



*For the Best*

# 2024 Catalogue





*For the Best*

# For the Best in Digital TV Antenna and Security Solutions

Matchmaster is the premium supplier and manufacturer of digital TV antenna systems for domestic and digital TV commercial applications.

Matchmaster products range from digital TV antennas to complex distribution systems including Fibre Optics, TV over CAT6 and IP TV into the future. Matchmaster also has a range of CCTV and security products perfectly suited to protecting residential and commercial premises.

Matchmaster specialize in Commercial distribution systems with design and engineering capabilities to suit every possible application. Matchmaster also provide technical support and are an endorsed trainer and are renown for delivering the best industry training program of its type.

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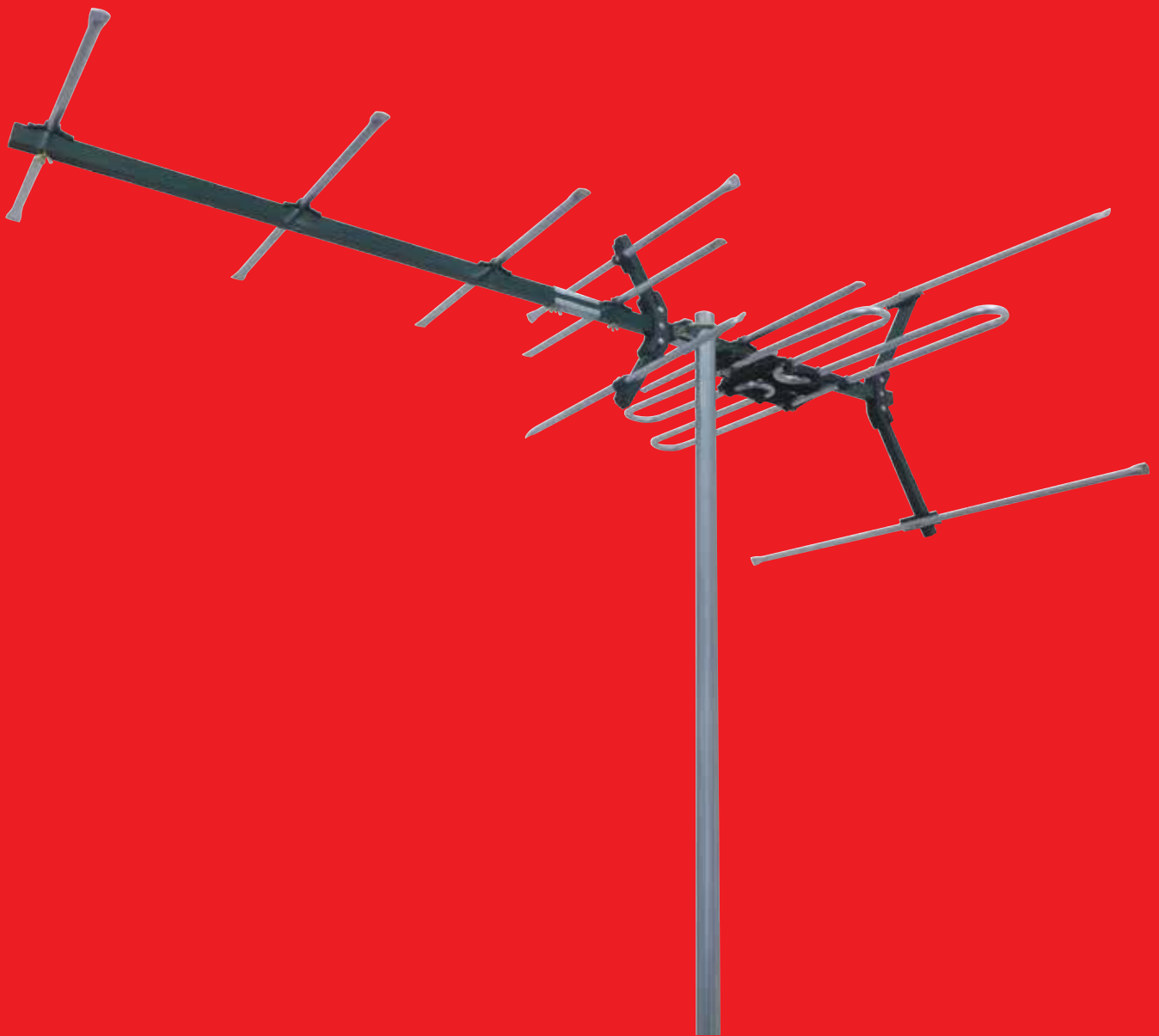
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# Digital TV Antenna

Product Catalogue



## Combination



### Digital TV Antenna VHF/UHF (6-12)(28-40) 21 Elements 01MM-DC21A

- » The best just got better! 01MM-DC21A comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Australian made
- » Receives channels 6-12 and 28-40
- » VHF diplexed to UHF section 25dB isolation for improved return loss
- » VHF elements 12.7mm diameter extruded aluminium tube for superior strength
- » 652MHz low pass filter > 40dB attenuation at 750MHz to eliminate 4G/5G (LTE) interference
- » Attractive packaging ideal for retail merchandising



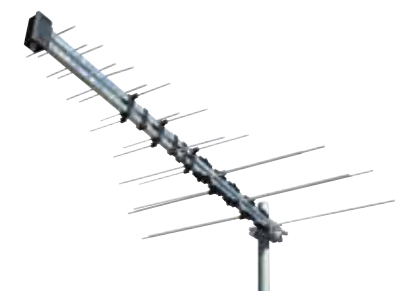
### Digital TV Antenna VHF/UHF (6-12)(28-51) 27 Elements 01MM-DG27

- » The best just got better! 01MM-DG27 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Australian made
- » Receives channels 6-12 and 28-51
- » VHF diplexed to UHF section 25dB isolation
- » VHF elements 12.7mm diameter extruded aluminium tube for superior strength
- » 694MHz low pass filter > 40dB attenuation at 750MHz to eliminate 4G/5G (LTE) interference
- » Attractive packaging ideal for retail merchandising



### Digital TV Antenna VHF/UHF (6-12)(28-51) 49 Elements 01MM-DG49

- » Australian made
- » Receives channels 6-12 and 28-46
- » VHF diplexed to UHF section 25dB isolation
- » VHF elements 12.7mm diameter extruded aluminium tube for superior strength
- » 694MHz low pass filter > 40dB attenuation at 750MHz to eliminate 4G/5G (LTE) interference
- » X type UHF antenna section high gain up to 13dBi

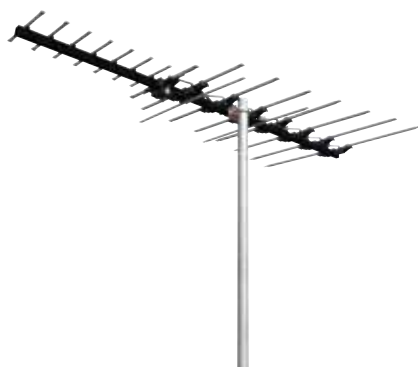


### Log Periodic Digital TV Antenna VHF/UHF (6-12)(28-51) 32 Elements 01MM-LP03F

- » Budget antenna for inner city applications
- » Wideband log periodic style
- » Receives channels 6-12 and 28-51
- » VHF elements 7.0mm extruded aluminium tube snap lock design
- » 'F' connector coax front feed on circuit board connection for superior return loss
- » Mounting clamp at the rear creates stub for improved VSWR



# Digital TV Antennas



## MAGNA Black High Gain 17 Element Hybrid Digital TV Antenna VHF/UHF (6-12)(28-40) with 50dB 4G/5G Filter

### O1MM-MB400

- » The best just got better! O1MM-MB400 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Featuring a newly designed black boom to help blend into today's modern builds
- » 4G/5G filtering built-in with up to 50dB rejection in 700MHz band
- » Fully assembled with snap out elements to save you on installation time
- » Typical 8dB VHF and 10dB UHF gain with 16-20dB front to back ratio and <2:1 VSWR
- » 12.7mm heavy-duty rolled elements for maximum strength and durability
- » Australian made for maximum quality, performance and reliability
- » Supersedes: O1MM-MAGNA25V



<b>50dB</b>	<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
FILTERING	READY		COMPATIBLE			



## Digital TV Antenna VHF/UHF (6-12)(28-46) 11 Elements

### O1MM-MD11

- » Australian made
- » Receives channels 6-12 and 28-46
- » Hybrid antenna to maximise gain for wanted channels
- » VHF elements 12.7mm diameter extruded aluminium tube for superior strength
- » 652MHz low pass filter > 40dB attenuation at 750MHz to eliminate 4G/5G (LTE) interference
- » Mounting clamp at the balance point avoids antenna sagging

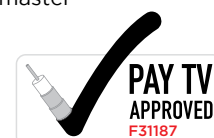
<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
READY		COMPATIBLE			



## Log Periodic Digital TV Antenna VHF/UHF (6-12)(28-46) 9 Elements

### O1MM-SA100

- » The best just got better! O1MM-SA100 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Australian made
- » Receives channels 6-12 and 28-46
- » Hybrid log periodic antenna to maximise gain for wanted channels
- » VHF elements 9.54mm diameter aluminium tube for metropolitan applications
- » 652MHz low pass filter > 40dB attenuation at 750MHz to eliminate 4G/5G (LTE) interference
- » Mounting clamp at the balance point avoids antenna sagging



<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
READY		COMPATIBLE			



# Digital TV Antennas



## Digital TV Marine and Caravan Omnidirectional Antenna VHF/UHF (6-12)(28-51)

### 01MM-SLO1

- » Suitable for caravan, marine and apartments
- » Receives channels 6-12 and 28-51
- » Omnidirectional amplified antenna 20dB gain
- » Fully encased plastic outer with stainless steel fittings to protect against corrosion
- » 694MHz low pass filter > 40dB attenuation at 750MHz to eliminate 4G/5G (LTE) interference

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



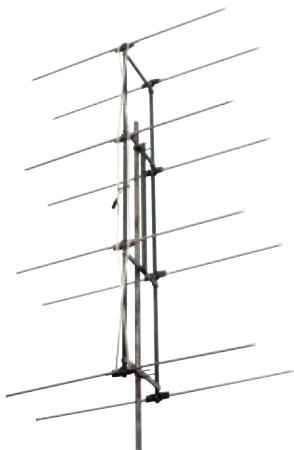
## Log Periodic Digital TV Antenna VHF/UHF (6-12)(28-40)

### 01MM-V8

- » Outer metro antenna
- » Receives channels 6-12 and 28-40
- » Snap lock design allows reduces space required in the van
- » VHF elements 9.54mm extruded aluminium tube snap lock design
- » 652MHz low pass filter > 40dB attenuation at 750MHz to eliminate 4G/5G (LTE) interference
- » Mounting clamp at the balance point avoids antenna sagging

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			

## VHF



## Phased Array Digital TV Antenna Vertical/Horizontal with Balun 16 Elements

### 03MM-BIGRAY

- » The best just got better! 03MM-BIGRAY comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 16 element VHF phased array antenna
- » Receives channels 6-12
- » Snap lock element construction
- » 12.7mm heavy-duty extruded elements for maximum strength and durability
- » 12.5dB Maximum gain
- » Compact packaging for space efficiency

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



# Digital TV Antennas



## Phased Array Digital TV Antenna VHF (6-12) Vertical/ Horizontal with Balun 8 Elements

### O3MM-LITTLEARRAY

- » The best just got better! O3MM-LITTLEARRAY comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 8 element VHF phased array antenna
- » Receives channels 6-12
- » Snap lock element construction
- » 12.7mm heavy-duty extruded elements for maximum strength and durability
- » 9.5dB maximum gain
- » Compact packaging for space efficiency



## High Gain Digital TV Antenna VHF (6-12) 8 Elements

### O3MM-DC21V

- » The best just got better! O3MM-DC21V comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 8 Element VHF G unit yagi antenna
- » Receives channels 6-12
- » 4G/5G LTE 652MHz low pass filter
- » 12.7mm heavy-duty extruded elements for maximum strength and durability
- » Snap lock design for fast installation



## Digital TV Antenna VHF (6-12) 4 Elements

- » The best just got better! Comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 4 element VHF yagi antenna
- » Receives channels 6-12
- » 4G/5G LTE 652MHz low pass filter
- » 12.7mm heavy-duty extruded elements for maximum strength and durability
- » 7.0dB maximum gain
- » Snap lock design for fast installation
- » Available in multiple configurations below

Product Code	Pack Size	Packaging Type
O3MM-DR3004	1	Box
O3MM-DR3004PB*	1	Bag

\*Pick up only



# Digital TV Antennas



## Digital TV Antenna VHF (6-12) 6 Elements

- » The best just got better! Comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 6 element VHF yagi antenna
- » Receives channels 6-12
- » 4G/5G LTE 652MHz low pass filter
- » 12.7mm heavy-duty extruded elements for maximum strength and durability
- » 8.1dB maximum gain
- » Snap lock design for fast installation
- » Available in multiple configurations below



Product Code	Pack Size	Packaging Type
03MM-DR3006	1	Box
03MM-DR3006P	5	Box
03MM-DR3006PB*	1	Bag

\*Pick up only



## Digital TV Antenna VHF (6-12) 10 Elements

### 03MM-DR3010

- » The best just got better! 03MM-DR3010 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 4 element VHF yagi antenna
- » Receives channels 6-12
- » 4G/5G LTE 652MHz low pass filter
- » 12.7mm heavy-duty extruded elements for maximum strength and durability
- » 7.0dB maximum gain
- » Snap lock design for fast installation



## Digital TV Antenna VHF (6-12) 18 Elements

### 03MM-DR3018

- » The best just got better! 03MM-DR3018 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 18 element VHF G unit yagi antenna
- » Receives channels 6-12
- » 4G/5G LTE 652MHz low pass filter
- » 12.7mm heavy-duty extruded elements for maximum strength and durability
- » 14.0dB maximum gain
- » Snap lock design for fast installation



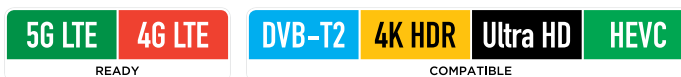
# Digital TV Antennas



## Log Periodic Digital TV Antenna VHF (6-12) 8 Elements

### O3MM-LP03VF

- » 8 element VHF log periodic antenna
- » Receives channels 6-12
- » 4G/5G LTE 652MHz low pass filter
- » VHF elements 7.0mm extruded aluminium tube snap lock design
- » 6.0dB maximum gain
- » Mounting clamp at the rear creates stub for improved VSWR



## High Gain Digital TV Antenna FM + VHF (6-12) with 80dB 4G/5G Filter

### O3MM-M580

- » The best just got better! O3MM-M580 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Hermetically sealed balun to prevent water and dust ingress
- » 4G/5G filtering built in with up to 80dB rejection in the 700MHz band
- » Fully assembled ready to install to save on installation time
- » Typical 8dB VHF gain with 12dB front to back ratio and <2:1 VSWR
- » 12.7mm heavy-duty extruded elements for maximum strength and durability



## High Gain Digital TV Antenna FM + VHF (6-12) with 80dB 4G/5G Filter (Vertical Only)

### O3MM-M580V

- » The best just got better! O3MM-M580V comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Hermetically sealed balun to prevent water and dust ingress
- » 4G/5G filtering built in with up to 80dB rejection in the 700MHz band
- » Fully assembled ready to install to save on installation time
- » Typical 8dB VHF gain with 12dB front to back ratio and <2:1 VSWR
- » 12.7mm heavy-duty extruded elements for maximum strength and durability



# Digital TV Antennas



## MAGNA Black High Gain 7 Element Log Periodic Digital TV Antenna VHF (6-12) with 50dB 4G/5G Filter (5 Pack) 03MM-MB200



- » The best just got better! 03MM-MB200 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Featuring a newly designed black boom to help blend into today's modern builds
- » 4G/5G filtering built in with up to 50dB rejection in the 700MHz band
- » Centre mounted for perfect balance. Fully assembled with snap out elements to save on installation time
- » 8dB VHF gain with 14dB front to back ratio and <2:1 VSWR
- » 12.7mm heavy-duty rolled elements for maximum strength and durability
- » Australian made for maximum quality, performance and reliability



<b>50dB</b>	<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
FILTERING	READY		COMPATIBLE			



## MAGNA Black High Gain 10 Element Hybrid Digital TV Antenna VHF (6-12) with 50dB 4G/5G Filter 03MM-MB300



- » The best just got better! 03MM-MB300 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Featuring a newly designed black boom to help blend into today's modern builds
- » 4G/5G filtering built-in with up to 50dB rejection in 700MHz band
- » Fully assembled with snap out elements to save you on installation time
- » Typical 9dB VHF gain with 18dB front to back ratio and <2:1 VSWR
- » 12.7mm heavy-duty rolled elements for maximum strength and durability
- » Australian made for maximum quality, performance and reliability
- » Supersedes: 01MM-MAGNA25V



<b>50dB</b>	<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
FILTERING	READY		COMPATIBLE			



## Log Periodic Digital TV Antenna VHF (6-12) 5 Elements 03MM-SA200



- » The best just got better! 03MM-SA200 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » Australian made
- » Hybrid log periodic antenna to maximise gain for wanted channels
- » VHF elements 9.54mm diameter aluminium tube
- » 652MHz low pass filter > 40dB attenuation at 750MHz to eliminate 4G/5G (LTE) interference
- » Mounting clamp avoids antenna sag



<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
READY		COMPATIBLE			



## UHF



### Digital TV Antenna UHF (28-39) with Band B and C 4G/5G Filter (5 Pack)

#### O2MM-BC500P

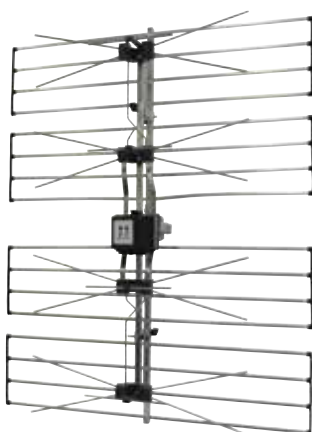
- » Snap lock tri-element corner reflector for improved front to back ratio whilst eliminating noise from multi-path reflections
- » Tilt bracket assembled and attached to the boom of the antenna for faster assembly
- » 25mm x 19mm heavy-duty boom for long life and durability
- » Convenient 5 pack in a compact design for space efficiency on the shelf or in the contractors van
- » Designed with maximum gain for bands B and C channels 28-39
- » 50dB 4G/5G filter at 750MHz now standard to eliminate 4G tower interference for perfect reception



### Digital TV Antenna UHF (28-51) 91 Elements

#### O2MM-DG91

- » 694MHz low pass 4G/5G LTE filter > 30dB at 750 MHz
- » 91 element X type element
- » Australian made
- » 16dB maximum gain
- » Receives UHF Channels 28-51



### Phased Array 'F' Type Digital TV Antenna UHF (28-51)

- » 694MHz low pass 4G/5G LTE filter
- » Equivalent 40 element phased array style
- » Made in Germany
- » 13.5dB maximum gain
- » Receives UHF channels 28-51
- » Available in multiple configurations below

Product Code	Pack Size
O2MM-EE06A-1	1
O2MM-EE06A	2



# Digital TV Antennas



## Digital TV Antenna with 4G/5G Filter UHF (28-51) 10 Elements

- » The best just got better! Comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 694MHz low pass 4G/5G LTE filter, 50dB filtering at 750-820MHz
- » Ten element Yagi style
- » Australian Made
- » 11.5dB maximum gain
- » Receives UHF Channels 28-51
- » Available in multiple configurations below



Product Code	Pack Size
O2MM-GX400	1
O2MM-GX400P	5



<b>50dB</b> FILTERING	<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
	READY		COMPATIBLE			



## Digital TV Antenna with 4G/5G Filter and Snap Lock Corner Screen UHF (28-51) 10 Elements (5 Pack)

### O2MM-GX400PS

- » The best just got better! O2MM-GX400PS comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » High gain, rear-mounted antenna with snap-lock corner screen
- » 694MHz low pass 4G/5G LTE filter, 50dB filtering at 750-820MHz
- » Ten element Yagi style
- » Australian made
- » 11.5dB maximum gain
- » Receives UHF channels 28-51



<b>50dB</b> FILTERING	<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
	READY		COMPATIBLE			



## Digital TV Antenna with 4G/5G Filter UHF (28-51) 18 Elements

### O2MM-GX500

- » The best just got better! O2MM-GX500 comes with the Matchmaster Gold Lifetime Manufacturer Warranty
- » 694MHz low pass 4G/5G LTE filter > 50dB at 750 MHz
- » 18 element Yagi style
- » Australian made
- » 14dB maximum gain
- » Receives UHF channels 28-51



<b>50dB</b> FILTERING	<b>5G LTE</b>	<b>4G LTE</b>	<b>DVB-T2</b>	<b>4K HDR</b>	<b>Ultra HD</b>	<b>HEVC</b>
	READY		COMPATIBLE			

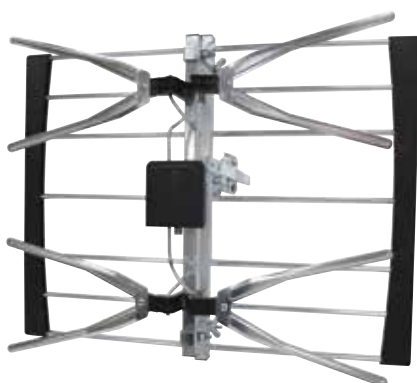


## Log Periodic UHF (28-51) Digital TV Antenna

### O2MM-LP45F

- » Easy to install - 7mm foldable elements
- » UHF channels 28-51
- » >30dB filtering @ 750MHz
- » 'F' type log periodic antenna
- » 7.5dB gain suitable for band 4 / 5 areas
- » Can be used in vertical or horizontal polarised areas

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			

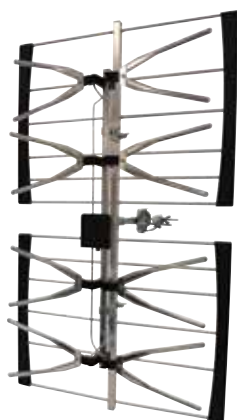


## Phased Array Digital TV Antenna UHF (28-51)

### O2MM-MDU18

- » New Dacromet finish to all clamping components for superior corrosion resistance
- » New thicker aluminium tube walls for superior durability
- » New T-bracket in heavy-duty aluminium alloy
- » 694MHz low pass 4G/5G LTE filter > 30dB at 750 MHz
- » Compact design for discrete installations
- » 8dB maximum gain
- » Receives UHF channels 28-51

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Phased Array Digital TV Antenna UHF (28-51)

### O2MM-MDU36

- » New Dacromet finish to all clamping components for superior corrosion resistance
- » New thicker aluminium tube walls for superior durability
- » New T-bracket in heavy-duty aluminium alloy
- » 694MHz low pass 4G/5G LTE filter > 30dB at 750 MHz
- » High gain phased array for optimum reception
- » 12dB maximum gain
- » Receives UHF channels 28-51

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## UHF Phased Array Digital TV Antenna (28-51) 50dB Shielded 4G/5G Filter

### O2MM-MDU50B

- » Featuring a newly designed black rear screen and mounting assembly to help blend into today's modern builds
- » Dacromet finish to all clamping components for superior corrosion resistance with new thicker aluminium tube walls for superior durability
- » New T-bracket in heavy-duty aluminium alloy
- » 4G/5G - 50dB screened filter
- » Receives UHF Channels 28-51
- » Easy to assemble with a vertical mounting option
- » X elements - one piece for anti-corrosion

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			

## FM



### FM Antenna (88-108MHz) with VHF/UHF Input/Combiner O3MM-1EFM

- » Ring type FM dipole antenna
- » Receives FM 88-108MHz
- » 4G/5G LTE 694MHz low pass filter
- » Incorporates FM/ UHF band 3 diplexer
- » Quick mounting clamp for fast installation

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



### FM Antenna (88-108MHz) with Balun 3 Elements O3MM-FM3

- » 3 element FM antenna
- » Receives FM 88-108MHz
- » 12.7mm heavy-duty extruded elements for maximum strength and durability
- » 5.0dB maximum gain
- » Snap lock design for fast installation

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Indoor



### Indoor Digital TV Antenna VHF/UHF (6-12)(28-51) O1MM-CA01

- » Great performer
- » Receives channels 6-12 and 28-51
- » Excellent retail packaging for display purposes
- » UHF ring dipole combined with VHF rabbit ears for flexible positioning to receive signals

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



### Indoor Digital TV Antenna VHF/UHF (6-12)(28-51) O1MM-CA02

- » Receives channels 6-12 and 28-51
- » Excellent retail packaging for display purposes
- » Attractive design enables antenna to fit with most décors
- » 694MHz low pass filter to reduce 4G/5G (LTE) interference

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			

## Accessories



### TV and Satellite Selector Switch

#### O5MM-SW90

- » SW90 can switch between different RF sources, including satellite and CATV frequencies
- » High isolation of up to 90dB port to port to eliminate interference from the second source
- » Power passing to allow voltage to pass through for upstream or downstream active devices
- » 'F' type connections for a secure connection



### 'F' Type Balun with Wires

#### O5MM-TV4F

- » Ideal for FM antennas
- » Converts two wires into 'F' type
- » Black compact design
- » Weatherproof rubber boot



*For the Best*



## As Discreet as the Tawny Frogmouth Owl

You may also need a  
**11MM-TRIPOD-MAU**  
See page 85





# Coaxial Cable

Product Catalogue



# Coaxial Cable

## RG59



### 305m RG59 Quad-shield Coaxial Cable Reel 06MM-E59Q

- » An RG59 metre marked cable with quad shielding
- » Sold in a 305 metre reel
- » Suitable for digital TV



### 100m RG59 A/V-SDI Coaxial Cable Reel 06MM-SDI-100M

- » An RG59 metre marked cable rated at 75 Ohms
- » Has TC braiding
- » Also suitable for home theatre and commercial AV distribution
- » 3G-SDI rated

## RG6



### 305m RG6 Quad-shield Coaxial Cable Reel 06MM-E6Q

- » Foxtel (F30440) and Optus (4868) approved
- » Meter marked cable for ease of installation
- » Sold as 305, 100, 50 and 30-metre reels, as well as a 305m dispenser box
- » Suitable and approved for pay and digital TV
- » RG6 3GHz rated quad-shield 75 Ohm coaxial cable
- » >105dB of screening to 1000MHz



### 30m RG6 Quad-shield Coaxial Cable Reel 06MM-E6Q-30M

- » Foxtel (F30440) and Optus (4868) approved
- » Meter marked cable for ease of installation
- » Sold as 305, 100, 50 and 30-metre reels, as well as a 305m dispenser box
- » Suitable and approved for pay and digital TV
- » RG6 3GHz rated quad-shield 75 Ohm coaxial cable
- » >105dB of screening to 1000MHz



### 50m RG6 Quad-shield Coaxial Cable Reel 06MM-E6Q-50M

- » Foxtel (F30440) and Optus (4868) approved
- » Meter marked cable for ease of installation
- » Sold as 305, 100, 50 and 30-metre reels, as well as a 305m dispenser box
- » Suitable and approved for pay and digital TV
- » RG6 3GHz rated quad-shield 75 Ohm coaxial cable
- » >105dB of screening to 1000MHz





# Coaxial Cable



## 100m RG6 Quad-shield Coaxial Cable Reel **O6MM-E6Q-100M**

- » Foxtel (F30440) and Optus (4868) approved
- » Meter marked cable for ease of installation
- » Sold as 305, 100, 50 and 30-metre reels, as well as a 305m dispenser box
- » Suitable and approved for pay and digital TV
- » RG6 3GHz rated quad-shield 75 Ohm coaxial cable
- » >105dB of screening to 1000MHz



## 305m RG6 Quad-shield Coaxial Cable Dispenser Box **O6MM-E6QB**

- » Foxtel (F30440) and Optus (4868) approved
- » Meter marked cable for ease of installation
- » Sold as 305, 100, 50 and 30-metre reels, as well as a 305m dispenser box
- » Suitable and approved for pay and digital TV
- » RG6 3GHz rated quad-shield 75 Ohm coaxial cable
- » >105dB of screening to 1000MHz



## 305m RG6 Flooded Quad-shield Coaxial Cable Reel **O6MM-E6QF**

- » An RG6 metre marked cable with quad-shield and flooded
- » Gel filled cable designed for underground use
- » Suitable and approved for pay and digital TV
- » Sold in a 305 metre reel
- » Foxtel (F30449) approved



## 305m RG6 Low Smoke Zero Halogen Quad-shield Coaxial Cable Reel **O6MM-E6QLSZH**

- » Foxtel approved (F31190)
- » An RG6 metre marked low smoke – zero halogen cable with quad shielding
- » Developed due to concerns about the fire hazards of the insulation and jacketing material
- » Meets requirements for smoke index, acid gas generation, halogen content, and toxicity index
- » Sold in a 305 metre reel



## 305m RG6 Messengered Quad-shield Coaxial Cable Reel **O6MM-E6QM**

- » An RG6 metre marked cable with quadshield messengered
- » Sold in a 305 metre reel
- » Suitable and approved for pay and digital TV
- » Foxtel (F30448) and Optus (4867) approved
- » Catenary wire for overhead installation



# Coaxial Cable



## 150m RG6 Siamese Quad-shield Coaxial Cable Reel

**06MM-E6QS**

- » An RG6 metre marked cable with quad-shield and is siamese
- » Sold in a 150 metre reel
- » Suitable and approved for pay and digital TV
- » Foxtel (F30447) and Optus (4868) approved



## 305m RG6 White Quad-shield Coaxial Cable Reel

**06MM-E6QWH**

- » An RG6 metre marked cable with quad shielding white in colour
- » Sold in a 305 metre reel
- » Suitable and approved for pay and digital TV
- » Foxtel (F30866) and Optus (4868) approved
- » Suitable for white fly leads to blend in



## 305m RG6 Tri-shield Coaxial Cable Reel

**06MM-E6T**

- » An RG6 metre marked cable with tri-shielding
- » Sold in a 305 metre reel
- » Suitable and approved for pay and digital TV
- » Foxtel (F30442) and Telstra (739/28) approved



## 305m RG6 Flooded Tri-shield Coaxial Cable Reel

**06MM-E6TF**

- » An RG6 metre marked cable with tri-shielding and flooded
- » Sold in a 305 metre reel
- » Suitable and approved for pay and digital TV
- » Foxtel (F30442) and Telstra (739/32) approved



## 150m RG6 Siamese Tri-shield Coaxial Cable Reel

**06MM-E6TS**

- » An RG6 metre marked cable with tri-shielding and is siamese
- » Sold in a 150 metre reel
- » Suitable and approved for pay and digital TV
- » Foxtel (F30441) and Optus (4868) approved



## 305m RG6 Free-to-Air Quad-shield Coaxial Cable Dispenser Box

**06SF-S6Q**

- » An RG6 metre marked cable rated at 75 Ohms with quadshielding
- » Sold in a 305 metre all new red box
- » Suitable for digital TV

## RG11



### 305m RG11 Free-to-Air Quad-shield Coaxial Cable Dispenser Box

#### O6MM-E11Q

- » An RG11 metre marked cable with quad shielding
- » Suitable and approved for pay and digital TV
- » Sold in a 305 metre reel
- » Foxtel (F30450) and Telstra (739/8) approved



### 305m RG11 Flooded Quad-shield Coaxial Cable Reel

#### O6MM-E11QF

- » An RG11 metre marked cable with quad-shield and flooded
- » Gel filled cable designed for underground use
- » Suitable and approved for pay and digital TV
- » Sold in a 305 metre reel
- » Foxtel (F30445) and Telstra (739/10) approved



### 305m RG11 Low Smoke Zero Halogen Quad-shield Coaxial Cable Reel

#### O6MM-E11QLSZH

- » Foxtel approved (F31191)
- » An RG11 metre marked low smoke – zero halogen cable with quad shielding
- » Developed due to concerns about the fire hazards of the insulation and jacketing material
- » Meets requirements for smoke index, acid gas generation, halogen content, and toxicity index
- » Sold in a 305 metre reel



### 305m RG11 Messengered Quad-shield Coaxial Cable Reel

#### O6MM-E11QM

- » An RG11 metre marked cable with quad-shield messengered
- » Suitable and approved for pay and digital TV
- » Sold in a 305 metre reel
- » Foxtel (F30451), Optus (4314) and Telstra (739/13) approved
- » Catenary wire for overhead installation



## .5 Inch



### 750m .500" Flooded Coaxial Cable Reel

#### 16MM-P3500F

- » 0.500" metre marked cable with quad shielding and flooding
- » Gel filled cable designed for underground use
- » Suitable for cable pay and digital TV distribution
- » Sold in a 750 metre reel
- » PE Jacket

# Coaxial Cable



## 750m .500" Unflooded Coaxial Cable Reel 16MM-P3500U

- » 0.500" metre marked cable with quad shielding unflooded
- » Unflooded cable designed for indoor and above ground use
- » Suitable for cable pay and digital TV distribution
- » Sold in a 750 metre reel
- » PE jacket

## Accessories



## TV and Satellite Selector Switch 05MM-SW90

- » SW90 can switch between different RF sources, including satellite and CATV frequencies
- » Isolation is more than 90 dB to eliminate interference from the second source
- » Power passing to allow voltage to be upstream or downstream devices
- » 'F' Type Connections for ease of connection



## 6-8mm Cable Clip (100 Pack) 11MM-TC6-8/100

- » Round cable clip
- » Ideal for telephone, coaxial and data cable
- » Tough and flexible
- » Discrete design

# Connectors and Tools

Product Catalogue



## Adaptors



### 'F' Male to IEC (PAL) Male Adaptor (20 Pack)

#### 08MM-A1

- » Used to convert 'F' type female connectors to IEC (PAL) male
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



### 'F' Female to IEC (PAL) Male Adaptor

- » Used to convert 'F' type male connectors to IEC (PAL) male
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Available in multiple configurations below

Product Code	Pack Size
DA-A22	2
DA-A2H	10
08MM-A2	20



### 'F' Male to IEC (PAL) Female Adaptor

- » Used to convert 'F' type female connectors to IEC (PAL) female
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Available in multiple configurations below

Product Code	Pack Size
DA-A32	2
DA-A3H	10
08MM-A3	20



### 'F' Female to IEC (PAL) Female Adaptor (20 Pack)

#### 08MM-A4

- » Used to convert 'F' type male connectors to IEC (PAL) female
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **'F' Female to RCA Male Adaptor (10 Pack)**

### **O8MM-A6**

- » Used to convert 'F' type male connectors to RCA male
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **'F' Male to 'F' Male Adaptor (20 Pack)**

### **O8MM-A7**

- » Used to convert 'F' type female connectors to 'F' type male or joining two 'F' type female connections
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **RCA Female to 'F' Female Adaptor (10 Pack)**

### **O8MM-A8**

- » Used to convert 'F' type male connectors to RCA female connections
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **RCA Female to 'F' Male Adaptor (10 Pack)**

### **O8MM-A9**

- » Used to convert 'F' type female connectors to RCA female connections
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **'F' Male to 'F' Female Elbow Adaptor (10 Pack)**

### **O8MM-A10**

- » Used to adapt 'F' type female connectors by 90 degrees
- » Perfect to use behind TV cabinets and wall-mounted TVs to connect to wall plates in tight spaces
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Telstra approved



# Connectors and Tools



## Adaptor 'F' Male to 'F' Female Elbow 3GHz

### O8MM-A10-3G

- » Ideal to convert Matchmaster's range of 'F' type connectors
- » Suitable for satellite frequencies to 3GHz
- » Foxtel (F30573) approved
- » 90 degree elbow suitable for sharp bends
- » No tools required
- » All metal body, durable composition



## 'F' Female to 'F' Male Push-On Adaptor (10 Pack)

### O8MM-A11

- » Used to quick-connect 'F' type female connectors by simply pushing together
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Suitable for use to 1000MHz



## T Piece 3 Way 'F' Type Female Adaptor (5 Pack)

### O8MM-A12

- » The design allows signal splitting to two devices or can be used to create RF stub filters
- » A handy device to have on hand to solve your interconnection problems
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## 'F' Female to IEC Male Right Angle Adaptor

- » Used to adapt 'F' type male connections to IEC (PAL) male with 90-degree bend radius
- » Perfect to use behind TV cabinets and wall-mounted TVs to connect to wall plates in tight spaces
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Available in multiple configurations below

Product Code	Pack Size
DA-A14H2	2
O8MM-A14-5P	5



## Joiner 180° 'F' Type Female to 'F' Type Female

### O8MM-A15

- » Used to adapt 'F' type male connectors by 180 degrees
- » Perfect to use in situations where there is restricted space for cable bend radius
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability





## IEC (PAL) Female to BNC Male Adaptor

### O8MM-B1

- » Used to convert BNC female connectors to IEC (PAL) female
- » BNC male with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## 'F' Female to BNC Male Adaptor (20 Pack)

### O8MM-B2

- » Used to convert BNC female connectors to 'F' female
- » BNC male with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## 'F' Male to BNC Male Adaptor (10 Pack)

### O8MM-B3

- » Used to convert BNC female connectors to 'F' male
- » BNC male with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## RCA Female to BNC Male Adaptor (10 Pack)

### O8MM-B4

- » Used to convert BNC female to any RCA composite video (yellow) or stereo audio (white and red)
- » BNC male with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## 'F' Male to BNC Female Adaptor (10 Pack)

### O8MM-B5

- » Used to convert BNC male connectors to 'F' male
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability

# Connectors and Tools



## 'F' Female to BNC Female Adaptor (5 Pack)

### 08MM-B6

- » Used to convert BNC male connectors to 'F' female
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## RCA Male to BNC Female Adaptor (10 Pack)

### 08MM-B7

- » Used to convert BNC male to an RCA male connector
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## BNC Female to IEC Male Adaptor (10 Pack)

### 08MM-B8

- » Used to convert BNC male connectors to IEC (PAL) male
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## BNC Female to BNC Female Adaptor (10 Pack)

### 08MM-B10

- » Used to link to BNC male connectors or to change gender from male to female BNC
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## BNC Male to BNC Female Right Angle Adaptor

### 08MM-B13

- » Used to adapt BNC connections by 90 degrees in tight spaces for cable management
- » BNC male and female with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## 'F' Type Male to 'F' Type Push-on Adaptor (10 Pack)

### 18MM-DV49A

- » Used to quick-connect 'F' type female connectors and quick push together joining of taps and multiswitches
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Suitable for use to 3000MHz
- » Foxtel approved (F30082)



## 'F' Female to 'F' Female 3GHz Adaptor (2 Pack)

- » Used to join two coaxial cables with 'F' type fittings or create an 'F' type outlet
- » Matching nuts and washers included
- » 3GHz rated for best VSWR and return loss
- » No tools required
- » Long-life nickel-plated brass construction
- » Foxtel (F20465) and Telstra (739/107) approved
- » Available in multiple configurations below



Product Code	Pack Size
DA-F813G2	2
18MM-F813G	20



## 'F' Female to KS Port Adaptor

### 18MM-KSFA

- » 5/8" KS interface to 'F' type series female adaptor made from 6262 aluminium
- » Greater than 16dB return loss at 1GHz
- » Operating frequency range DC-1GHz
- » Used to adapt amplifier and CATV outdoor taps and splitters to 'F' type connections
- » 75 Ohm impedance
- » Foxtel (F30163), Telstra (739/112) approved



## 'F' Push-on to 'F' Push-on 5-3000MHz Adaptor

### 18MM-QC01

- » 'F' type quick connect push on connector
- » Nickel-plated brass body for long-life corrosion resistance
- » Easy, quick connection of multiswitch and tap systems
- » Return loss >20dB @ 3000MHz
- » Foxtel approved (F30926)



## 'F' Female to 'F' Female Adaptor with Nuts and Washers (20 Pack)

### DA-A5FNH

- » Used to join two coaxial cables with 'F' type fittings or create an 'F' type outlet
- » Matching nuts and washers included
- » 1GHz rated for use in terrestrial networks
- » No tools required
- » Long-life nickel-plated brass construction
- » Convenient 20 pack

# Connectors and Tools



## 5 Piece TV Connector and Adaptor Pack

### DA-AP06

- » 1x terminator 'F' type 75 Ohm
- » 1x adaptor 'F' female to IEC (PAL) male
- » 1x adaptor 'F' male to IEC (PAL) female
- » 1x adaptor 'F' female to IEC (PAL) female
- » 1x adaptor 'F' female to female plus nut and washer
- » Ideal mix and match combination for multiple solutions

## BNC



### IEC (PAL) Female to BNC Male Adaptor

#### O8MM-B1

- » Used to convert BNC female connectors to IEC (PAL) female
- » BNC male with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



### 'F' Female to BNC Male Adaptor (20 Pack)

#### O8MM-B2

- » Used to convert BNC female connectors to 'F' female
- » BNC male with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



### 'F' Male to BNC Male Adaptor (10 Pack)

#### O8MM-B3

- » Used to convert BNC female connectors to 'F' male
- » BNC male with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



### RCA Female to BNC Male Adaptor (10 Pack)

#### O8MM-B4

- » Used to convert BNC female to any RCA composite video (yellow) or stereo audio (white and red)
- » BNC male with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **'F' Male to BNC Female Adaptor (10 Pack)**

### **08MM-B5**

- » Used to convert BNC male connectors to 'F' male
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **'F' Female to BNC Female Adaptor (5 Pack)**

### **08MM-B6**

- » Used to convert BNC male connectors to 'F' female
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **RCA Male to BNC Female Adaptor (10 Pack)**

### **08MM-B7**

- » Used to convert BNC male to an RCA male connector
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **BNC Female to IEC Male Adaptor (10 Pack)**

### **08MM-B8**

- » Used to convert BNC male connectors to IEC (PAL) male
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## **RG6 BNC Crimp Connector (10 Pack)**

### **08MM-B9**

- » Crimp outer, solder centre pin BNC male connector for RG6 75 Ohm cables
- » BNC male with twist lock for durability and secure connection
- » Used with Matchmaster crimping tool (08MM-CT611)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



# Connectors and Tools



## BNC Female to BNC Female Adaptor (10 Pack)

### 08MM-B10

- » Used to link to BNC male connectors or to change gender from male to female BNC
- » BNC female with lock pins for securing to BNC male connectors and adaptors
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## BNC Male RG59 Compression Connector (50 Pack)

### 08MM-B11

- » Professional grade Cabelcon compression BNC male connector for RG59 75 Ohm cables from DC-3GHz
- » BNC male with twist lock for durability and secure connection
- » Used with Matchmaster compression tool (08MM-CT07)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Suitable for 3G SDI



## BNC Male RG6 Compression Connector (50 Pack)

### 08MM-B12

- » Professional grade Cabelcon compression BNC male connector for RG6 75 Ohm cables from DC-3GHz
- » BNC male with twist lock for durability and secure connection
- » Used with Matchmaster compression tool (08MM-CT07)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » Suitable for 3G SDI



## BNC Male to BNC Female Right Angle Adaptor

### 08MM-B13

- » Used to adapt BNC connections by 90 degrees in tight spaces for cable management
- » BNC male and female with twist lock for durability and secure connection
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability

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## Accessories



## 'F' Type Nut with Washer (100 Pack)

### 08MM-FN

- » Suitable for use with 18MM-F813G adaptor and DA-A5FNH 'F' female adaptors
- » Used for a 3/8" UNEF thread
- » Used to secure 'F' female adaptors into wall plates and bulkheads or patch panels



## 'F' Type DC Isolator

### 18MM-DB1

- » In-line DC cutter for 75 Ohm RF networks
- » Passes frequency range of 5-3000Mhz
- » Low insert loss 0.2-0.5dB
- » Cuts voltage up to 50V DC
- » Return loss >20dB
- » Foxtel approved (F10456)



## Terminators



## 'F' Type 75 Ohm Terminator (10 Pack)

### 08MM-T1

- » 75 Ohm 'F' type male terminator suitable for use on multiswitch, tap and splitter RF output ports where the voltage does not exist.
- » Nickel-plated brass body for long life.
- » Used to terminate output ports and cable ends to help prevent signal return which causes additional noise in your RF network.
- » Suitable for use to 2500MHz



## 75 Ohm DC Blocking Terminator (10 Pack)

### 18MM-DV25

- » 75 Ohm 'F' type male terminator with DC separation suitable for use in multiswitch and tap systems with DC line voltage
- » Nickel-plated brass body for long life
- » Used to terminate tap and splitter throughputs to help prevent signal return which causes additional noise in your RF network.
- » Suitable for use to 3000MHz
- » Foxtel approved (F30083)



## 75 Ohm KS Port Terminator (25 Pack)

### 18MM-T2

- » 75 Ohm male housing terminator for use on CATV hard-line taps and splitters where ports may have voltage present
- » 1.0 KV universal male terminator for 5/8-24 entry ports
- » Blocks 60 cycle AC and terminates RF signals
- » Integrated O-ring for waterproof connections
- » Suitable for 5MHz to 1300MHz frequency range
- » Operating Voltage Rating 90 Volts (@ 60 Hz continuous AC)



## 75 Ohm KS Female Terminator

### 18MM-T3

- » 75 Ohm female housing terminator for use on CATV hard-line taps and splitters where ports may have voltage present
- » 1.0 KV universal female terminator for 5/8-24 entry ports
- » Blocks 60 cycle AC and terminates RF signals
- » Integrated O-ring for waterproof connections
- » Suitable for 5MHz to 1300MHz frequency range
- » Operating Voltage Rating 90 Volts (@ 60 Hz continuous AC)

# Connectors and Tools



## 75 Ohm Port Terminator (10 Pack)

### 18MM-T3-N

- » 75 Ohm male housing terminator for use on CATV hard-line taps and splitters where ports may have voltage present
- » Nitin-6 plated 1/2 watt rated male terminator for PG11M-R75 entry ports
- » Blocks 60 cycle AC and terminates RF signals
- » Integrated O-ring for waterproof connections
- » Suitable for 0.3MHz to 3000MHz frequency range
- » Screening Attenuation(CoMeT) >105 dB @ 1000-3000MHz and >120 dB @ 30-1000MHz

## RG59 Compression Connectors



## BNC Male RG59 Compression Connector (50 Pack)

### 08MM-B11

- » Professional grade Cabelcon compression BNC male connector for RG59 75 Ohm cables from DC-3GHz
- » BNC male with twist lock for durability and secure connection
- » Used with Matchmaster compression tool (08MM-CT07)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Suitable for 3G SDI



## RG59 IEC (PAL) Male Compression Connector (25 Pack)

### 08MM-HD59PM

- » Professional grade compression IEC (PAL) male connector for RG59 75 Ohm cables
- » Used with Matchmaster compression tool (08MM-CT07)
- » Purple visible colour band to help distinguish connector type
- » Long-life, corrosion-proof body
- » Perfect for making high quality RG59 TV fly leads



## RG59 SDI/RCA Compression Connector (25 Pack)

### 08MM-HD59R

- » Professional grade compression SDI/RCA male connector for RG59 75 Ohm cables
- » Used with Matchmaster compression tool (08MM-CT07)
- » Multiple visible colour bands to help distinguish lead ends
- » Long-life, corrosion-proof body
- » Perfect for making high-quality custom made SDI and RCA cables



## RG59 Quick Mount Universal Compression Connector (100 Pack)

### 08MM-QM59

- » RG59 Quick Mount technology - No need to pull back braid or remove the foil sheath-like traditional connector
- » Frequency range 0.3 - 3000 MHz
- » Just strip the cable, place it on the connector and compress
- » The heavy-duty coaxial cable compression feature
- » Used with Matchmaster compression tools, 08MM-CT01S and 08MM-CT07
- » Simple and easy to use



## RG6 Compression Connectors



### BNC Male RG6 Compression Connector (50 Pack)

#### O8MM-B12

- » Professional grade Cabelcon compression BNC male connector for RG6 75 Ohm cables from DC-3GHz
- » BNC male with twist lock for durability and secure connection
- » Used with Matchmaster compression tool (O8MM-CT07)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » Suitable for 3G SDI



### RG6 'F' Push-On Compression Connector (100 Pack)

#### O8MM-CX3FSC

- » Used to quick connect to 'F' type female connectors by simply pushing on
- » Used with Matchmaster compression tool (O8MM-CT07)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Suitable for use to 3000MHz



### RG6 'F' Type Compression Connector (50 Pack)

#### O8MM-EX6XLG

- » Suitable for RG6 coaxial cable
- » Used with Matchmaster compression tool (O8MM-CT01)
- » High quality nickel plated finish
- » Heavy duty coaxial cable compression feature
- » Telstra approved



### Connector PAL Female Compression For RG6 Quad Cable (25 Pack)

#### O8MM-HD6PF

- » Professional grade compression IEC (PAL) female connector for RG6 75 Ohm cables
- » Used with Matchmaster compression tool (O8MM-CT07)
- » Blue visible colour band to help distinguish connector type
- » Long life corrosion proof body
- » Perfect for making high-quality RG6 fly leads



### RG6 Quick Mount Universal Compression Connector (100 Pack)

#### O8MM-QM06

- » Wideband operating frequency range 0.3 - 3000 MHz
- » No need to pull back the braid or remove the foil sheath-like traditional connector
- » Just strip the cable, place it on the connector and compress
- » Used with Matchmaster compression tools (O8MM-CT01S & O8MM-CT07)
- » Integrated O-ring to create a watertight seal to prevent any unwanted ingress
- » Perfect for use in all CATV and satellite networks

# Connectors and Tools



## RG6 Quick Mount Short Compression Connector (100 Pack) 08MM-QM06S

- » Frequency range 0.3 - 3000 MHz
- » Short connector, less than 22mm long when compressed
- » No need to pull back braid or remove the foil sheath like traditional connector
- » Just strip cable, place on connector and compress
- » Used with Matchmaster compression tool (08MM-CT01S, 08MM-CT06 & 08MM-CT07)



## RG6 PAL Female Compression Connector (25 Pack) 18MM-CX3PF

- » Professional grade compression IEC (PAL) female connector for RG6 75 Ohm cables.
- » Used with Matchmaster compression tool (08MM-CT07)
- » Type and stripping dimensions are stamped on the body for safe identification and measuring on location
- » Long-life, corrosion-proof body
- » Perfect for making high-quality RG6 fly leads



## RG6 PAL Male Compression Connector (25 Pack) 18MM-CX3PM

- » Professional grade compression IEC (PAL) male connector for RG6 75 Ohm cables
- » Used with Matchmaster compression tool (08MM-CT07)
- » Type and stripping dimensions are stamped on the body for safe identification and measuring on location
- » Long-life, corrosion-proof body
- » Perfect for making high-quality RG6 fly leads



## Double Bubble® Connector for RG6 Foxtel Approved Quad and Tri-Shield Cables (50 Pack) 18MM-DB6F

- » Foxtel approved (F31137) RG6 compression connector
- » One piece, double bubble® compression connector suited for use with our 18MM-DBCT compression tool
- » Embedded O-ring to prevent water and dust ingress
- » Locking washer to prevent the F-connector coming loose after installation
- » Compression provide 100% sealing protection on all approved cable types
- » Simple and easy to use



## RG6 'F' Male Compression STD Connector for Foxtel Approved Quad and Tri-shield Cables (50 Pack) 26MM-APFCF-RG6

- » Foxtel approved (F31125) RG6 compression connector
- » One-piece, sleeve style connector suited for use with our 08MM-CT04, CT07 and CT01S compression tools
- » Embedded O-ring to prevent water and dust ingress
- » Locking washer to prevent the F-connector coming loose after installation
- » Compression provides 100% sealing protection on all approved cable types
- » Simple and easy to use





## RG6 Compression Connector (50 Pack)

### 26MM-TRSF-6L

- » Foxtel approved (F30574)
- » One-piece, all-metal design
- » Delivers supreme barriers against moisture intrusion without the need for an external grommet (i.e. weather seal)
- » Unique design requires little force to install
- » Dual compression rings provide 100% sealing protection on all approved cable types
- » Used with Matchmasters 08MM-CT04 and 08MM-CT07 compression tools



## RG11 Compression Connectors



## RG11 'F' Type Compression Connector (10 Pack)

### 08MM-F11-COM

- » Features an integrated spring finger sliding centre pin
- » The intelligent construction and integrated O-ring secure a watertight connection
- » The F11-COM one-piece connectors come with a free-spinning hex-nut for an easy and reliable installation
- » Frequency range 0.3 - 1000 MHz
- » Used with Matchmaster compression tools (08MM-CT01S and 08MM-CT07)



## RG11 Quick Mount Universal Compression Connector (25 Pack)

### 08MM-QM11

- » Wideband operating frequency range 0.3 - 3000 MHz
- » No need to pull back the braid or remove the foil sheath-like traditional connector
- » Just strip the cable, place it on the connector and compress
- » Used with Matchmaster compression tools (08MM-CT01S & 08MM-CT07)
- » Integrated O-ring to create a watertight seal to prevent any unwanted ingress
- » Perfect for use in all CATV and satellite networks



## RG11 Quad-shield Connector Compression (25 Pack)

### 18MM-CX311Q

- » Wideband operating frequency range 0.3 - 3000 MHz
- » The CX311Q one-piece connectors come with a free-spinning nut - hex 14mm (9/16 compatible) - for easy and reliable installation.
- » Features an integrated spring finger sliding centre pin
- » Used with Matchmaster compression tools (08MM-CT01S & 08MM-CT07)
- » Integrated O-ring to create a watertight seal to prevent any unwanted ingress
- » Perfect for use in all CATV and satellite networks



## Compression Connector for RG11 Foxtel Approved Quad-Shield Cables (50 Pack)

### 18MM-FS11F

- » Foxtel approved RG11 compression connector
- » Suited for use with 08MM-CT07 and 08MM-CT01S compression tools
- » Embedded O-ring to prevent water and dust ingress
- » Return Loss: > -30 dB up to 1 GHz typical
- » Compression provide 100% sealing protection on all approved cable types
- » Simple and easy to use



# Connectors and Tools



## Connector RG11 Foxtel Approved

### 26MM-DRS-11L

- » Foxtel approved (F30709)
- » One-piece, all-metal design
- » Delivers supreme barriers against moisture intrusion without the need for an external grommet (i.e. weather seal)
- » Unique design requires little force to install
- » Dual compression rings provide 100% sealing protection on all approved cable types
- » Used with Matchmasters 08MM-CT07 compression tool



## 'RG11 F' Type Compression Connector (25 Pack)

### 26MM-EX11

- » PPC Broadband RG11 'F' type compression connector for use in CATV and satellite installations
- » Used with Matchmaster compression tools (08MM-CT07 & 08MM-CT01S)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » Suitable for use to 3000MHz
- » Telstra approved (739/169)
- » Constructed with a 7/16" hex nut for easy installation and compatibility with standard tools

## Crimp Connectors



## RG6 BNC Crimp Connector (10 Pack)

### 08MM-B9

- » Crimp outer, solder centre pin BNC male connector for RG6 75 Ohm cables
- » BNC male with twist lock for durability and secure connection
- » Used with Matchmaster crimping tool (08MM-CT611)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability



## RG59 'F' Type Crimp On Connector (100 Pack)

### 08MM-F59M

- » Crimp style 'F' type male connector for RG59 75 Ohm cables
- » Used with Matchmaster crimping tool (08MM-CT611)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Perfect for use with Matchmasters 06MM-E59Q cable



## RG6 'F' Type Crimp On Connector

- » Crimp style 'F' type male connector for RG6 75 Ohm cables
- » Used with Matchmaster crimping tool (08MM-CT611)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Perfect for use with Matchmasters 06MM-E6T and E6Q series cable
- » Available in multiple configurations below

Product Code	Pack Size
DA-F6MH	20
08MM-F6M	100



## RG6 IEC (PAL) Male Crimp Connector

- » Crimp style IEC (PAL) male connector for RG6 75 Ohm cables, perfect for making TV fly leads
- » Used with Matchmaster crimping tool (08MM-CT611)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Perfect for use with Matchmasters 06MM-E6T and E6Q series cable
- » Telstra approved
- » Available in multiple configurations below

Product Code	Pack Size
DA-P2H	10
08MM-P2	20



## RG6 IEC (PAL) Female Crimp Connector

- » Crimp style IEC (PAL) female connector for RG6 75 Ohm cables, perfect for making TV fly leads
- » Used with Matchmaster crimping tool (08MM-CT611)
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Perfect for use with Matchmasters 06MM-E6T and E6Q series cable
- » Telstra approved
- » Available in multiple configurations below

Product Code	Pack Size
DA-P4H	10
08MM-P4	20

## Self-Install Connectors



## RG59 'F' Type Twist On Connector

- » Twist on style 'F' Type male connector for RG59 75 Ohm cables
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Perfect for use with Matchmasters 06MM-E59Q cable
- » Available in multiple configurations below

Product Code	Pack Size
DA-F59TH2	2
08MM-F59T	100



## RG6 'F' Type Self Install Tool-less Connector (10 Pack) 08MM-F6P

- » Push on connector, no crimp or compression tool required
- » Suitable for RG6 quad coaxial cable
- » Used with Matchmaster stripping tool (08MM-ST10)
- » All metal body, durable composition
- » Perfect for use in tight spaces
- » High quality nickel plated finish



# Connectors and Tools



## RG6 'F' Type Twist On Connector

- » Twist on style 'F' Type male connector for RG6 75 Ohm cables
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » All metal construction for durability
- » Perfect for use with Matchmasters O6MM-E6T and E6Q cables
- » Available in multiple configurations below

Product Code	Pack Size
DA-F6TH2	2
DA-F6TH	20
O8MM-F6T	100



## RG6 IEC (PAL) Male Self-Install Connector (50 Pack)

### O8MM-SI-IEC6Q

- » Cabelcon self-install style IEC (PAL) male connector for RG6 75 Ohm cables, perfect for making TV fly leads
- » No tools required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » Two-piece construction for ease of installation screws together to lock onto coaxial cable
- » Perfect for use with Matchmasters O6MM-E6T and E6Q series cable



## RG6 'F' Type Quad Self-Install Connector (100 Pack)

### O8MM-SI6Q

- » Cabelcon self-install style 'F' Type male connector for RG6 75 Ohm cables
- » Push on connector. No crimp or compression tool required
- » High-quality nickel-plated finish for long-life corrosion resistance
- » Used with Matchmaster stripping tools (O8MM-ST10 and O8MM-ST05)
- » Perfect for use with Matchmasters O6MM-E6T and E6Q series cable
- » Frequency range 0.3 - 3000 MHz

## CATV



## 'F' Female to KS Port Adaptor

### 18MM-KSFA

- » 5/8" KS interface to 'F' type series female adaptor made from 6262 aluminium
- » Greater than 16dB return loss at 1GHz
- » Operating frequency range DC-1GHz
- » Used to adapt amplifier and CATV outdoor taps and splitters to 'F' type connections
- » 75 Ohm impedance
- » Foxtel (F30163), Telstra (739/112) approved



## KS to KS Splice Coupler

### 18MM-KSKSC

- » Designed to splice hard-line cable for joining cable networks using like or different sized cables
- » Greater than 25dB return loss at 1GHz
- » Operating frequency range DC-3GHz
- » Made from 6262 aluminium
- » Foxtel (F30162) and Telstra (739/102) approved







## KS Splice Coupler with Nitin 6 Plating 18MM-KSKSC-N6

- » Designed to splice hard-line cable, for joining cable networks using like or different sized cable



## KS to KS Rotational 18MM-KSKSR

- » Made from 6262 aluminium alloy for excellent corrosion resistance with brass contact pins with tin plating
- » Brass contact pins with tin plating for excellent RF conductivity
- » Moisture-proof design with EPDM O-rings
- » DC-3GHz frequency rating
- » Foxtel (F30160) and Telstra (739/100) approved
- » 1" hexagon size used on the body



## KS 5/8" to 'N' Type Female with Nitin 6 Plating 18MM-KSNF

- » Premium quality Cabelcon hardline 5/8" KS to N-Type 75 Ohm adaptor
- » Designed to adapt professional level amplifiers, splitters/taps or other hardware KS ports to N-Type
- » Greater than 30dB return loss at 1GHz
- » Operating frequency range DC-3GHz
- » Solid brass body with Nitin-6 plating
- » Housing adaptors make it very easy to connect and disconnect the cable/connector assembly from active and passive trunk components without removing the connector from the cable.



## .500" PIII to 'F' Female Connector 18MM-PI500AFF3

- » 2-piece "F" Female (FF) connector for .500" hard-line cables
- » Connectors are designed for all major CATV half inch cable manufacturers
- » Clamp technology to securely fasten connector to cable
- » Bandwidth: DC-1.2GHz
- » Return loss: >25dB @ 1GHz
- » Insertion loss: <0.2dB @ 1GHz



## .500" PIII to 'F' Male Connector 18MM-PI500AFM3

- » 2-piece "F" Female (FM) connector for .500" hard-line cables
- » Connectors are designed for all major CATV half inch cable manufacturers
- » Clamp technology to securely fasten connector to cable
- » Bandwidth: DC-1.2GHz
- » Return loss: >25dB @ 1GHz

# Connectors and Tools



## **.500" PIII to KS 5/8" Male Connector**

### **18MM-PI500CH3**

- » Designed to terminate you .500" hardline cables directly to splitter/tap and amplifier KS 5/8" housing ports
- » Made from 6262 aluminium alloy for excellent corrosion resistance with brass contact pins with tin plating
- » Moisture-proof design with EPDM O-rings
- » Connectors are designed for all major CATV cable manufacturers
- » Foxtel (F30155) and Telstra approved



## **.500" PIII Splice Connector**

### **18MM-PI500SP3**

- » Designed to join hard-line .500" cables directly
- » Greater than 25dB return loss at 1GHz
- » Operating frequency range DC-1GHz
- » Made from 6262 aluminium
- » Foxtel (F30157) and Telstra (739/67) approved



## **75 Ohm KS Port Terminator (25 Pack)**

### **18MM-T2**

- » 75 Ohm male housing terminator for use on CATV hard-line taps and splitters where ports may have voltage present
- » 1.0 KV universal male terminator for 5/8-24 entry ports
- » Blocks 60 cycle AC and terminates RF signals
- » Integrated O-ring for waterproof connections
- » Suitable for 5MHz to 1300MHz frequency range
- » Operating Voltage Rating 90 Volts (@ 60 Hz continuous AC)



## **75 Ohm KS Female Terminator**

### **18MM-T3**

- » 75 Ohm female housing terminator for use on CATV hard-line taps and splitters where ports may have voltage present
- » 1.0 KV universal female terminator for 5/8-24 entry ports
- » Blocks 60 cycle AC and terminates RF signals
- » Integrated O-ring for waterproof connections
- » Suitable for 5MHz to 1300MHz frequency range
- » Operating Voltage Rating 90 Volts (@ 60 Hz continuous AC)



## **75 Ohm Port Terminator (10 Pack)**

### **18MM-T3-N**

- » 75 Ohm male housing terminator for use on CATV hard-line taps and splitters where ports may have voltage present
- » Nitin-6 plated 1/2 watt rated male terminator for PG11M-R75 entry ports
- » Blocks 60 cycle AC and terminates RF signals
- » Integrated O-ring for waterproof connections
- » Suitable for 0.3MHz to 3000MHz frequency range
- » Screening Attenuation(CoMeT) >105 dB @ 1000-3000MHz and >120 dB @ 30-1000MHz

## Tools



### **Cable Cutting Tool** **08MM-CC206**

- » Suitable for RG59 and RG6 coaxial cable
- » Non slip PVC handle
- » Curved blade to slice through coaxial cable easily and to prevent cable damage
- » Suits up to 12mm maximum outside diameter cutting
- » Lockable handle for blade protection when not in use



### **Universal Compression Tool Kit RG6/11 'F' Type/BNC/IEC/RCA** **Suitable for Foxtel Connectors**

#### **08MM-COMPKIT3**

- » Universal compression tool kit for BNC, RCA, IEC and F Type compression connectors
- » Can be used with RG6 / RG11 and pay TV approved compression connectors
- » Kit contains 1 x compression tool, 1 x non slip lockable cable cutter, 1 x coaxial cable stripper and 1 x "F" removal tool
- » Kit comes with a heavy-duty hard cover carry case. Also included is a heavy-duty tool pouch with spare pocket for accessories with a 56" adjustable waist belt



### **'F' Connector Removal and Insertion Tool**

#### **08MM-CR2206**

- » Extended 156mm length to help reach difficult to access 'F' connectors
- » Integrated 'F' female connector on the tool handle to assist with fitting 'F' connectors to coaxial cables
- » Built-in 8mm side slot allowing you to insert the tool over existing RG6 and RG59 cables to seat the tool head over the 'F' connector
- » High-quality nickel-plated finish
- » Non-slip PVC handle
- » The ideal tool for speed and ease when working with 'F' type connectors



### **Professional Coax Cable Installers Crimping Kit**

#### **08MM-CRIMPKIT**

- » Kit comes in a blue protective hard case with handle and interior heavy-duty foam padding
- » 1x crimping tool for RG59, RG6 and RG11
- » 1x 'F' connector removal and insertion tool
- » 1x non slip, lockable cable cutting tool
- » 1x coaxial cable stripper for RG59 and RG6 with adjustable blades
- » Kit contains industry standard essential crimping tools for an affordable price



### **Compression Tool for 'F' Connectors with Extended Plunger**

#### **08MM-CT01S**

- » Extended 17mm plunger for compact compression connectors (08MM-QM06S)
- » Cost-effective professional tool suitable for RG59, RG6 and RG11 'F' compression connectors
- » Single-handed efficient compression in one action
- » Non-slip PVC handle
- » The ideal tool for speed and ease when working with 'F' type compression connectors

# Connectors and Tools



## Compression Tool for Foxtel RG6 Connectors

### 08MM-CT04

- » Suitable for RG6 and Foxtel approved 26MM-TRSF-6L and 26MM-APFCF-RG6 connectors; no adjustment required
- » Foxtel (F30661) approved
- » Holds cable in place when compressing for a more accurate connection
- » Provides a leverage system to present less strain on hands
- » Non slip PVC handle
- » The ideal tool for speed and ease when working with compression connectors



## Compression Tool to Suit 08MM-QM06S

### 08MM-CT06

- » Professional tool suitable for 08MM-QM06S and other RG6 'F' sleeve compression connectors
- » Termination is accomplished in a single action
- » 2 die adaptors to suit long or short 'F' compression connectors
- » A professional cost effective solution for 'F' connector type compression



## Universal Compression Tool RG6/11 'F' Type/BNC/IEC/RCA Suitable for Foxtel RG6/11 Connectors

### 08MM-CT07

- » Universal compression tool for 'F' Type, BNC, IEC and RCA connectors
- » Designed for use with RG59, RG6 and RG11 cables
- » Suitable for Foxtel RG6 and RG11 compression connectors
- » Adjustable compressor to suit every Matchmaster compression connector
- » Holds cable in place when compressing for a more accurate connection
- » Provides a leverage system to make compressing easy



## Crimping Tool for RG59, RG6 and RG11 Connectors

### 08MM-CT611

- » Suitable for RG59, RG6 and RG11 coaxial cable
- » Provides a leverage system to present less strain on hands
- » Non slip PVC handle
- » Adjustable crimp force
- » Heavy-duty design
- » The ideal tool for speed and ease when working with crimp connectors



## Double Bubble® RG6 'F' Type Compression Tool

### 08MM-DB6-CT

- » Designed for use with the 18MM-DB6F Foxtel approved (F31137) RG6 compression connector
- » Creates a secure, permanent Double Bubble® connection
- » TRUE 360° compression technology
- » Suited for Belden 'F' type Double Bubble® connectors
- » Compression provides 100% sealing protection on all approved cable types
- » Simple and easy to use



## Stripping Tool for RG58, RG59 and RG6 (08MM-CRIMPKIT Component)

### 08MM-HT-332

- » Suitable for RG58, RG59 and RG6 coaxial cables
- » Adjustable three-blade stripping system to help remove outer foil and braid layers for easy connector insertion
- » Compact, lightweight design
- » Spring-loaded to assist with cable cutting



## RG59/6/11 Compression Tool Kit for 'F' Type Connectors

### 08MM-MINICOMPKIT

- » Kit contains: 1x 08MM-CT01S, 1x 08MM-ST10, 20x 08MM-QM06S
- » The CT01S compression tool features an extended 17mm plunger for compact compression connectors (08MM-QM06S)
- » Cost-effective professional tools suitable for RG59, RG6 and RG11 cable preparation and 'F' compression connectors
- » ST10 stripping tool features an easy spring trigger to lock the coaxial cable into place for stripping, plus an integrated spanner for tightening and loosening 'F' type connections
- » ST10 has an adjustable blade to switch from RG59/RG9 to RG11 coaxial cable stripping
- » QM06S is a quick connect 0.3-3000MHz rated connector. No need to pull back the braid or remove the foil sheath from the cable like traditional connectors. Strip cable, place on the connector and compress
- » The ideal tool kit for speed and ease when working with 'F' type compression connectors



## Stripping Tool for RG59, RG6, RG11 and CAT Cables

### 08MM-ST05

- » Suitable for RG59, RG6, RG11 coaxial cable and CAT series data/telephone cable
- » Ideal for stripping outer jackets of UTP, STP and CAT series round cable
- » The stripping tool also incorporates an in-built, adjustable cable cutter
- » Provides a click-in, rotating cartridge to swap between RG59, RG6 and RG11 stripping
- » Compact, lightweight design
- » Allowing you to strip cable with five easy rotations



## Stripping Tool for RG59, RG6 and RG11 including Spanner for 'F' Connectors

### 08MM-ST10

- » Suitable for RG59, 6, 7 and 11 coaxial cable
- » Easy spring trigger to lock coaxial cable into place for stripping
- » Spanner can be used for tightening and loosening 'F' type connections
- » Adjustable blade to switch from RG59 and 6 to RG7 and 11 coaxial cable stripping
- » Compact, lightweight design
- » Allowing you to strip cable with five easy rotations



## Double Bubble® Compression Tool

### 18MM-DBCT

- » Designed for use with the 18MM-DB6F Foxtel approved (F31137) RG6 compression connector
- » Creates a secure, permanent "double bubble" connection
- » TRUE 360° compression technology
- » Suited for F-type, RCA and BNC double bubble connectors
- » Compression provides 100% sealing protection on all approved cable types
- » Simple and easy to use



## Jacket Stripping Tool for .500" PIII Cables

### 18MM-JST500

- » Fast and efficient removal of jackets from trunk and distribution of hardline coaxial cables
- » Pre-set JST blades minimise scoring or nicking of the aluminium
- » Knurled body for a sure grip
- » Solid metal body for long life use

# Connectors and Tools



## Combination Stripping and Coring Tool for .500" PIII Cables 18MM-SCT500

- » Combination of coring and stripping tool cores and strips .500" hard-line coaxial cable in one fast and precise operation
- » Pre-set blades minimise scoring or nicking of the aluminium
- » Heat-treated sheath cutting blade
- » Solid metal body for long life use
- » SCT500 tools have a standard T-handle with a built-in 3/8 inch (9.5mm) drill adapter



# Amplifiers and Modulators

Product Catalogue



## Masthead Amplifiers



### Multiband Masthead Amplifier UHF 34dB with 4G/5G Filter and Power Supply

#### 10MM-DE34P

- » Combined blocks D & E 34dB amplifier suitable for Gold Coast and Central Coast regions
- » 34dB maximum gain with adjustment switch that is selectable between 15, 25 and 34dB
- » Filtering at 750MHz is >50dB at maximum gain for UHF of 34dB
- » The UHF input return loss is >11dB with a noise figure of <2.9dB for UHF
- » Heavy-duty UV stable outdoor weather proof casing
- » Includes 14V DC power supply and cable ties for mounting

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



### Masthead Amplifier UHF 15dB with 4G/5G Filter johansson® the original

#### 10MM-J15C-4G

- » 15dB low noise fixed gain amplifier in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » Non-corrosive circuit board with high-quality components
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



### Masthead Amplifier UHF 15dB with 4G/5G Filter and Power Supply johansson® the original

#### 10MM-J15C-4GP

- » 15dB low noise fixed gain amplifier in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » Non-corrosive circuit board with high-quality components
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC
- » Included 14V DC power supply

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



### Masthead Amplifier VHF/UHF 24dB with 4G/5G Filter



#### 10MM-J24BF-4G

- » 24dB gain combination low noise amplifier with 15dB gain adjustment in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » VHF only or combined VHF/UHF input selection (selectable)
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Masthead Amplifier VHF/UHF 24dB with 4G/5G Filter and Power Supply **johansson** the original

### 10MM-J24BF-4GP

- » 24dB gain combination low noise amplifier with 15dB gain adjustment in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » VHF only or combined VHF/UHF input selection (selectable)
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC.
- » 14V DC power supply included

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Masthead Amplifier UHF Super Low Noise 25dB with 4G/5G Filter **johansson** the original

### 10MM-J25SLN-4G

- » 25dB gain super low noise amplifier with 15dB gain adjustment in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » Non-corrosive circuit board with high-quality components
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Masthead Amplifier UHF Super Low Noise 25dB with 4G/5G Filter and Power Supply **johansson** the original

### 10MM-J25SLN-4GP

- » 25dB gain super low noise amplifier with 15dB gain adjustment in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » Non-corrosive circuit board with high-quality components
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC
- » Included 14V DC power supply

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Masthead Amplifier VHF/UHF 34dB with 4G/5G Filter **johansson** the original

### 10MM-J34BF-4G

- » 34dB gain combination low noise amplifier with 13dB VHF and 24dB UHF gain adjustment in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » VHF and UHF separated or combined VHF/UHF input selection (selectable)
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			

# Amplifiers and Modulators



## Masthead Amplifier VHF/UHF 34dB with 4G/5G Filter and Power Supply **johansson** the original

### 10MM-J34BF-4GP

- » 34dB gain combination low noise amplifier with 13dB VHF and 24dB UHF gain adjustment in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » VHF and UHF separated or combined VHF/UHF input selection (selectable)
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC
- » 14V DC power supply included

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Masthead Amplifier UHF 34dB with 4G/5G Filter **johansson** the original

### 10MM-J34C-4G

- » 34dB gain low noise amplifier with 24dB gain adjustment in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » VHF passive pass-through via combined or separate inputs (selectable)
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC with DC pass through to input to allow cascading of amplifiers or powering other devices upstream.

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Masthead Amplifier UHF 34dB with 4G/5G Filter and Power Supply **johansson** the original

### 10MM-J34C-4GP

- » 34dB gain low noise amplifier with 24dB gain adjustment in a fully screened housing to maximise signal quality
- » Built-in 4G/5G LTE 694MHz low pass filter
- » VHF passive pass-through via combined or separate inputs (selectable)
- » U/V stabilised weatherproof housing and cable tie
- » Wide range DC voltage operation, 5-24V DC with DC pass through to input to allow cascading of amplifiers or powering other devices upstream.
- » 14V DC power supply included

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Masthead Amplifier VHF/UHF 30dB with 4G/5G Filter and Power Supply - 174-694MHz

### 10MM-MA30PDF

- » 4G/5G LTE filter built-in from 694MHz providing >40dB filtering @ 750MHz with maximum gain of 25dB for VHF and 30dB for UHF with 20dB of independent adjustment
- » Wide range powering ability with built-in voltage rectifier and regulator to allow 5-24V DC and 5-22V AC powering
- » New and improved water-resistant and UV stable heavy-duty housing
- » Compatible with a combination antenna or separate VHF and UHF antennas by setting the in-built switch.
- » Includes 14V DC power supply and UV stable heavy-duty cable ties for mounting
- » VHF and UHF input return loss: >14dB



5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Multiband Masthead Amplifier VHF/UHF 34dB with 4G/5G Filter and Power Supply

### 10MM-MB34P

- » Independent Block A, B & C inputs can be used with VHF or UHF antenna's or a combination of both and includes a VHF on/off switch.
- » 4G and 5G LTE filter built-in from 610MHz for greater filtering at 700MHz. Filter attenuation @ 700MHz: >50dB at maximum gain for UHF of 34dB
- » Gain adjustment switch selectable between 15, 25 and 34dB
- » Heavy-duty UV stable outdoor weatherproof casing
- » Includes 14V DC power supply and cable ties for mounting
- » VHF input return loss is >13dB and the UHF return loss is >11dB with a noise figure of <2.9dB for UHF

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Masthead Amplifier UHF 24dB with 4G/5G Filter and Power Supply

### 10MM-MD24UP

- » 4G and 5G LTE filter built in from 694MHz. Filter Attenuation @ 750MHz: >30dB at maximum gain for UHF of 24dB
- » Maximum gain of 24dB with 10dB of adjustment
- » VHF switch diplexing with maximum attenuation of 2.84dB at 230MHz
- » Can be used with separate UHF/VHF antennas or combined UHF/VHF antennas
- » Heavy duty UV stable outdoor weather proof casing
- » Includes 14V DC power supply and cable ties for mounting



5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			

# Amplifiers and Modulators



## Power Passing Masthead Amplifier VHF/UHF 34dB with 4G/5G Filter

### 10MM-MD34

- » Built in 4G LTE 694MHz low pass filter filtering at 750MHz is >40dB at maximum gain for UHF of 34dB and >50dB at maximum gain for VHF of 28dB
- » Power through switch to drive extra amplifiers for both VHF and UHF with gain adjustment switch selectable between 15, 25 and 34dB for UHF and 10, 20 and 28dB for VHF
- » Heavy-duty UV stable outdoor weather proof casing
- » Can be used with VHF or UHF antenna's or a combination of both
- » VHF input return loss is >12dB with a noise figure of <4.8dB and UHF input return loss is >11dB with a noise figure of <2.9dB

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Power Passing Masthead Amplifier VHF/UHF 34dB with 4G/5G Filter and Power Supply

### 10MM-MD34P

- » Built-in 4G/5G LTE 694MHz low pass filter filtering at 750MHz is >40dB at maximum gain for UHF of 34dB and >50dB at maximum gain for VHF of 28dB
- » Power through switch to drive extra amplifiers for VHF and UHF with gain adjustment switch selectable between 15, 25 and 34dB for UHF and 10, 20 and 28dB for VHF.
- » Heavy-duty UV stable outdoor weatherproof casing
- » It can be used with VHF or UHF antenna's or a combination of both
- » VHF input return loss is >12dB with a noise figure of <4.8dB and UHF input return loss is >11dB with a noise figure of <2.9dB
- » Includes 14V DC power supply and UV stable cable tie for mounting

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			



## Multiband Masthead Amplifier UHF 34dB with 4G/5G Filter and Power Supply

### 10MM-MDU34P

- » Individual UHF block filters B, C, D & E with inbuilt 4G/5G LTE filter
- » 34dB maximum gain with adjustment switch that is selectable between 15, 25 and 34dB
- » Filtering at 700MHz is >50dB at maximum gain for UHF of 34dB using blocks B, C & D and >50dB at 750MHz for block E
- » Can be used for all individual UHF channel blocks (B, C, D & E) or a combination of two non adjacent blocks
- » Heavy-duty UV stable outdoor weather proof casing
- » Includes 14VDC power supply and cable ties for mounting

5G LTE	4G LTE	DVB-T2	4K HDR	Ultra HD	HEVC
READY		COMPATIBLE			





## Multiband Masthead Amplifier FM/VHF/UHF 30dB with 4G/5G Filter and Power Supply

### 10MM-UA30PDF

- » 4G and 5G LTE filter built in from 694MHz. Filter attenuation @ 750MHz: >50dB at maximum gain for UHF of 30dB
- » Maximum gain adjustment switch selectable between 20 and 30dB with individual 12dB attenuation pots per band for a total of 22dB adjustment range
- » Heavy-duty UV stable outdoor weather proof casing
- » Can be used with FM, VHF or UHF antenna's or a combination of all
- » Includes 14V DC power supply and cable ties for mounting
- » VHF input return loss is >13dB and the UHF return loss is >11dB with a noise figure of <2.9dB for UHF



## Smart Masthead Amplifier with Auto Programming, 3 Inputs and 90dBµV AGC Controlled Output



### 14MM-SM90-5G

- » Smart Masthead Amplifier with fully automatic channel scan and process function upon double power cycle start-up
- » Scans all channels, amplifies the weak signals while keeping the strong channels and outputting an AGC controlled 90dBµV
- » SAW filters for LTE (4G/5G) protection on all inputs
- » Processes even the most difficult situations with adjacent channels from multiple antennas
- » All output channels have an equal and stable output power level of 90dBµV
- » Wide range power input - 9V to 18VDC - can be used with 14MM-PSF1A plus 14MM-PI62 or the 10MM-PSD14



## FM



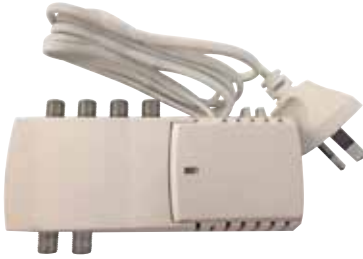
## Multiband Masthead Amplifier FM/VHF/UHF 30dB with 4G/5G Filter and Power Supply

### 10MM-UA30PDF

- » 4G and 5G LTE filter built in from 694MHz. Filter attenuation @ 750MHz: >50dB at maximum gain for UHF of 30dB
- » Maximum gain adjustment switch selectable between 20 and 30dB with individual 12dB attenuation pots per band for a total of 22dB adjustment range
- » Heavy-duty UV stable outdoor weather proof casing
- » Can be used with FM, VHF or UHF antenna's or a combination of all
- » Includes 14V DC power supply and cable ties for mounting
- » VHF input return loss is >13dB and the UHF return loss is >11dB with a noise figure of <2.9dB for UHF



## Splitter Amplifiers



**TERRA 4 Way Amplifier Splitter**  
**10MM-AS38**



- » 4-way splitter amplifier 47 to 862MHz with 20dB Gain
- » 16dB gain adjustment
- » Die-cast housing inside a heavy-duty plastic casing
- » Maximum output level IMD3=60 dB (DIN45004B) 100 dBμV
- » Power consumption 230 V AC 50/60 Hz 3 Watt
- » Operating temperature range 20 + +50 degrees C



**TERRA 2 Way Amplifier Splitter**  
**10MM-AS39**



- » 2-way splitter amplifier 47 to 862MHz with 20dB Gain
- » 16dB gain adjustment
- » Die-cast housing inside a heavy-duty plastic casing
- » Maximum output level IMD3=60 dB (DIN45004B) 100 dBμV
- » Power consumption 230 V AC 50/60 Hz 3 Watt
- » Operating temperature range 20 + +50 degrees C



**2 Way Amplifier with 4G/5G LTE Filter**  
**10MM-MA22FL**

- » Ideal for TV and FM signals to be split to 2 TV's
- » 2 Way UHF/VHF amplifier with integrated power 1 input 2 outputs
- » Frequency range 40-694MHz
- » 4G/5G LTE filter low pass 694MHz
- » 3 x A3 female IEC adaptors
- » 15dB ± 3dB Gain



**4 Way Amplifier with 4G/5G LTE Filter**  
**10MM-MA24RL**

- » 4-way splitter amplifier 47 to 694MHz with 8dB Gain
- » Ideal for TV and FM signals to be split into 4 devices
- » Thanks to its remote powering ability, it can be installed on a roof or remote location
- » Power pass through to power upstream devices (switchable)
- » 4G/5G LTE filter low pass 694MHz
- » DC power range 12-24V with max 24V DC 500mA pass-through



## Line Powered Amplifiers



### Distribution Amplifier UHF/VHF 40dB with 4G/5G Filter and Power Supply

#### 10MM-DMA42

- » Multiband remote powered amplifier with maximum 40dB UHF and 33dB VHF and FM gain with independent 15dB gain adjustment per band.
- » Switchable inputs for separate UHF & VHF or UHF/VHF combination
- » Separate gain controls for Band 1 & FM, Band 3 & UHF
- » Die-cast metal casing for excellent heat dissipation
- » Built in 4G/5G LTE filter @ 694MHz
- » 14V DC power supply included



### 4 Way Amplifier with 4G/5G LTE Filter

#### 10MM-MA24RL

- » 4-way splitter amplifier 47 to 694MHz with 8dB Gain
- » Ideal for TV and FM signals to be split into 4 devices
- » Thanks to its remote powering ability, it can be installed on a roof or remote location
- » Power pass through to power upstream devices (switchable)
- » 4G/5G LTE filter low pass 694MHz
- » DC power range 12-24V with max 24V DC 500mA pass-through



### 300-2350MHz 10-20V DC 14-24dB Gain Line Amplifier

#### 14MM-SA004

- » Downstream frequency range 300-2350MHz with 14-24dB gain
- » DC and tone pass through
- » Robust die-cast housing
- » Powered by set top box, 10-20VDC with 90mA maximum current draw
- » 14-24dB pre-slope built in across 300-2350MHz with maximum output: IMD3 = 35dB (EN50083-3) 115dBμV
- » Operating temperature range 20 ÷ +50 degrees C



### WISI 108-1218MHz 42dB Gain Remote Powered Amplifier

#### 14MM-VX29B

- » Remote powered 27-65 V AC can be used as a network power inserter by the addition of a 14MM-XE29 cabling kit (sold separately)
- » All settings (gain, slope etc.) via WISI bluetooth app or by OH41 hand controller
- » Integrated diplex filters (85 MHz and 204 MHz) and return-path amplifier
- » Automatic level and slope control (ALSC)
- » 2-way output optional by adding 14MM-XM51B splitter (sold separately)
- » IP66 rated with operating temperature range -20 to +65 degrees C



## Distribution Amplifiers



### Distribution Amplifier UHF/VHF 40dB with 4G/5G Filter and Power Supply

#### 10MM-DMA42

- » Multiband remote powered amplifier with maximum 40dB UHF and 33dB VHF and FM gain with independent 15dB gain adjustment per band.
- » Switchable inputs for separate UHF & VHF or UHF/VHF combination
- » Separate gain controls for Band 1 & FM, Band 3 & UHF
- » Die-cast metal casing for excellent heat dissipation
- » Built in 4G/5G LTE filter @ 694MHz
- » 14V DC power supply included



### TERRA Amplifier 30dB Gain

#### 10MM-HA024R30

- » Compact and reliable, great for adding extra points to an indoor area
- » Variable slope and gain control built-in providing greater adjustment
- » Locally powered using 240V mains power
- » F' connectors on all ports
- » External test port, passive return path built in
- » Switchable internal amplifier section allowing it to switch effortlessly between low and medium gain performance. This allows the gain of the amplifier to be reduced without degrading the quality of the signal being amplified



### Satellite/Terrestrial Amplifier

#### 10MM-HSA100

- » Amplifies both satellite and terrestrial services
- » Terrestrial stage can be switched to passive if it is not needed
- » DC power pass through, allows power to be passed to an LNB or masthead amplifier
- » Independent gain and slope adjustment available for both satellite and terrestrial bands
- » Foxtel approved (F30672)
- » Ventilated power-supply section allowing for greater heat dissipation and a longer MTBF when compared to other amplifiers



### 41dB Forward Gain 47-862MHz Amplifier (No Return Path)

#### 14MM-BA214

- » Downstream frequency range 47 to 862MHz with 41dB gain
- » GaAs push-pull output stage
- » Interstage attenuator, slope pre-correction and adjustable gain & slope regulators
- » Output level CTB, CSO (EN60728-3)\* 115 dBμV (42 ch.)
- » 18dB adjustment for both gain and slope
- » Operating temperature range 20 ÷ +50 degrees C
- \* measured with 6dB interstage equalizer





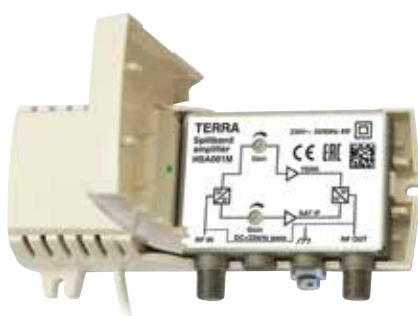
## TERRA MATV HA-HD205 Amplifiers



TERRA Electronics HA214Rxx and HD series amplifiers perfectly suit commercial MATV applications. Their built-in slope and gain regulators and ability to handle high channel loading while maintaining low noise levels can be used in any MATV builds, large or small. In addition, TERRA's range of amplifiers offers flexibility for your installations with options including active return path, local mains and remote powered options with built-in wide-range gain and slope controls.

Product Code	Description	Gain (dB)	Max Output (dBμV)*
<b>Locally Powered MATV</b>			
14MM-HA214R65	Amplifier 87-862MHz with 65MHz Return Path	40	109
<b>Remote AC Powered</b>			

\* See official data sheets for testing standards



### TERRA House Amplifier 47-2400MHz with 25dB Forward Gain

#### 14MM-HSA001

- » Foxtel approved (F31101) for SMS stacker and TDT systems
- » Wideband (47-2400MHz) adjustable amplification with 25dB maximum gain for sat band and 18dB maximum gain for terrestrial with built-in separate gain regulators for every band
- » 7dB fixed slope for sat band and 4dB fixed slope for Terrestrial
- » >10dB return loss for satellite and terrestrial bands
- » Compact design suitable for use inside apartments and domestic systems as well as small commercial systems
- » DC and DiSEqC signals pass (400mA maximum)



### TERRA Split-band Multi-input MATV Amplifier for FM, VHF and 3x UHF Feeds

#### 14MM-MA077TB

- » Can combine FM radio, VHF DVB-T or DAB+ signal and up to 3 UHF sources into a MATV network
- » High gain with 35dB for both FM (88-108MHz) and VHF (174-230MHz) band and 44dB for UHF inputs
- » 20dB gain adjustment per input via 10dB switch and 10dB dial
- » Built in LTE 4G/5G filters to UHF ports 2 (470-678MHz) and 3 (470-694MHz) with wideband UHF pass on port 1 (470-862MHz)
- » >10dB return loss per port
- » DC signals pass via UHF 3 12VDC 100mA maximum with DC overload LED indicator





# Amplifiers and Modulators



## TERRA House Amplifier 47-2400MHz with 40dB Forward Gain

### 14MM-MSA103

- » Foxtel approved (F31100) for SMS stacker and TDT systems
- » Wideband (47-2400MHz) adjustable amplification with 40dB maximum gain for Sat band and 34dB max gain for terrestrial with built-in separate gain regulators for every band
- » 15dB slope control for satellite and terrestrial bands with 1dB step adjustments
- » >10dB return loss for satellite and terrestrial bands
- » Selectable input configuration with separate satellite and terrestrial inputs or combined input
- » DC output feeding for both terrestrial and satellite inputs (14VDC 100mA switchable and 18VDC 800mA switchable)



## Single Input Satellite and Terrestrial Multi-band Amplifier

### 14MM-STA40A

- » Frequency range terrestrial 45-694MHz and satellite 950-2400MHz
- » 13/18VDC selectable to feed LNB
- » Fully screened case to improve performance and reduce interference



## 45dB UHF/VHF Terrestrial Distribution Amplifier with Internal Power Supply

### 14MM-TA242

- » Separate gain controls for band 1 & FM, band 3 & UHF
- » Metal casing for excellent heat dissipation
- » Switchable inputs for UHF & VHF or combination TV antenna
- » Test points - 30dB
- » Includes power supply



## 85-1006MHz 41dB Gain Distribution Amplifier with 5-65MHz Return Path

### 14MM-VX26H

- » Downstream frequency range 85-1006MHz with 41dB gain, upstream frequency range 5-65MHz with 24dB gain
- » Integrated return channel and diplexers
- » All settings via exact switching step (Q-step) or jumper
- » 111 dBμV (CENELEC 42 channels, flat, CSO/CTB >65 dB/>60 dB)
- » Lightning protection HF- connections 4 kV with IP66 water and dust protection rating
- » Foxtel approved (F30783)



## WISI 108-1218MHz 42dB Gain Remote Powered Amplifier

### 14MM-VX29B

- » Remote powered 27-65 V AC can be used as a network power inserter by the addition of a 14MM-XE29 cabling kit (sold separately)
- » All settings (gain, slope etc.) via WISI bluetooth app or by OH41 hand controller
- » Integrated diplex filters (85 MHz and 204 MHz) and return-path amplifier
- » Automatic level and slope control (ALSC)
- » 2-way output optional by adding 14MM-XM51B splitter (sold separately)
- » IP66 rated with operating temperature range -20 to +65 degrees C





## Plug-in Amplifiers



### Plug-in Amplifier 20dB Gain with 4G/5G LTE Filter

#### 10MM-MA20FL

- » Plug-in TV amplifier 40-694MHz with 20dB gain
- » 4G/5G LTE filter low pass 694MHz
- » Ideal for boosting the signal for a single TV or receiver
- » 20dB variable gain adjustment so you can set to optimal signal level - maximum output 90dBμV
- » Boosts FM as well as TV signal
- » Piggyback mains power connection



## Power Supplies



### 14V DC 'F' Type Power Supply

#### 10MM-PSD14

- » Reduces protrusion
- » Environmentally smart
- » MEPS and RoHS compliant
- » Male 'F' type connection
- » Output: 14VDC 300mA



### 14V DC 0.3A PAL Type Power Supply

#### 10MM-PSD14P

- » Environmentally smart
- » MEPS and RoHS compliant
- » PAL design
- » Output: 14VDC 300MA



### 60/90V AC 15A Power Supply for Cable Networks

#### 14MM-PVS630

- » Output voltage 60/90 V switchable
- » Maximum output current 15amp
- » Ferroresonant transformer
- » Voltage protection short circuit and alarm
- » Flange fitting 5/8" female
- » Mounting wall or pole

## Accessories



### WISI Bluetooth Antenna for Compatible VX and LR Series

#### 14MM-LB01

- » Allows Bluetooth control of your HFC Fibre nodes and amplifiers via Android 4.3 or higher and iOS devices using the free HFC Manager+ app
- » There is no need to remove and open nodes and amplifiers from their difficult-to-reach installed locations. Wirelessly connect and control your devices without the need for any tools.
- » Secures to device casing via PG11 thread
- » Retains device maximum IP rating
- » Replaceable if damaged



### Power Inserter 60V 2A 5-2400MHz

#### 14MM-PI62

- » Maximum power supply of 60VDC @ 2 amp
- » Can be used to remotely power multiswitches and active taps
- » Foxtel approved (F31093)
- » Frequency range 40 -2400MHz
- » Low insertion loss  $\leq 1.0$  dB
- » Zinc die cast housing, nickel-plated



## Adaptors



### 'F' Female to KS Port Adaptor

#### 18MM-KSFA

- » 5/8" KS interface to 'F' type series female adaptor made from 6262 aluminium
- » Greater than 16dB return loss at 1GHz
- » Operating frequency range DC-1GHz
- » Used to adapt amplifier and CATV outdoor taps and splitters to 'F' type connections
- » 75 Ohm impedance
- » Foxtel (F30163), Telstra (739/112) approved



### 5/8" to PG11 Adaptor

#### 14MM-ZG01

- » Used for 14MM-VX series amplifiers
- » Adaptor for distribution cable
- » Brass finish
- » Chassis coupler



### PG11 to 'F' Type Adaptor

#### 14MM-ZG28

- » Used for 14MM-VX24 to VX52 amplifiers
- » Adaptor for distribution cable
- » PG11 to F female
- » Chassis coupler



## Analogue Modulators



### TERRA DSB Stereo 85dBuV Modulator 10MM-MT57



- » Built-in test pattern generator (TPG) for video and audio
- » Frequency agile double sideband multi standard TV modulators
- » Adjustable audio input level and RF output level
- » Protection from unauthorised access
- » Connectors: video/audio - RCA sockets - RF - 'F' female

## Digital Modulators and Encoders



### Encoders and Modulators

Digital encoder modulators for HDMI and SD/HD-SDI are used in many headend solutions to integrate video and audio sources into RF and IP networks to allow easy distribution of sources to multiple TVs or receivers. These can be simple private networks to share content around your home or be used in complex RF and IPTV solutions to broadcast to multiple viewers simultaneously. Different models and features are available to suit your network needs, such as WEB based UI control for remote access and MPEG2 or MPEG4/H.264 encoding options.

Product Code	Description	Input	Output
14MM-DD2HD-R	Dual HDMI® to COFDM MPEG2/4 Modulator Rack Mount 1RU	2 x HDMI	1 x DVB-T, IP
14MM-DD4HD-R	Quad HDMI® to COFDM MPEG2/4 Modulator Rack Mount 1RU	4 x HDMI	2 x DVB-T, IP
14MM-4HD-DVBT-R	Quad HDMI® to COFDM MPEG4 Modulator Rack Mount 1RU with Composite/Component input option (Composite selectable MPEG2/4)	Selectable 4 x HDMI 4 x CVBS 4 x Component	1 x DVB-T
14MM-DD2HDSI-R	Dual SDI/HDSI to COFDM MPEG2/4 Modulator Rack Mount 1RU	2 x SD/HD-SDI	1 x DVB-T, IP
14MM-DD4HDSI-R	Quad SDI/HDSI to COFDM MPEG2/4 Modulator Rack Mount 1RU	4 x SD/HD-SDI	2 x DVB-T, IP



### HDMI® to DVB-T HD Modulator H.264 with 4K HDMI® Loop Through 14MM-DTM2

- » HDMI® high definition modulator with 4K HDMI® loop through
- » Supports video input resolutions 480i/p, 576i/p, 720p, 1080i/p, 4K (3840x2160 or 4092x2160)
- » Perfect for sharing your HDMI® source to all TV's in your home
- » LED display and push-button control of internal microprocessor
- » RF output range 65-95dBuV
- » MER >30dB

**4K HDR**

**DVB-T**

IP



## TERRA Transport Stream Over IP to DVB-T Modulator with 2x DVB-T Output



### 14MM-MI520

- » Conversion of TSolP input signal to 2 x DVB-T/DVB-C modulated channels
- » Supports both MPTS and SPTS inputs with any input to any output with PCR re-stamping
- » IP camera discovery and control tool built in
- » Supports UDP, RTP and RTSP protocol
- » WEB based UI for control and configuration
- » RTSP protocol of video H.264/H.265 and audio AAC conversion to transport stream

# Filters and Diplexers

Product Catalogue



## Filters



### 694MHz Low Pass Filter

#### 09MM-FD02

- » Wideband low pass filter for terrestrial TV
- » It helps eliminate 4G/5G cellular frequency interference
- » 45-694MHz frequency range
- » 'F' type fittings with full metal shielded housing for high-level screening
- » Through loss < 2.0dB typical
- » Weatherproof housing for external mounting



### Band Pass Filter Channels (28-33) Band B

#### 09MM-FD03

- » Only passes frequency range 526-568MHz (block B)
- » Eliminates unwanted channels at a lower frequency to allocate correct logical channel numbers
- » It helps eliminate 4G/5G cellular frequency interference.
- » 'F' type fittings with full metal shielded housing for high-level screening.
- » Through loss < 4.0dB typical
- » Weatherproof housing for external mounting



### Band Pass Filter Channels (34-39) Block C

#### 09MM-FD04

- » Only passes frequency range 568-610MHz (block C)
- » Eliminates unwanted channels at a lower frequency to allocate correct logical channel numbers
- » It helps eliminate 4G/5G cellular frequency interference.
- » 'F' type fittings with full metal shielded housing for high-level screening.
- » Through loss < 4.0dB typical
- » Weatherproof housing for external mounting



### Band Pass Filter Channels (40-45) Block D

#### 09MM-FD05

- » Only passes frequency range 610-652MHz (block D)
- » Eliminates unwanted channels at a lower frequency to allocate correct logical channel numbers
- » It helps eliminate 4G/5G cellular frequency interference.
- » 'F' type fittings with full metal shielded housing for high-level screening.
- » Through loss < 4.0dB typical
- » Weatherproof housing for external mounting







## Band Pass Filter Channels (40-51) Block D and E

### 09MM-FD06

- » Only passes frequency range 610-694MHz (block D and E - Gold Coast and Central Coast)
- » Eliminates unwanted channels at a lower frequency to allocate correct logical channel numbers
- » It helps eliminate 4G/5G cellular frequency interference.
- » 'F' type fittings with full metal shielded housing for high-level screening.
- » Through loss < 4.0dB typical
- » Weatherproof housing for external mounting



## Band Pass Filter Channels (45-51) Block E

### 09MM-FD08

- » Only passes frequency range 652-694MHz (block E)
- » Eliminates unwanted channels at a lower frequency to allocate correct logical channel numbers
- » It helps eliminate 4G/5G cellular frequency interference.
- » 'F' type fittings with full metal shielded housing for high-level screening.
- » Through loss < 4.0dB typical
- » Weatherproof housing for external mounting



## VHF/UHF Diplexing Filter with Input Switch

### 09MM-FD09

- » VHF/UHF diplexing filter
- » VHF frequency range: 174-230MHz for Block A pass
- » UHF frequency range: 520-694MHz
- » 'F' type fittings with full metal shielded housing for high-level screening.
- » Weatherproof housing for external mounting
- » It helps eliminate 4G/5G cellular frequency interference



## 5-694MHz In-line Band Pass Filter (5 Pack)

### 09MM-FD12

- » Frequency 5-694MHz
- » Indoor use only
- » Low insertion loss



## Diplexers



**Diplexer FTA/Satellite (Suitable for Clipsal® Double Gang Plate) (5 Pack)**

**O5MM-DOP2C**

- » Foxtel approved (F10234)
- » Includes 2x outlet plate inserts



**Diplexer FTA/Satellite (Suitable for most Clipsal® and HPM Wall Plates)**

**O5MM-DOP2HCSL**

- » Foxtel approved (F10235)
- » Includes 4 outlet plate mechs (2 Clipsal and 2 HPM mechs)
- » Allows you to separate free to air and satellite signal from a single cable
- » Suitable for Clipsal 3, 4, 5, 6 gang 2000, Slimline Series and HPM dual wall plates
- » Input frequency range: 5-2400MHz
- » Output frequency range: FTA 5-862MHz and satellite 950-2400MHz



**VHF/UHF Diplexing Filter with Input Switch**

**O9MM-FD09**

- » VHF/UHF diplexing filter
- » VHF frequency range: 174-230MHz
- » UHF frequency range: 520-694MHz
- » Weatherproof housing for external mounting
- » Eliminates 5G/4G phone interference



**VHF/UHF Satellite Diplexer**

**O9MM-SD02**

- » Combines and filters satellite and terrestrial signals into one coaxial cable
- » Diplexer can also be used in reverse to split satellite and terrestrial signal
- » 'F' type female connections
- » Compact design to easily fit in wall cavities
- » Foxtel (F30358) approved



## Attenuators



### Attenuator 'F' Type Power Pass

- » Attenuators are used in various applications to passively reduce signals to required levels without causing any signal degradation.
- » Power passing for masthead amplifiers and active satellite equipment
- » 5-2400MHz pass
- » Foxtel approved
- » Available in multiple configurations below



Product Code	Loss	Foxtel Approved	Pack Size
05MM-AF03P	3dB	F31044	5
05MM-AF06P	6dB	F31045	5
05MM-AF10P	10dB	F31046	5
05MM-AF20P	20dB	F31047	5

## Isolators



### 2GHz 800V DC Isolator

#### 19MM-IS2G

- » Screen and centre conductor full DC isolation
- » Frequency range 5-2150MHz
- » Insertion loss (dB) 0.5dB max
- » Isolation 400V DC / 800V DC peak
- » Return loss >= 13dB



### 75 Ohm 5-2500MHz 6kV Isolator

#### 19MM-ISO-6KV

- » Foxtel approved (F31152) building isolator for satellite solutions
- » Output withstands IEEE C62.41-1991 category A3 surge 6kV
- » 5-2500MHz rated with F-type ports for easy connection
- » Compact die-cast housing with earthing terminal included
- » Plastic isolated F-type fitting for network side input



## Surge Protectors



### 2400MHz Lightning Protector

#### 19MM-SRG2400F

- » 5-2400MHz lightning protector - Foxtel approved (F31153)
- » F-type fittings for easy installation into any TV network
- » Power passing to allow powering of upstream devices, LNB's etc
- » <0.5dB insertion loss across the band
- » 2-electrode ceramic surge arrester



*For the Best*



## Wall Plates to Suit All Applications

You may also need a  
**O5MM-WP61**  
See page 131

# Splitters and Taps

Product Catalogue





## Power Pass All Port Splitters



### Splitter 'F' Type 5-2400MHz Power Pass All Ports

- » Suitable for both satellite and FTA
- » F-type all port power pass (DC)
- » 5-2400MHz pass
- » Cost-effective
- » Bulk packaging available
- » Available in multiple configurations below

Product Code	Output
07MM-ES02	2 Way
07MM-ES03	3 Way
07MM-ES04	4 Way
07MM-ES06	6 Way
07MM-ES08	8 Way



### Splitter 'F' Type 5-2400MHz Power Pass All Ports

- » Suitable for both satellite/TDT & FTA
- » DC power pass all ports
- » 10dB extra screening with soldered back
- » Frequency range 5-2400MHz
- » Available in multiple configurations below



Product Code	Output	Foxtel Approved	Pack Size
17MM-DM02Q	2 Way	F30937	1
17MM-DM02QB			10 (Bag)
17MM-DM03Q	3 Way	F30938	1
17MM-DM03QB			10 (Bag)
17MM-DM04Q	4 Way	F30939	1
17MM-DM04QB			10 (Bag)
17MM-DM06Q	6 Way	F30958	1
17MM-DM06QB			5 (Bag)
17MM-DM08Q	8 Way	F30959	1
17MM-DM08QB			1 (Bag)



### Splitter for Foxtel SMS Systems Max 30V 2A Power Pass All Ports

- » High isolation splitter for Foxtel SMS systems
- » Max 2A 30V DC pass all ports bidirectional
- » Return loss  $\geq 10$ dB
- » Frequency range 5-2400MHz
- » Insertion loss 3.6dB to 5.8dB from 45-2400MHz
- » Frequency range 5-2400MHz
- » Available in multiple configurations below



Product Code	Output	Foxtel Approved
17MM-DM02S-2A	2 Way	F31038
17MM-DM03S-2A	3 Way	F31039
17MM-DM04S-2A	4 Way	F31040



## Power Pass Single Port Splitters



### 'F' Type Splitter 5-2450MHz AC/DC Power Pass

- » Frequency range: 5-2450MHz
- » AC/DC single port power pass
- » 10dB extra screening with soldered back
- » High visual impact packaging
- » High isolation between outputs
- » Available in multiple configurations below

Product Code	Output
07MM-GM02	2 Way
07MM-GM03	3 Way
07MM-GM04	4 Way
07MM-GM06	6 Way
07MM-GM08	8 Way



### 6 Way Satellite IF Compatible 'F' Type Splitter 17MM-DM16

- » Frequency range 5 - 2400 MHz
- » Return loss 18dB
- » High performance digital splitter
- » Single leg power pass



## Active Taps



### Active Taps

Matchmaster's Johansson active tap series is ideal in domestic and commercial environments for free-to-air TV and Foxtel stacker (SMS) systems. The JA32 tap features a unique double stack design, allowing it to fit the same footprint as the 16 and 8-way unit, making for easy upgrades and use in tight, low space risers where we have to share space with other services. In addition, all taps can be powered remotely or locally and feature built-in slope and gain controls for ease of commissioning.

- » Foxtel approved
- » It can be remotely powered via an input port, output port or locally powered by a DC Aux port
- » Built-in gain and slope controls for satellite with gain control and 4dB fixed slope for terrestrial.
- » Terrestrial frequency range 47-694MHz, satellite frequency range 950-2400MHz
- » Suitable for residential MDU, aged care and commercial FTA and Foxtel systems
- » Small footprint for ease of installation into small riser and enclosure spaces



Product Code	Description	Gain (dB)	Foxtel Approved
14MM-JA08	8 Way Active Tap for FTA and Satellite (Foxtel SMS) 47-2400MHz	12 Ter, 15 Sat	F31049
14MM-JA16	16 Way Active Tap for FTA and Satellite (Foxtel SMS) 47-2400MHz	12 Ter, 15 Sat	F31050
14MM-JA32	32 Way Active Tap for FTA and Satellite (Foxtel SMS) 47-2400MHz	12 Ter, 15 Sat	F31051

## Taps



### High Isolation Tap for MATV, TDT and Satellite

- » Return loss  $\geq 10$ dB
- » Tap loss 12dB
- » Frequency range 5-2400MHz
- » Power pass input to output (excluding 14MM-DM34Q-8T)
- » Compact housing for ease of installation
- » Available in multiple configurations below



Product Code	Output	Loss	Foxtel Approved
17MM-DM32Q-12	2 Way	12dB	F31041
17MM-DM32Q-16		16dB	F31042
17MM-DM32Q-20		20dB	F31043
17MM-DM34Q-8T	4 Way	8dB Terminated	N/A
17MM-DM34Q-12		12dB	F30960
17MM-DM34Q-16		16dB	F30961
17MM-DM34Q-20		20dB	F30964
17MM-DM38Q-20	8 Way	20dB	F30962



### 8 Way Multi-tap 5-1300MHz

#### 17MM-DM68

- » Isolation greater than >25dB to >36dB across the frequency range with return loss >14dB
- » Frequency range from 5...1300 MHz (DOCSIS 3.1 capable)
- » Class A screening (+10 dB), according to EN 50083-2
- » Suitable for installations with high numbers of channels for high inter-modulation suppression
- » Graded TAP loss to cater for different cable lengths
- » Die-cast housing for durability and screening effectiveness



## Wall Plate Splitters and Taps

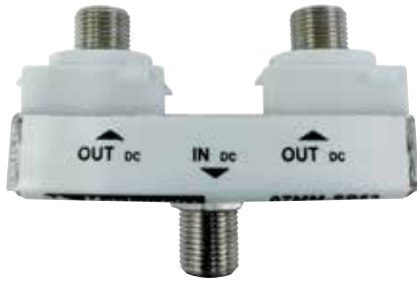


### Loop Plate with Tap Mechanism

- » Ideal for building upgrades that require complex cabling
- » Includes one outlet plate insert
- » Used to distribute TV reception across multiple outlets
- » Also suitable for most Clipsal® outlet plates
- » Available in multiple configurations below



Product Code	Loss	Foxtel Approved
05MM-LP06T	6dB Terminated	N/A
05MM-LP06	6dB	N/A
05MM-LP09	9dB	F31141
05MM-LP12	12dB	F31142
05MM-LP15	15dB	F31146
05MM-LP18	18dB	F31144
05MM-LP21	21dB	F31145



**2 Way Wall Plate Splitter DC Only Power Pass  
(Suits Matchmaster and Clipsal 2000 Series)**

**07MM-SP52C**

- » Frequency range: 5-2400MHz
- » DC only all port power pass
- » 10dB extra screening with soldered back
- » Wall plate fitting with supplied inserts
- » High isolation between outputs
- » Splits cables at the TV point for multiple devices

## CATV Splitters



**CATV Splitter 1GHz**

- » Current capacity 10 Amps
- » Frequency range 5 - 1000 MHz
- » High isolation between outputs
- » Suitable for hardline cable networks
- » Weatherproof housing
- » Available in multiple configurations below

Product Code	Output
17MM-CS02	2 Way
17MM-CS03	3 Way

## CATV Taps



**2 Way CATV Tap 1GHz**

- » High isolation between outputs
- » Frequency range 5 - 1000 MHz
- » Suitable for hardline cable networks
- » Weatherproof housing
- » Modular design
- » Available in multiple configurations below

Product Code	Loss
17MM-C204	4dB
17MM-C208	8dB
17MM-C211	11dB
17MM-C214	14dB
17MM-C217	17dB
17MM-C220	20dB
17MM-C223	23dB
17MM-C226	26dB
17MM-C229	29dB
17MM-C232	32dB

# Splitters and Taps



## 4 Way CATV Tap Terminated 1GHz

- » High isolation between outputs
- » Frequency range 5 - 1000 MHz
- » Suitable for hardline cable networks
- » Weatherproof housing
- » Modular design
- » Available in multiple configurations below

Product Code	Loss
17MM-C408	8dB
17MM-C411	11dB
17MM-C414	14dB
17MM-C417	17dB
17MM-C420	20dB
17MM-C423	23dB
17MM-C426	26dB
17MM-C429	29dB
17MM-C432	32dB



## 8 Way CATV Tap 1GHz

- » High isolation between outputs
- » Frequency range 5 - 1000 MHz
- » Suitable for hardline cable networks
- » Weatherproof housing
- » Modular design
- » Available in multiple configurations below

Product Code	Loss
17MM-C811	8dB
17MM-C814	14dB
17MM-C817	17dB
17MM-C820	20dB
17MM-C823	23dB
17MM-C826	26dB
17MM-C829	29dB
17MM-C832	32dB

## CATV Accessories



## CATV Power Inserter 5-1000MHz

### 17MM-PI60

- » Current capacity 10 Amps
- » Frequency range 5 - 1000 MHz
- » Low insertion loss <1.5dB
- » High isolation RF/AC >= 60dB
- » High return loss

# Installation Hardware

Product Catalogue



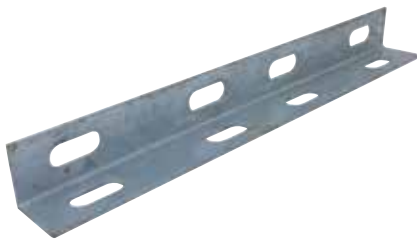
## Accessories



### 180m Catenary Wire Roll

#### 11MM-CW180

- » 180m guy wire
- » Used to stabilise antenna masts over 12"
- » Galvanised steel
- » Heavy-duty construction
- » Foxtel approved (F10208)



### Heavy-duty Guy Wire Anchor Plate (4 Pack)

#### 11MM-GAP/4

- » Heavy-duty hot dip galvanised guy anchor plates for masting
- » 4 points of surface securing and 4 points of attachment per plate
- » Can mount to tin roofs, concrete and timber surfaces with the use of suitable fastenings
- » Convenient four-pack
- » Ideal for anchoring antenna masts, including telescopic masts



### Guy Cleat Surface Anchor (4 Pack)

#### 11MM-GC/4

- » Can be mounted to any tin/timber
- » Galvanised finish
- » Convenient 4 pack
- » Heavy-duty construction



### Guy Clamp Assembly

- » Used to tie guy wire to a mast
- » Clamp kit for attaching to a mast
- » Includes guy plate and lock ring
- » Available in multiple configurations below



Product Code	Diameter
11MM-GCA32	32mm (1.25")
11MM-GCA38	38mm (1.5")



### Hockey Stick Stay Bar Collar (25-32mm)

#### 11MM-HC01

- » Used to connect and support stay bar to mast
- » Dual lock on bolts for extra stability to prevent shifting
- » Compact, simple design
- » Galvanised finish
- » Heavy-duty construction





## Heavy-duty Antenna Nest

### 11MM-HDN

- » Galvanised finish
- » Heavy-duty construction
- » Used with a U bolt to clamp antenna or masting
- » Design with grip teeth for extra stability to prevent antenna shifting



## Caravan Mast Bracket Clamp

### 11MM-MC

- » Used to attach antenna mast to caravan tow bracket
- » Metallic finish
- » Heavy-duty construction
- » Compact design
- » Dual lock on bolts for extra stability to prevent shifting



## 1.5m Mast Extension Kit

### 11MM-MEK

- » Used to extend a mast by an extra 1.5m
- » Includes U-bolt, nuts and washers
- » Galvanised finish
- » Design with grip teeth for extra stability to prevent mast shifting
- » Distance between clamps 335mm
- » Mast diameter 25mm



## Hockey Stick Metal Fascia Support Bracket

### 11MM-MFB

- » Used to provide extra support for Colorbond® fascias
- » Keeps hockey stick secure to fascias
- » Suitable for high wind areas
- » Galvanised finish
- » Reduces flexing on fascia



## 20m x 19mm Black Insulation Tape

### 11MM-NIT

- » PVC tape for electrical insulation
- » Superior adhesion
- » Excellent in low temperature resistance
- » Environmentally friendly, lead-free



## Plastic Cap for Masts

- » Plastic cap that is placed on the top of a mast
- » Weather resistant
- » Colour: black
- » Easy to install
- » Durable
- » Available in multiple configurations below

Product Code	Diameter
11MM-PC25	25mm (1")
11MM-PC32	32mm (1.25")



## Cable Dispenser Frame

### 11MM-REEL01

- » Metal frame that supports a roll of cable
- » Allows easy access and dispensing of cable
- » Metallic steel finish
- » Heavy-duty construction



## Silicon Adhesive Tube

### 11MM-SIO1

- » Multi-purpose silicon adhesive
- » Low odour
- » Permanently flexible
- » Industrial grade
- » Ultra violet resistance
- » Superior adhesion



## 15" Vertical Mounting Standoff Boom

### 11MM-SM1-15

- » Stand off boom used to install an antenna vertically
- » Galvanised finish
- » Includes U-bolt and nest
- » Weather resistant



## Turnbuckle Hook and Eye

- » Plastic cap that is placed on the top of a mast
- » Weather resistant
- » Colour: black
- » Easy to install
- » Durable
- » Available in multiple configurations below

Product Code	Diameter	Pack Size
11MM-TB6/4	6.3mm (1/4")	4
11MM-TB8/4	7.9mm (5/16")	



## 6-8mm Cable Clip (100 Pack)

### 11MM-TC6-8/100

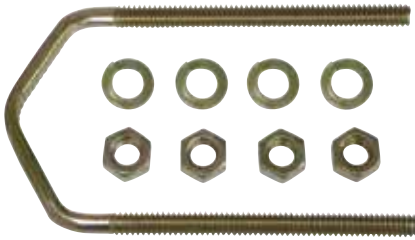
- » Round cable clip
- » Ideal for telephone, coaxial and data cable
- » Tough and flexible
- » Discrete design



## Guy Wire Thimble Pack for Masting Guy Ring Plate (4 Pack)

### 11MM-TH6/4

- » Chromate conversion coating for protection from corrosion
- » Quad pack to allow for tripod or square set guy wire set up
- » Designed to work with 32 and 38mm guy ring plates with 11MM-CW180 galvanised guy wire
- » Can be used with 11MM-WRG/4 wire rope grips and 11MM-TB6/4 or TB8/4 turn buckles



## U-bolt

- » Used for mounting antennas to masts using a nest
- » Includes nuts and washers
- » Strong and sturdy design
- » Available in multiple configurations below

Product Code	Diameter	Pack Size
11MM-UB6M/2	95.2x6.35mm (3.75"x1/4")	2
11MM-UB8M/2	107.95x7.94mm (4.25"x5/16")	



## Universal Mast Clamp

### 11MM-UNV

- » Suitable for wall mount applications
- » Galvanised finish
- » Design with grip teeth for extra stability to prevent mast shifting
- » Heavy-duty construction



## Wire Rope Grip (8 Pack)

### 11MM-WRG/8

- » Convenient 8 pack
- » Used for gripping the ends of catenary wire together
- » Metallic Steel finish
- » Foxtel approved (F10210)
- » Used with Matchmaster's catenary wire (11MM-CW180)



## 5" (127mm) Eye Screw with Wood Thread (4 Pack)

### 11MM-WTSE5/4

- » Used for anchoring to a timber surface
- » Convenient four-pack
- » Ideal for fixing guy wires for masting
- » Zinc plated for corrosion resistance



## Duo Cleat for Corrugated Metal Roofs

### 13MM-DUOCLEAT

- » Spreads load across two corrugation ridges to strengthen mounts for high wind load areas
- » Made in Australia from galvabond steel for maximum durability
- » Supplied with two rubber washers and two roof Tek screws
- » Perfect for use with Matchmaster's SM and UM series metal roof and universal roof mounts
- » Supplied with fixed mounting stud and nut



## Fascia Mounts



### Fascia Mount with J Hook Attachment for Optus Cable

- » NBN and Optus approved
- » Galvanised finish
- » Australian made
- » Available in multiple configurations below

Product Code	Length
11MM-FM300	0.3m
11MM-FM1000	1m



### Mount Curved Fascia

- » Made from hot-dipped galvanised steel for durability and long-life use.
- » 200mm depth from fascia mounting plate to clear standard gutters
- » Popular height for optimal antenna positioning while remaining discrete
- » Quick and easy installation by pre-drilled holes and slotted fastening points
- » Strong and sturdy design for maximum durability
- » Available in multiple configurations below

Product Code	Length
11MM-HS48	1.2m
11MM-HS63	1.6m
11MM-HS72	1.8m
11MM-HS108	2.7m



### 1.84m Curved Fascia Mount (200mm Protrusion) - Stainless Steel with Matt Black Powder Coating

#### 11MM-HSS72

- » Made from 316 marine grade stainless steel with a matt black powder-coated finish for optimum corrosion protection and peace of mind
- » Perfect for use in coastal areas where salt corrosion destroys standard metals
- » Durable black powder coating allows discrete installation to the modern roofline for optimal aesthetics
- » 1.84m height for optimal antenna positioning
- » Quick and easy installation by pre-drilled holes and slotted fastening points
- » Strong and sturdy design for maximum durability



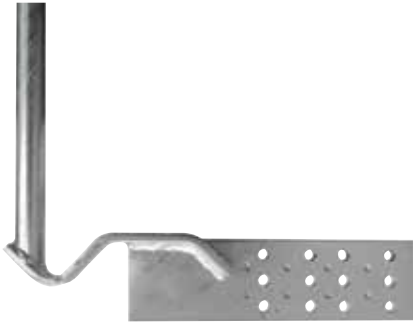
### Fascia Mount with Pigtail Hook Attachment

- » Hot dipped galvanised to Australian standard (AS/NZS 4680:2006)
- » Australian made
- » Includes pigtail hook for catenary wire attachment
- » Telstra and NBN approved
- » Available in multiple configurations below

Product Code	Length
11MM-TFM300	0.3m
11MM-TFM1000	1m



## Gutter Mounts



### Gutter Kit

- » Suitable for attaching TV antennas and amplifiers
- » Allows mounting around a roof gutter
- » Galvanised finish
- » Bolts to rafter under roof tiles and protrudes above guttering
- » Heavy duty construction
- » Available in multiple configurations below

Product Code	Length
11MM-CM01	1.65m
11MM-CM02	1.2m



### Gutter Kit with Separate Mast

- » Separate mast for pre-installation of antenna and amplifier
- » Allows mounting around a roof gutter
- » Galvanised finish
- » Bolts to rafter under roof tiles and protrudes above guttering
- » Heavy-duty construction
- » Available in multiple configurations below

Product Code	Length	Foxtel Approved
11MM-CM03	1.8m	F31194
11MM-CM04	1.2m	N/A



## Masts



### Masts

- » Suitable for attaching TV antennas and amplifiers
- » Round mast tube
- » Steel finish
- » Can be used with tile, metal, clip lock and colour bond roof mounts
- » Available in multiple configurations below

Product Code	Length
11MM-4FTS	1.22mx2.54cm (4'x1")
11MM-6FTS	1.83mx2.54cm (6'x1")
11MM-10FTM	3.05mx3.17cm (10'x1.25")
11MM-15FTL	4.57x3.81cm (15'x1.50")



### 1.5m Mast Extension Kit

#### 11MM-MEK

- » Used to extend a mast by an extra 1.5m
- » Includes U-bolt, nuts and washers
- » Galvanised finish
- » Design with grip teeth for extra stability to prevent mast shifting
- » Distance between clamps 335mm
- » Mast diameter 25mm



## Rafter Mounts



### 1.84m Rafter Mount

- » Used for securing an antenna to roof rafters
- » Galvanised finish
- » Mount secured using coach bolts
- » Weather resistant
- » Available in multiple configurations below

Product Code	Mast Diameter
11MM-RM	25.4mm
11MM-RMHD	32mm



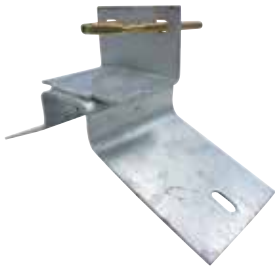
### Rafter Mount with J Hook Attachment for Optus Cable

- » Telstra and Optus approved
- » Galvanised finish
- » Australian made
- » Available in multiple configurations below

Product Code	Length
11MM-RM300	0.3m
11MM-RM1000	1m



## Roof Mounts



### Iron Roof Mount

#### 11MM-IRM

- » Shaped to fit the profile of standard steel roof ridge capping
- » Includes U-bolt, nuts and washers
- » Galvanised finish
- » Heavy-duty construction



### Right Angle Roof Mount

#### 11MM-LARM

- » Used to attach a mast to a flat/corrugated surface roof
- » Includes U-bolt, nuts and washers
- » Galvanised finish
- » Heavy-duty construction



### Roof Bracket with Cable Loop

#### 11MM-P-HOOK

- » Roof bracket with a P-loop to feed cable
- » Optus (36973) and NBN approved
- » Galvanised finish
- » Heavy-duty construction





## Stramit Roof Mount (2 Pack)

### 11MM-SRD

- » Specially designed mount to fit stramit or clip lock roof profiles with no penetrating holes
- » Cleats clamp to roof profiles with pinch bolts
- » Support masts up to 2.4m tall
- » Galvanised finish
- » Mast sold separately



## 1.2m Tripod Mount for Metal Roofs

### 11MM-TRIPOD-M

- » Designed for mounting on metal roofing
- » Australian galvanised finish for optimum corrosion protection and peace of mind
- » Two-piece kit consisting of a base plate with a 1.2m mast
- » Quick and easy installation by using existing roof screw points
- » Sturdy and robust design for maximum durability



## 1.2m Tripod Mount for Metal Roofs

### 11MM-TRIPOD-MAU

- » Australian designed, Australian made, Australian quality
- » Designed for mounting on metal roofing
- » Manufactured and Australian galvanised finish for optimum corrosion protection and peace of mind
- » Two-piece kit consisting of a base plate with a 1.2m mast
- » Quick and easy installation by using existing roof screw points
- » Sturdy and robust design for maximum durability



## 1.2m Tripod Mount for Metal Roofs - Stainless Steel with Black Powder Coating

### 11MM-TRIPOD-MSS

- » Made from 316 marine grade stainless steel with a matt black powder-coated finish for optimum corrosion protection and peace of mind
- » Perfect for use in coastal areas where salt corrosion destroys standard metals
- » Durable black powder coating allows discrete installation to the modern roofline for optimal aesthetics
- » Two-piece kit consisting of a base plate with a 1.2m mast
- » Quick and easy installation by using existing roof screw points
- » Strong and sturdy design for maximum durability

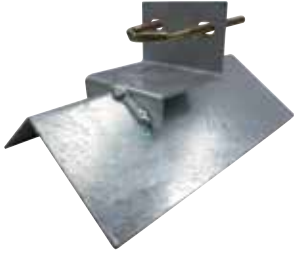


## 1.2m Tripod Mount for Tiled Roofs

### 11MM-TRIPOD-T

- » Designed for mounting on tiled roofing
- » Australian galvanised finish for optimum corrosion protection and peace of mind
- » Two-piece kit consisting of a base plate with a 1.2m mast
- » Quick and easy installation
- » Sturdy and robust design for maximum durability

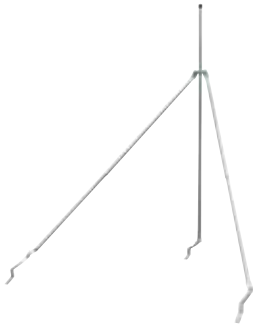




## Medium-duty Tile Roof Mount

### 11MM-TRM-MD

- » Ideal for mounting a mast on the ridge of a tile roof
- » Suitable for lighter gage masting (maximum of a 15' mast) and new tiled roofs
- » Galvanised finish
- » -120° tile ridge
- » Includes U-bolt and nest



## Universal Roof Mount with Mast

- » Ideal for mounting on a tile roof, tin roof and concrete surfaces
- » Non penetrating design for tile roofs
- » Z-brackets design to slide under tiles for securing to rafters
- » Galvabond steel
- » Includes mast
- » Available in multiple configurations below

Product Code	Mast
11MM-UM01	1.8m
11MM-UM02	2.4m



## 590mm Metal Roof Mount for ISP (Internet) Satellite Dishes

### 13MM-SM20

- » Heavy-duty ISP antenna mount for metal roofs and concrete pads
- » Install on pitched or flat surfaces with telescoping support arms for ease of installation
- » 590mm mast height for a discrete installation
- » Made from high-quality galvabond steel
- » No modification is required to the ISP dish leg, so the manufacturer warranty is not voided
- » Proudly made in Australia



## Metal Roof Mount with 1.5m Mast for ISP (Internet) Satellite Dishes

### 13MM-SM21

- » 1.5m heavy-duty ISP antenna mount for metal roofs and concrete pads
- » Install on pitched or flat surfaces with telescoping support arms for ease of installation
- » 1.5m mast height to improve line of sight and minimise heat radiation from the mounting surface affecting the operation of the active antenna
- » Made from high-quality galvabond steel
- » No modification is required to the ISP dish leg, so the manufacturer warranty is not voided
- » Proudly made in Australia



## 1.8m Tin Roof Tripod Mount

### 55MM-SM18

- » 1.8m metal roof mount suitable for ISP, Cellular, TV and Radio antennas
- » Heavy duty 28mm mast outside diameter
- » Telescoping support arms for ease of installation
- » Ideal for cladding rib heights between 16mm and 30mm and rafter and batten spacing from 900-1200mm
- » High-quality galvabond steel
- » Proudly made in Australia





## 3m Telescopic Tripod Mount

### 55MM-SM19

- » 3m telescoping metal roof mount suitable for ISP, cellular, TV and radio antennas
- » Heavy-duty 45mm/38mm lower and upper pole section outside diameters
- » Telescoping support arms for ease of installation
- » Adjustable height up to 3m max. allowing for optimal signal adjustment
- » High-quality galvabond steel
- » Proudly made in Australia



## ISP Mounts



## 590mm Metal Roof Mount for ISP (Internet) Satellite Dishes

### 13MM-SM20

- » Heavy-duty ISP antenna mount for metal roofs and concrete pads
- » Install on pitched or flat surfaces with telescoping support arms for ease of installation
- » 590mm mast height for a discrete installation
- » Made from high-quality galvabond steel
- » No modification is required to the ISP dish leg, so the manufacturer warranty is not voided
- » Proudly made in Australia



## Metal Roof Mount with 1.5m Mast for ISP (Internet) Satellite Dishes

### 13MM-SM21

- » 1.5m heavy-duty ISP antenna mount for metal roofs and concrete pads
- » Install on pitched or flat surfaces with telescoping support arms for ease of installation
- » 1.5m mast height to improve line of sight and minimise heat radiation from the mounting surface affecting the operation of the active antenna
- » Made from high-quality galvabond steel
- » No modification is required to the ISP dish leg, so the manufacturer warranty is not voided
- » Proudly made in Australia



## 1.8m Tin Roof Tripod Mount

### 55MM-SM18

- » 1.8m metal roof mount suitable for ISP, Cellular, TV and Radio antennas
- » Heavy duty 28mm mast outside diameter
- » Telescoping support arms for ease of installation
- » Ideal for cladding rib heights between 16mm and 30mm and rafter and batten spacing from 900-1200mm
- » High-quality galvabond steel
- » Proudly made in Australia





## 3m Telescopic Tripod Mount

### 55MM-SM19

- » 3m telescoping metal roof mount suitable for ISP, cellular, TV and radio antennas
- » Heavy-duty 45mm/38mm lower and upper pole section outside diameters
- » Telescoping support arms for ease of installation
- » Adjustable height up to 3m max. allowing for optimal signal adjustment
- » High-quality galvabond steel
- » Proudly made in Australia



## Stay Bars



## Hockey Stick Stay Bar Pair

- » Provides extra antenna mast or hockey stick support
- » Round tube with mounting holes at each end
- » Metallic steel finish
- » Used in conjunction with a hockey stick stay bar collar (11MM-HC01)
- » Available in multiple configurations below

Product Code	Length
11MM-HSS4FT	1.2m
11MM-HSS6FT	1.8m
11MM-HSS8FT	2.4m



## Telescopic Masts



## Telescopic Mast including Rigging Kit

- » Tubular extendable mast
- » Includes guying ring plates for mounting
- » Galvanised finish
- » Heavy-duty construction
- » Collapse length: 3.37m
- » Available in multiple configurations below

Product Code	Maximum Length
11MM-MT20	6.10m (20')
11MM-MT30	9.14m (30')
11MM-MT50	15.24m (50')

## Under Eave Mounts



### 1.6m Under Eave Mount

#### 11MM-HS64UE

- » Hot dipped galvanised finish
- » Curved steel tube to fit under roof eave
- » Protrudes 340mm
- » Heavy-duty construction



## Wall Mounts



### 12" (305mm) Wall Fitting with Nest and U-bolt

#### 11MM-DWF12AS

- » Suitable for mounting masts to walls/fascias
- » Includes U-bolt and nest
- » Galvanised finish
- » Heavy-duty construction



### Short Curved Mounting Bracket

#### 11MM-SQMB

- » Suitable rear mount antennas and Matchmaster's omnidirectional VHF/UHF antenna (01MM-SL01)
- » Hot-dip galvanised finish
- » Ideal for apartments and discrete installations
- » Compact design



### Wall Mount Kit including 12" and 27" Wall Mounts with Clamps

#### 11MM-WB17KIT

- » Ideal for mounting an antenna on a wall and fascias
- » Suitable for brick or timber walls
- » Includes brackets, U-bolt, nuts and washers
- » Galvanised finish protecting from oxidation



### Wall Mount

- » Ideal for mounting an antenna on a wall or eave
- » Suitable for brick or timber walls
- » Heavy-duty construction
- » Galvanised finish
- » Available in multiple configurations below

Product Code	Length
11MM-WF12	305mm (12")
11MM-WF27	686mm (27")
11MM-WF36	914mm (36")
11MM-WF55LW	1.4m (55")





*For the Best*

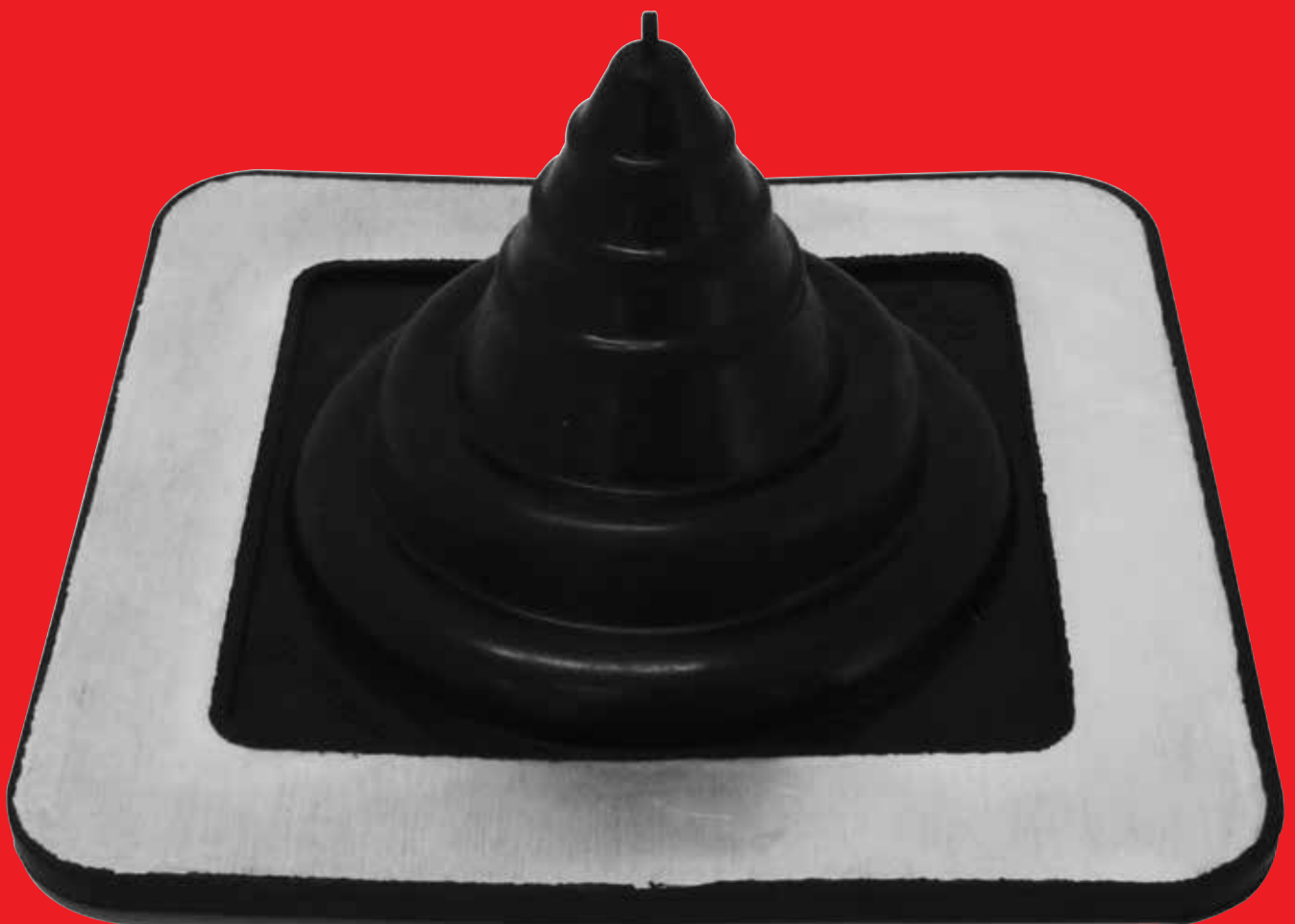


You may also need  
**8K HDMI® Leads**  
See page 114



# Roof Seals & Penetrations

Product Catalogue



## Rubber Roof Seals



### Rubber Roof Seal Black (0-35mm)

#### 11MM-RB01

- » Roof seal for penetration size: 0-35mm
- » Made from durable black UV rated EPDM rubber
- » Integrated heavy-duty aluminium base for moulding to match roof profile for the ultimate seal
- » Cut at the required diameter to form a perfect seal around your conduit, pole or cables
- » Can be screwed down to surfaces to fix in place permanently
- » Designed for use in Australia's harsh heat and high UV environments



### Rubber Roof Seal Black with Four Cable Penetrations (5-55mm) (10 Pack)

#### 11MM-RB02

- » Roof seal for penetration size: 5-55mm
- » Made from durable black UV-stable EPDM rubber
- » 4 x cable penetrations included for flexible use in solar or communications cabling
- » Simply cut at the required diameter to form a perfect seal around your conduit, pole or cables
- » Integrated heavy-duty aluminium base for moulding to match roof profile for the ultimate seal
- » Designed for use in Australia's harsh heat and high UV environments

## Kits



### Top Hat Roof Kit

- » Suitable for harsh environments - manufactured from corrosion resistant materials
- » Multi pipe penetration kit with all required components to get the job completed
- » Kit includes instruction sheet, black cable tie (150mm length), 12x 10G SDS screws (16mm length), 2x grey Dektite adhesive (50ml), PVC cap (DN65), slotted pipe (DN50) and square base flashing
- » Available in multiple configurations below



Product Code	Clearance Size	Diameter Nominal
11MM-DTHRKIT50	48mm	50DN
11MM-DTHRKIT65	65mm	65DN
11MM-DTHRKIT80	76mm	80DN
11MM-DTHRKIT110	103mm	110DN

## Repair Strips

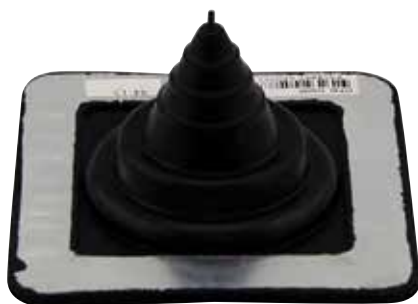


### 0.5m Black Self Adhesive Repair Strip 11MM-RFRBL140

**DEKS™**

- » Black in colour and UV rated
- » Self-adhesive repair strip for quick repair of roof and gutter leaks
- » Eco-friendly - contains no environmentally harmful substances
- » Lead free - free from lead and other heavy metals
- » Suits all profiles and most metal, fibreglass, polycarbonate and tile roof materials
- » Lead free and easy to cut to size with heavy duty scissors

## Rubber Seals



### Dektite Rubber Premium

**DEKS™**

- » Aluminium base that can be formed to suit your roof profile
- » Dektite has unique rubber boot design that provides contact with flashing pipe to create a perfect watertight seal
- » Rubber Dektite designed to withstand high temperatures of up to 115°C
- » Available in multiple configurations below

Product Code	Penetration	Colour
11MM-DFE100B	0-35mm	Black
11MM-DFE100G	0-35mm	Grey
11MM-DFE101B	5-55mm	Black
11MM-DFE102BA	50-70mm	Black
11MM-DFE103B	5-127mm	Black



### Dektite Rubber Premium Solar

**DEKS™**

- » Aluminium base that can be formed to suit your roof profile
- » Dektite comes with two additional ports suitable for cables
- » Dektite has unique rubber boot design that provides contact with flashing pipe to create a perfect watertight seal
- » UV rated rubber Dektite designed to withstand high temperatures of up to 115°C
- » Available in multiple configurations below

Product Code	Penetration	Colour
11MM-DFE100BS	0-35mm	Black
11MM-DFE100GS	0-35mm	Grey
11MM-DFE101BS	5-55mm	Black



### Dektite Nu-Lead Black (12-70mm)

#### 11MM-DNL101B

**DEKS™**

- » Weather-resistant EPDM Dektite with a grey primed acrylic coated lead base that is ideal for tile roofs
- » EPDM Dektite with penetration size from 12mm to 70mm
- » Flashing base dimensions 410mm x 490mm
- » Thermo baked coating to prevent leaching
- » Black EPDM working temperature - 50°C (-122°F) to 115°C (239°F)
- » UV stabilized and water resistant

# Roof Seals & Penetrations



## Dektite Rapid Flash Antenna and Solar Black/Grey (6-50mm)

**11MM-DRF100GB-A**

- » Foxtel (F31136) approved. Ideal solution for antenna and solar penetrations (6-50mm)
- » Fast to install, requiring 50% less time than metal based solutions with no other products on the market delivering such an attractive finish
- » This Dektite base dresses down perfectly to all roofing material profiles
- » Aesthetically pleasing finish that matches all roof colours
- » Lead free - free from lead and other heavy metals
- » Black Dektite, grey flashing and UV rated



**DEKS™**

## Silicone Seals



## Dektite Silicone Solar

- » Aluminium base that can be formed to suit your roof profile
- » Red silicone Dektite designed to withstand extreme temperatures from -50°C to 200°C
- » Dektite has unique rubber boot design that provides contact with flashing pipe to create a perfect watertight seal
- » Silicone material suitable for harsh environments
- » Available in multiple configurations below

**DEKS™**

Product Code	Penetration	Colour
11MM-DFE200RES	0-35mm	Red
11MM-DFE201RES	5-55mm	Red

# Cellular and 2-Way Radio

Product Catalogue



## Cable



### Coaxial Cable LL/LMR195 Type 5mm Low Loss Double Shielded

- » LL/LMR195 type coaxial cable is suitable for radio transmission, mobile 3G/4G and 5G cellular systems
- » Impedance: 50Ω nominal
- » The velocity of propagation - 66%
- » Cut and terminate to the exact lengths required
- » Outside diameter: 4.95mm±0.05
- » Capacitance 98.4pF/M
- » Available in multiple configurations below

Product Code	Length
56MM-E195-1	Minimum 1m (cut to length) Maximum 50m
56MM-E195-100	100m



### RG213 Coaxial Cable 50 Ohm Single Braided 10mm Cable

- » RG213 coaxial cable suitable for radio transmission, amateur radio and base radio antenna station. Cable is cut to length in 1m increments
- » Impedance: 50Ω nominal
- » Velocity of propagation - 66%
- » Cut and terminate to the exact lengths required
- » Frequency range 30-1000MHz
- » Capacitance 90pF/M
- » Available in multiple configurations below

Product Code	Length
56MM-E213-1	Minimum 1m (cut to length) Maximum 50m
56MM-E213-100	100m



### Coaxial Cable LMR-LL400 Type 10mm Low Loss Broadband Communication Cable

- » 305m roll of LMR/LL400 low loss cable for cellular antenna systems
- » Impedance: 50 ± 1 Ω
- » Velocity of propagation - 85%
- » Cut and terminate to the exact lengths required
- » Frequency range 30-2500MHz
- » Return loss ≥ 20 dB
- » Available in multiple configurations below

Product Code	Length
56MM-E400-1	Minimum 1m (cut to length) Maximum 50m
56MM-E400-100	100m
56MM-E400	305m





## Coaxial Cable RG58C/U Type 5mm, Made to MIL-C-17D Spec

- » RG58C/U coaxial cable suitable for radio transmission, amateur radio and base radio antenna station - cable can be cut to length in 1m increments
- » Impedance: 50Ω nominal
- » Velocity of propagation - 66%
- » Cut and terminate to the exact lengths required
- » Frequency range 30-1000MHz
- » Capacitance 98.4pF/M
- » Available in multiple configurations below

Product Code	Length
56MM-E58-1	Minimum 1m (cut to length) Maximum 50m
56MM-E58-100	100m
56MM-E58-500	500m



## 100m Coaxial Cable Roll Low Loss RG58, Double Shielded 56MM-E58LL-100

- » 100m low loss RG58 coaxial cable suitable for radio transmission, amateur radio and base radio antenna station
- » Impedance: 50Ω nominal
- » The velocity of propagation - 75%
- » Cut and terminate to the exact lengths required
- » Frequency range 30-1000MHz
- » 300V RMS maximum operating voltage



## Coaxial Cable .500" Corrugated Low Loss Broadband Communication Cable

- » .500" (half-inch) corrugated, low loss feeder cable for cellular and communications systems
- » Impedance: 50 ± 1 Ω
- » The velocity of propagation - 88%
- » Cut and terminate to the exact lengths required
- » Frequency range 5-3000MHz
- » Screening attenuation >120dB
- » Available in multiple configurations below

Product Code	Length
56MM-E500-1	Minimum 1m (cut to length) Maximum 50m
56MM-E500-200	200m



## Coaxial Cable 7/8" Corrugated Low Loss Broadband Communication Cable

- » 500m roll of 7/8" corrugated low-loss feeder cable for cellular and communications systems
- » Impedance: 50 ± 1 Ω
- » The velocity of propagation - 88%
- » Cut and terminate to the exact lengths required
- » Frequency range 5-5000MHz
- » Screening attenuation >120dB
- » Available in multiple configurations below

Product Code	Length
56MM-E750-1	Minimum 1m (cut to length) Maximum 60m
56MM-E750-200	200m
56MM-E750-500	500m

## Adaptors



### FME Plug to SMA Plug Adaptor

#### 56MM-FME-SMAP

- » Used to adapt from an FME to an SMA socket
- » Suitable for 56MM-4G04 for connecting to a Cel-Fi unit
- » Made from brass metal parts with a gold plated centre pin and nickel-plated body
- » Teflon dielectric
- » Reliable, robust and durable



### 'N' Type Plug to SMA Socket Adaptor

#### 56MM-NM-SMAF

- » Used to join two cables together when adapting between SMA and N-type fittings
- » Centre pin gold plated
- » Standard 5/8-24 UNEF-2A thread
- » Frequency range to 4GHz (maximum)
- » Brass body with nickel plating
- » ≥ 500 cycle durability



### 'N' Plug to 'N' Plug Adaptor

#### 56MM-NPNP

- » Used to join two cables together when patching two 'N' Female connectors together
- » Centre pin gold plated
- » Standard 5/8-24 UNEF-2A thread mating
- » Frequency range up to 4GHz
- » Brass body with nickel plating
- » ≥ 500 cycle durability



### 'N' Socket to 'N' Socket with Nut and Washer for Bulkhead Mounting

#### 56MM-NSNS

- » Used to join two cables together when patching two N male connectors together
- » Centre pin gold plated
- » Standard 5/8-24 UNEF-2A thread
- » Bulkhead mounting for creating patch panels
- » Brass body with nickel plating
- » ≥ 500 cycle durability



### 'N' Plug to 'N' Socket Right Angle Adaptor

#### 56MM-NPNS-RA

- » 90-degree N-type adaptor for use in tight spaces
- » Standard 5/8-24 UNEF-2A thread
- » Made from Brass metal parts with a gold-plated centre pin and nickel-plated body
- » Teflon dielectric
- » ≥ 500 cycle durability



## SMA Plug to SMA Socket Right Angle Adaptor

### 56MM-SMA-RA

- » 90-degree SMA Type adaptor for use in tight spaces
- » Eliminate tight bends in cables
- » Centre pins and body gold plated
- » Operating frequency range to 6 GHz, covering sub-6 GHz wireless applications such as n/ac/ax Wi-Fi and multipoint networking
- » Teflon Dielectric
- » ≥ 500 cycle durability



## SMA Plug to SMA Plug Adaptor

### 56MM-SMAP-P

- » Used to join two cables together when patching two SMA Female connectors together
- » Centre pins and body gold plated
- » Operating frequency range to 6 GHz, covering sub-6 GHz wireless applications such as n/ac/ax WiFi and multipoint networking
- » The adaptor enables antennas and cables terminating with SMA Female to connect to SMA equipment, such as cellular modems/routers, GPS receivers, etc.
- » ≥ 500 cycle durability



## SMA Socket to SMA Socket Adaptor with Nut and Washer for Bulkhead Mounting

### 56MM-SMAP-S

- » Used to join two cables together when patching two SMA Male connectors together
- » Centre pins and body gold plated
- » Operating frequency range to 6 GHz, covering sub-6 GHz wireless applications such as n/ac/ax WiFi and multipoint networking.
- » The adapter allows bulkhead mounting for interconnecting cables needing connection through a penetrated surface.
- » ≥ 500 cycle durability

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## Connectors



## 4.3-10 Plug for LL400/LMR400 50 Ohm Spring Finger

### 56MM-43-10P

- » 4.3-10 type connector for use with 56MM-E400 series cable
- » Impedance: 50Ω nominal with DC-6GHz frequency range
- » Temperature range of -45 to +125 degrees celsius
- » Brass body with SUCO plating and beryllium copper silver-coated centre pin
- » Internal silicon rubber gasket for waterproofing
- » Passive intermodulation: (2 x 20W) -150dBc

# Cellular and 2-Way Radio



## 4.3-10 Plug to 'N' Socket Adaptor

### 56MM-4310P-NS

- » Adapt from 4.3-10 sockets to N-type sockets
- » Weatherproof gasket integrated to 4.3-10 interface
- » Designed for adapting modern antennas, splitters, combiners and any other 4.3-10 socket connections.
- » Allows quick adaption without the need to re-terminate cables
- »  $\geq 500$  cycle durability



## 4.3-10 Right Angled Plug for LL400/LMR400 50 Ohm Spring Finger

### 56MM-43-10PRA

- » 4.3-10 right-angled connector for use with 56MM-E400 series cable
- » Impedance: 50 $\Omega$  nominal with DC-6GHz frequency range
- » Temperature range of -45 to +125 degrees Celsius
- » Brass body with SUCO plating and beryllium copper silver-coated centre pin
- » Internal silicon rubber gasket for waterproofing
- » Passive intermodulation: (2 x 20W) -150dBc



## 4.3-10 Socket (Female) for LL400/LMR400 50 Ohm Spring Finger

### 56MM-43-10S

- » 4.3-10 Socket (female) connector for use with 56MM-E400 series cable
- » Impedance: 50 $\Omega$  nominal with DC-6GHz frequency range
- » Temperature range of -45 to +125 degrees Celsius
- » Brass body with SUCO plating and beryllium copper silver-coated centre pin
- » Internal silicon rubber gasket for waterproofing
- » Passive intermodulation: (2 x 20W) -150dBc



## BNC Crimp Plug for RG213 Cable

### 56MM-BNC213

- » Crimp style BNC for use with 10mm OD 50 ohm RG213 coaxial cables
- » Impedance: 50 $\Omega$  nominal
- » Durability  $\geq 500$  cycle
- » Nickel-plated brass connector and gold plated centre pin, solder centre or crimp
- » Suitable up to 2GHz
- » Teflon dielectric



## BNC Clamp Plug for RG213 Cable

### 56MM-BNC213CL

- » Clamp style BNC for use with 10mm OD 50 ohm RG213 coaxial cables
- » Impedance: 50 $\Omega$  nominal
- » Durability  $\geq 500$  cycle
- » Nickel-plated brass connector and gold plated centre pin, solder style
- » Suitable up to 2GHz
- » Teflon dielectric



## BNC Crimp Plug for RG58 and LL195 Type Cables

### 56MM-BNC58

- » BNC plug for use with 5mm OD 50 Ohm coaxial cables including RG58 and LL-LMR195 type cables
- » Impedance: 50Ω nominal
- » Gold plated centre pin, crimp 1.6mm
- » Nickel-plated brass connector and gold plated beryllium copper centre pin, solder style
- » Suitable up to 2GHz
- » Designed for crimping using Hex 5.4mm



## BNC Crimp Socket for RG58 and LL195 Type Cables

### 56MM-BNC58F

- » BNC socket for use with 5mm OD 50 Ohm coaxial cables including RG58 and LL-LMR195 type cables
- » Impedance: 50Ω nominal
- » Gold plated centre pin, crimp 1.6mm
- » Nickel-plated brass for the main body of the connector
- » Suitable up to 2GHz
- » Designed for crimping using hex 5.4mm



## BNC Right Angled Crimp Plug for RG58 and LL195 Type Cables

### 56MM-BNC58L

- » Right-angled BNC for use with 5mm OD 50 ohm coaxial cables including RG58 and LL-LMR195 type cables
- » Impedance: 50Ω nominal
- » Gold plated centre pin, crimp 1.6mm
- » Nickel-plated brass connector and gold plated beryllium copper centre pin, solder style
- » Suitable up to 2GHz
- » Designed for crimping using hex 5.4mm



## 'N' Plug for LL/LMR195/RG58 50 Ohm Crimp

### 56MM-N058

- » N058 N-type connector for use with 56MM-E58 series cable
- » Impedance: 50Ω nominal
- » The shield screw thread connection conforms to the proper 5/8"-24UNEF-2B standard imperial thread
- » Brass body with nickel plating with phosphor bronze contact pin with gold plating



## 'N' Socket for LL/LMR195/RG58 50 Ohm Crimp

### 56MM-N058S

- » N-type socket connector for use with 56MM-E58, E58LL and E195 series cable
- » Impedance: 50Ω nominal
- » The shield screw thread connection conforms to the proper 5/8"-24UNEF-2B standard imperial thread
- » Brass body with nickel plating with bronze contact pin with gold plating



# Cellular and 2-Way Radio



## 'N' Plug for RG213 50 Ohm Crimp

### 56MM-N213

- » N213 N-Type connector for use with 56MM-E213 series cable and RG213
- » Impedance: 50Ω nominal
- » The shield screw thread connection conforms to the proper 5/8"-24UNEF-2B standard imperial thread
- » Constructed with a brass body with nickel plating and a gold plated pin
- » Captive pin
- » Teflon dielectric



## 'N' Socket for LL400/LMR400 50 Ohm Spring Finger

### 56MM-N400S

- » N400S N-Type socket connector for use with 56MM-E400 series cable
- » Impedance: 50Ω nominal
- » RoHS compliant. 10.7mm Hex crimp
- » Brass body with Nickel plating with Beryllium Copper contact pin with gold plating
- » Teflon Insulator



## 'N' Plug for LL400/LMR400 50 Ohm Spring Finger

### 56MM-N400SF

- » N400SF N-type connector for use with 56MM-E400 series cable
- » Impedance: 50Ω nominal
- » RoHS compliant. 10.7mm hex crimp
- » Brass body with nickel plating with beryllium copper contact pin with gold plating
- » Internal silicon rubber gasket for waterproofing



## SMA Crimp Socket for LL-LMR400 50 Ohm Cable

### 56MM-SMA400F

- » For use with 10mm OD 50ohm LL-LMR400 coaxial cables
- » Impedance: 50Ω nominal
- » Nickel-plated brass body with nickel-plated crimp and gold plated centre pin
- » Suitable up to 12GHz
- » Designed for crimping using hex 10.7



## SMA Crimp Plug for LL-LMR400 50 Ohm Cable - Spring Finger

### 56MM-SMA400SF

- » For use with 10mm OD 50ohm LL-LMR400 coaxial cables
- » Impedance: 50Ω nominal
- » Nickel plated brass body with nickel plated crimp and gold plated spring finger beryllium copper centre pin, no solder
- » Suitable up to 12GHz
- » Designed for crimping using hex 10.7



## SMA Crimp Plug for LL-LMR195 and RG58 50 Ohm Cable

### 56MM-SMA58

- » For use with 5mm OD 50ohm coaxial cables including RG58 and LL-LMR195
- » Impedance: 50Ω nominal
- » Reliable and robust screw-on SMA plug for connecting devices
- » Gold plated Brass connector, crimping sleeve and centre pin, solder and crimp style
- » Suitable up to 12GHz
- » Designed for crimping using Hex5.4





## **SMA Crimp Socket for LL-LMR195 and RG58 50 Ohm Cable** **56MM-SMA58F**

- » For use with 5mm OD 50ohm coaxial cables including RG58 and LL-LMR195
- » Impedance: 50Ω nominal
- » Reliable and robust screw-on SMA socket for linking cables
- » Gold plated brass connector with gold plated beryllium copper centre pin, solder style
- » Suitable up to 12GHz
- » Designed for crimping using hex5.4



## **TNC400 Straight Plug (No Solder) for LL-LMR400 Cable** **56MM-TNC400**

- » For use with 10mm coaxial cables including LL-LMR400
- » Impedance: 50Ω nominal
- » Crimp outer with spring finger centre
- » Brass body with nickel plating and gold plated centre pin
- » Recommended crimp DIES: hex 10.7
- » PTFE insulator with silicon gasket



## **TNC400 Right Angled Plug (No Solder) for LL-LMR400 Cable** **56MM-TNC400RA**

- » For use with 10mm coaxial cables including LL-LMR400
- » Impedance: 50Ω nominal
- » Crimp outer with spring finger centre
- » Nickel-plated brass metal parts with gold plated beryllium copper centre pin
- » Recommended crimp DIES: HEX 10.7
- » PTFE insulator with silicon gasket



## **UHF Crimp Plug for LL-LMR195 and RG58 50 Ohm Cable** **56MM-U058**

- » UHF Crimp Plug for - LL-LMR195 and RG58 50Ω cable
- » Impedance: 50Ω nominal
- » The shield screw thread connection conforms to the proper UHF PL-259 standard imperial thread
- » Brass body with Nickel plating and Gold Plated Centre Pin
- » Suitable up to 520MHz



## **UHF PL-259 Screw and Solder Plug for LL-LMR195 and RG58 50 Ohm Cable** **56MM-U058S**

- » UHF PL-259 connector for use with 56MM-E58, E58LL and E195 series cable
- » Impedance: 50Ω nominal
- » The shield screw thread connection conforms to the proper UHF PL-259 standard imperial thread
- » Brass body with nickel plating and gold plated centre pin
- » Suitable up to 520MHz
- » Simple, easy to use and install



## UHF Clamp Plug for RG213 and LL-LMR400

### 56MM-U213

- » For use with 10mm coaxial cables including RG213 and RG11A/U 75 Ohm
- » Impedance: 50Ω nominal
- » The shield screw thread connection conforms to the proper UHF PL-259 standard imperial thread
- » Nickel-plated brass body with gold plated brass centre pin
- » Suitable up to 520MHz
- » Teflon dielectric with silicon gasket

## Tools



## Coaxial Ratchet Crimping Tool for RG213/LL-LMR400 Cables

### 56MM-CT01

- » For use with 10mm coaxial cables, including RG213, RG8 and LL-LMR400, other compatible cables include RG58/59/62 and RG11.
- » CT01 can be used with many brands of crimp-style connectors, including N-type, 4.3-10, UHF, BNC, TNC and SMA connectors
- » Supports Hex Crimp sizes 6.50mm, 10.90mm, 1.73mm and 5.41mm
- » Diecast crimping jaws with rubber-sleeved steel handles for a comfortable grip
- » Tool handles made from mild carbon steel with a hardened black oxide finish



## Coaxial Ratchet Crimping Tool for RG58/59/LL-LMR195 Cables

### 56MM-CT02

- » For use with 5mm coaxial cables, including RG58/59, LL-LMR195, other compatible cables include RG62, RG174 and fibre optic cables.
- » CT02 can be used with many brands of crimp-style connectors, including N-type, 4.3-10, UHF, BNC, TNC and SMA connectors
- » Supports hex crimp sizes 1.73mm, 2.54mm, 3.48mm, 5.41mm and 6.48mm
- » Diecast crimping jaws with rubber-sleeved steel handles for a comfortable grip
- » Tool handles made from mild carbon steel with a hardened black oxide finish



## Coaxial Stripping Tool for RG213/LL-LMR400 Cables

### 56MM-ST01

- » For use with ~10.5mm coaxial cables including RG8/11/213 and LL-LMR400
- » ST01 can be used with many brands of crimp-style connectors, including N-type, 4.3-10, UHF, BNC, TNC and SMA connectors
- » Pre-set dielectric and jacket stripping depths to suit most compatible cables
- » Three blade setup with adjustable depths allows you to configure it to your specific cable needs.
- » Compact, lightweight design



## Coaxial Stripping Tool for RG58/59/LL-LMR195 Cables

### 56MM-ST02

- » For use with ~5mm coaxial cables including RG58/59/62/6 and LL-LMR195
- » ST02 can be used with many brands of crimp-style connectors, including N-type, 4.3-10, UHF, BNC, TNC and SMA connectors
- » Pre-set dielectric and jacket stripping depths to suit the most compatible cables
- » Three blade setup with adjustable depths allows you to configure it to your specific cable needs.
- » Compact, lightweight design



## Spinner Trimming Tool for E500 50 Ohm Half-inch Cable 56MM-E500-ST

- » Used for preparing 50 Ohm half-inch cables for N500P and N500S connectors
- » Steel age-hardened blades for longevity
- » Stainless steel springs and pins
- » Quality Spinner brand
- » Spare blades and instruction manual included

## Accessories



## Power Supply 12V DC for Cel-Fi G41 and G31 Units with 240V AC Plug Pack 56MM-CFPS

- » 12V DC with maximum 1.5 Amps power supply with 2.1 x 5.5mm DC jack
- » It can be used with other compatible devices
- » Right-angled DC jack to allow into tight spaces
- » Input: 100-240V ~ 50/60Hz
- » Power efficient switch mode technology



## Cel-Fi GO Mobile 12V CLA Power Adaptor 56MM-CFPS-CLA

- » Replacement mobile cigarette socket power connection for Cel-Fi R41, G32 and G31 mobile phone repeaters.
- » 1.8m cable with 2.1 x 5.5mm DC jack
- » It can be used with other compatible devices
- » Right-angled DC jack to allow into tight spaces
- » 12V DC input



## 10mm RF Cable Earthing Kit for RG213/LL-LMR400 Cable 56MM-EK01

- » Designed for 10mm flexible coaxial cables such as RG213 or LL-LMR400 cables (Matchmaster E213/E400 cables)
- » Grounding cable length 1000mm
- » Contact resistance  $\leq 1\text{m}\Omega$
- » Insulation resistance  $>500\text{M}\Omega$
- » Nominal discharge current  $\geq 70\text{kA}$
- » RoHS compliant 2002/95/EC



## Pre-terminated Lead LMR-LL195 'N' Type Plug to SMA Plug

- » Can be used with many of our cellular antennas to connect to Cel-Fi units or modems
- » Pre-terminated cables, no tools required
- » LMR-LL195 low loss coaxial cable
- » VSWR:  $\leq 1.2$  (0-3GHz)
- » N-type male to SMA male terminations
- » Simple and easy to use and install
- » Available in multiple configurations below

Product Code	Length
56MM-FL50-02	2m
56MM-FL50-06	6m

# Cellular and 2-Way Radio



## Pre-terminated Lead LMR-LL400 'N' Type Plug to SMA Plug

- » Can be used with many of our cellular antennas to connect to Cel-Fi units or modems
- » Pre-terminated cables, no tools required
- » LMR-LL400 low loss coaxial cable
- » VSWR:  $\leq 1.2$  (0-3GHz)
- » N-type male to SMA male terminations
- » Simple and easy to use and install
- » Available in multiple configurations below

Product Code	Length
56MM-FL50-10	10m
56MM-FL50-12	12m
56MM-FL50-15	15m
56MM-FL50-20	20m
56MM-FL50-30	30m



## 12mm 'N' Socket Cap with Security Chain

### 56MM-NSC12

- » 12mm cap used to seal off unused N socket points to keep protected for dust and moisture
- » Security chain to prevent loss or dropping of disconnected cap
- » Standard 5/8-24 UNEF-2A thread
- » Ideal for capping off bulkhead mounted terminations
- » Brass body with nickel plating
- »  $\geq 500$  cycle durability



## EMP/Lightning Protector with 90V Gas Capsule

### 56MM-SRG-N90

- » Broadband use for most applications DC-2.5 GHz
- » Various gas voltage capsule available depending on system RF Power
- » Suitable for RF power systems up to 600W
- » Supplied with earthing lug and mounting bracket
- » Weatherproof "O" ring Seal to panel and capsule cover
- » Fixed adaptor, N-female - N-female



## Spinner UHF Lightning Arrestor 360-520MHz

### 56MM-SRG-UHF

- » Frequency range 360-520MHz
- » 800-watt maximum average power capacity
- » Insertion loss 0.1dB
- » Residual pulse energy 20  $\mu$ j (test pulse 4 kV 1.2/50  $\mu$ s and 2 kA 8/20 Qs)
- » IP67 per EN 60529 (in mated condition)
- » Fixed adaptor, N-Female - N-Female



## EMP/Lightning Protector 90-1000V Gas Capsule Only

- » Broadband use for most applications DC-2.5 GHz
- » 90 to 1000V gas voltage capsules available depending on system RF power
- » Suitable for RF power systems up to 600W
- » Economical to stock for emergency replacements
- » Replaceable capsule only
- » Available in multiple configurations below

Product Code	Volts
56MM-EMP90V	90V
56MM-EMP230V	230V
56MM-EMP350V	350V
56MM-EMP600V	600V
56MM-EMP800V	800V
56MM-EMP1000V	1000V



## EMP/Lightning Protector with 230-1000V Gas Capsule

- » Broadband use for most applications DC-2.5 GHz
- » Various gas voltage capsules available depending on system RF power
- » Suitable for RF power systems up to 600W
- » Weatherproof "O" ring seal to panel and capsule cover
- » Fixed adaptor, N-female – N-female
- » Available in multiple configurations below

Product Code	Volts
56MM-SRG-N230	230V
56MM-SRG-N350	350V
56MM-SRG-N600	600V
56MM-SRG-N800	800V
56MM-SRG-N1000	1000V

## Antenna Kits



### 4G Multi-band Base Cellular Antenna with Bracket for Mirror/Roof Bar Stainless Steel Bracket

#### 56MM-4G01

- » 4G multi-band performance omnidirectional antenna with stainless steel mounting bracket included
- » 6.0dBi gain @ 690-960 MHz, 3.0dBi gain @ 1710-2700 MHz
- » Factory tuned no further tuning required
- » Designed and manufactured in Australia
- » Fibreglass & thick walled radome
- » Simple and easy to use and install



### 8" 4G Multiband Cellular Marine Antenna

#### 56MM-4G04

- » 4G multi-band performance omnidirectional marine-grade 8-foot white antenna
- » Unity gain 690-960MHz and 1710-2700MHz
- » Factory tuned. No further tuning required
- » Designed and manufactured in Australia
- » Fibreglass and thick-walled radome with 5m input cable, FME Female connector and chromed brass fittings
- » Simple and easy to use and install

# Cellular and 2-Way Radio



## **4G Cellular Omnidirectional Adhesive Antenna 700-2700MHz with 3m SMA Male Cable**

### **56MM-4GV1-M**

- » Compact adhesive 4G multi-band performance omnidirectional compact antenna with 3m cable tail terminated in SMA male.
- » 3 dBi gain across the bands 698-960 MHz and 1710-2700 MHz.
- » Mounted by 3M adhesive
- » 3m flexible tail to allow for ease of installation in vehicles and machinery
- » Replacement antenna for cel-fi mobile systems.



## **5G Cellular Dipole Antenna with 3m LL/LMR195 Cable**

### **56MM-5G01**

- » 5G/4G/3G multi-band performance omni directional compact antenna with 3m LL/LMR195 cable with SMA male
- » 1.8-4.7dBi Gain 690-3700MHz
- » Factory tuned no further tuning required
- » Designed and manufactured in Australia
- » Ground plane independent
- » May be mounted vertically or horizontally



## **5G Low Profile Panel Mounted Antenna with 2m LL/LMR195 Cable**

### **56MM-5G02**

- » 5G/4G/3G multi-band performance compact omnidirectional antenna with 2m LL/LMR195 cable with SMA male
- » 3dBi gain 695-3800MHz
- » Factory tuned no further tuning required
- » Designed and manufactured in Australia
- » Compact antenna design - Only 77mm high
- » Requires 16mm mounting hole



## **5G Log Yagi Weather Protected Antenna 698-3800MHz**

### **56MM-5G03**

- » 5G/4G/3G multi-band performance directional antenna with stainless steel mounting bracket included
- » 11dBi nominal gain
- » Horizontal beam width 90 degrees, vertical beam width 60 degrees
- » Vertically polarized
- » DC ground lightning protection
- » Factory tuned no further tuning required



## **4G/5G Ultra Slim Omnidirectional Ceiling Mount Indoor Antenna 698-960 and 1710-6000MHz**

### **56MM-5G04-I**

- » Ceiling mount indoor cellular antenna for use in GSM, CDMA, PCS, CDMA2000, WCDMA, TD-SCDMA, TD-LTE, FDD-LTE systems
- » Designed for use in DAS systems for indoor signal coverage
- » It covers bands 698-960MHz and 1710-6000MHz
- » High gain with low PIM and low VSWR
- » DC ground with corrosion resistance
- » Horizontal beam width of 360 degrees

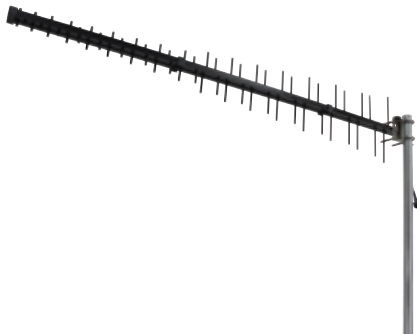




## 4G/5G Directional Wall Mount Indoor Antenna 698-960, 1710-2700 and 3400-4000MHz

### 56MM-5G05-I

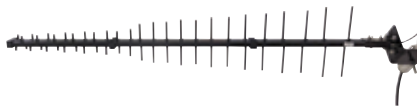
- » Wall mount indoor cellular antenna for use in cellular networks
- » Designed for use in DAS systems for indoor signal coverage
- » Covers bands 698-960MHz, 1710-2700MHz and 3400-4000MHz
- » High gain with low PIM and low VSWR
- » DC ground with corrosion resistance
- » Horizontal beam width up to 80 degrees and vertical up to 70 degrees



## 5G/4G Log Periodic High Gain Antenna

### 56MM-5G07

- » 5G/4G and 3G Multi-Band performance directional antenna with 'N' type socket and stainless steel mounting bracket.
- » 11.3dBi peak gain across lower bands 698 to 960MHz, 11.5dBi peak gain across bands 1695 to 2700MHz and 9.5dBi gain across upper bands 3300 to 4000MHz
- » 30cm tail with pre-terminated 'N' Female connector and 10m cable
- » Ruggedized construction for Australian conditions
- » Black powder coated welded aluminium construction with stainless mounting bracket
- » Factory tuned. No further tuning required.



## 5G/4G Log Periodic High Gain Antenna - Low PIM $\leq -153\text{dBc}$

### 56MM-5G10

- » 5G/4G and 3G multi-band performance directional antenna with a 4.3-10s and stainless steel mounting bracket.
- » 13/14dBi gain across the bands
- » Polarization adjustable between vertical, horizontal, +45 degrees or -45 degrees
- » Designed and manufactured in Australia
- » Black powder-coated welded aluminium construction with stainless mounting bracket
- » Factory tuned. No further tuning is required.



## 5G Multi-band Mobile Cellular Antenna with Black Stainless Steel Spring Mount Base

### 56MM-5G11-M

- » 5G/4G/3G multi-band performance omnidirectional antenna with black stainless steel spring mount base and 5m low loss RG58 cable terminated in low loss SMA plug
- » 6.0 dBi gain @ 690-960 MHz, 3.0 dBi gain @ 1710-2700 and 3500-3700 MHz
- » Factory tuned—no further tuning required.
- » Designed and manufactured in Australia for mobile applications, vehicles, trains, caravans, boats etc.
- » Fibreglass and thick-walled Radome with black coated stainless steel spring mount base
- » Simple and easy to use and install



## UHF GPI Flexi Dipole Antenna Kit

### 56MM-CBU01

- » Frequency 470-490 MHz with 4dB\* gain
  - » Omnidirectional with 30W maximum power
  - » Stud mount with 5m RG58C/U with FME Socket fitted
  - » Designed and manufactured in Australia
  - » Ground plane independent
  - » A compact and durable antenna with L bracket supplied for mounting
- \*dB gain reference is relative to a 1/4 wave on a ground plane

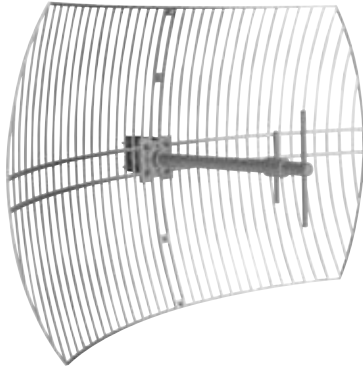
# Cellular and 2-Way Radio



## Elevated Feed UHF CB Antenna Kit with Two Brackets

### 56MM-CBU02

- » Complete kit including stainless spring & elevated feed base, 6.5dB & 3dB antennas, RG58 lead & plug as well as two brackets
- » Pre-terminated cables, no tools required
- » Stud mount with 5m RG58C/U Mil-Spec with FME Socket + FMEp-UHFp adaptor
- » Designed and manufactured in Australia
- » Factory tuned, no further tuning required, 470-490MHz
- » Heavy-duty, stainless steel & fibreglass construction



## 4G Low Band Grid Antenna 698 to 960 MHz with 4.3-10 Socket Connection

### 56MM-GA01L

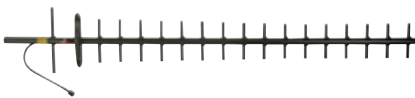
- » 4G and 3G low band high-performance long-range grid antenna with 300mm tale terminated with a 4.3-10 type socket
- » 14 dBi peak gain over 698 to 960 MHz
- » Solid aluminium and acetal feed, powder-coated cast aluminium reflector
- » Ruggedized construction for Australian conditions
- » Perfect for long-range reception from and transmission to base stations
- » Factory tuned. No further tuning is required. Factory tuned, no further tuning required, 470-490MHz
- » Heavy-duty, stainless steel & fibreglass construction



## 5G/4G Wide Band Grid Antenna 698 to 4000 MHz with 4.3-10 Socket Connection

### 56MM-GA02W

- » 5G, 4G and 3G Wide Band high-performance long-range grid antenna with 300mm tale terminated with a 4.3-10 type socket
- » 11.4 to 13.3 dBi gain on low-band frequencies and up to 20.8 dBi gain on the 4G-5G mid-band
- » Powder-coated cast aluminium reflector
- » Ruggedized construction for Australian conditions
- » Perfect for long-range reception and sites where multiple cellular base stations cause interference
- » Factory tuned. No further tuning is required.



## 4G Low Band Yagi Antenna 698 to 960 MHz with 10m N Male to SMA Male Cable

### 56MM-YG01

- » 4G and 3G low band high-performance directional antenna with 300mm tale terminated with an N-type socket
- » 13-14 dBi peak gain over 698 to 960 MHz
- » 30cm tail with pre-terminated N Female connector with 10m LMR 240 cable
- » Ruggedized construction for Australian conditions
- » Perfect for long-range rural sites up to 40km from base stations
- » Factory tuned. No further tuning is required. Factory tuned, no further tuning required, 470-490MHz
- » Heavy-duty, stainless steel & fibreglass construction

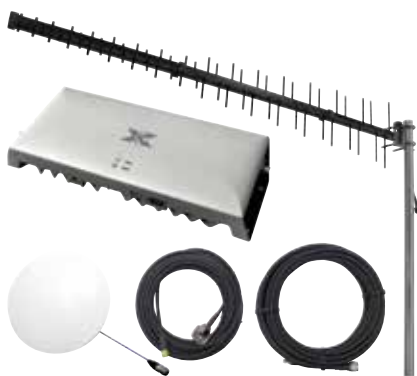
## Mobile Repeater Kits



### Vodafone 3G/4G Mobile Phone Signal Repeater Kit for a Home or Small Building

#### 56MM-CFBK-3

- » A complete home or small building kit for Vodafone mobile
- » Boost your mobile signal with up to 100dB of gain
- » Designed for use in Vodafone networks
- » Use with Cel-Fi WAVE applications for mobile phones and tablets plus PC for easy setup
- » Band selection button for quickly selecting best signal available
- » Easy plug and play easy setup



### 3G/4G Mobile Phone Signal Repeater Kit for Either Telstra, Optus or Vodafone-TPG to Suit Homes or Small Building

#### 56MM-CFBK-4

- » A complete home or small building kit for Telstra, Optus or Vodafone-TPG mobile (one carrier at a time). Carrier switching at any time via the Cel-Fi WAVE app.
- » The highest output power of any Cel-Fi Go unit, +20dBm, covering up to 3000 m2 coverage area
- » Two bands simultaneous relay utilizing up to 40MHz bandwidth to give the best result for voice and data use.
- » Use with Cel-Fi WAVE app for mobile phones and tablets to set up and switch between Telstra, Optus and Vodafone.
- » 700L, 850, 900, 1800, 2100 and 2600MHz (700 band not supported on Vodafone)
- » 3G, 4G, VoLTE, NB-IoT (G41 has 5G capabilities but is currently not enabled or approved)

\*The G41 Cel-Fi unit can be easily switched between Telstra, Optus and Vodafone-TPG (one carrier at a time) should you change service providers.

## Mobile Repeaters



### Mobile Phone Signal Repeater for Vodafone 3G/4G (Stationary or Mobile - Vehicle/Marine Vessel)

#### 56MM-CFG2-V

- » Boost your mobile signal with up to 100dB of gain
- » Designed for mobile use in buildings, cars, trucks, caravans and maritime installations in private and commercial vessels
- » Approved by Vodafone and locked to the Vodafone network
- » Use with Cel-Fi WAVE applications for mobile phones and tablets plus PC for easy setup
- » Band selection button for quickly selecting the best signal available
- » Plug and Play easy setup

# Cellular and 2-Way Radio



## Mobile Phone Signal Repeater for Either Telstra, Optus or Vodafone-TPG 3G/4G\*\* (Stationary)

### 56MM-CFG4

- » Individually compatible with Telstra, Optus and Vodafone-TPG by selecting your preferred provider on setup.
- » Boost up to 40MHz of signal split across two channels to give the best voice and data coverage for your mobile with up to 100dB of dynamic gain
- » Designed for stationary use in buildings and outdoor areas for optimum signal coverage
- » Use with Cel-Fi WAVE applications for mobile phones and tablets plus PC for easy setup
- » Frequency bands: 700L, 850, 900, 1800, 2100 and 2600 MHz. Vodafone does not support band 700H.
- » Plug-and-play with built-in network management via LAN port

\*\* 3G, 4G, VoLTE & NB-IoT (CFG4 has 5G capabilities but is currently not enabled or approved)



## Mobile Phone Signal Repeater for Optus 3G/4G (Stationary or Mobile - Vehicle/Marine Vessel)

### 56MM-CFG-O

- » Boost your mobile signal with up to 100dB of gain
- » Designed for mobile use in buildings, cars, trucks, caravans and maritime installations in private and commercial vessels
- » Approved by Optus and locked to the Optus network
- » Use with Cel-Fi WAVE applications for mobile phones and tablets plus PC for easy setup
- » Band selection button for quickly selecting the best signal available
- » Plug and Play easy setup



## Mobile Phone Signal Repeater for Telstra 3G/4G (Mobile - Vehicle/Marine Vessel)

### 56MM-CFGM-T

- » Boost your mobile signal with up to 100dB of gain
- » Designed for mobile use in cars, trucks, caravans and maritime installations in private and commercial vessels
- » Approved by Telstra and is locked to Telstra network
- » Use with Cel-Fi WAVE applications for mobile phones and tablets and PC for easy setup
- » Band selection button for quickly selecting best signal available
- » Plug and play easy setup

## Mounts



## 40-60mm Stainless Steel Bull Bar Mounting Bracket (Medium Weight)

### 56MM-BBM1

- » Used to mount your cellular or radio antenna to a vehicles bull bar or nudge bar
- » Suits 40-60mm diameter bars with 2 x stainless steel hose clamps included
- » 16mm mounting hole for standard antennas
- » Cost-effective mounting solution
- » For oversized bars, replace hose clamps to suit



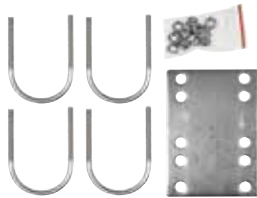
## 8-30mm Stainless Steel Bar or Mirror Mounting Bracket 56MM-BMB1

- » Used to mount your cellular or radio antenna to a vehicle, vessel or base station mast
- » Suits 8-30mm diameter bars
- » 16mm mounting hole for standard antennas
- » Cost-effective mounting solution
- » 4 x stainless steel fastening bolts included



## Base Station Antenna Mount - Right Angled, Galvanised 56MM-BSAM1

- » Galvanised heavy-duty, right-angle steel mounting bracket
- » Minimum pole OD: 20mm, maximum pole OD: 90mm



## Base Station Antenna Mount - Universal, Stainless Steel 56MM-BSAM2

- » Stainless steel universal heavy-duty mounting bracket
- » Minimum pole OD: 50mm, maximum pole OD: 60mm
- » Parallel mounting of colinear antennas
- » Perpendicular mounting of side-mounted dipoles and large yagi beams



## 'Z' Shaped Antenna Mounting Bracket for Vehicle Bonnet/Boot Installations (Medium Weight) 56MM-LBV-MW

- » Stainless steel low profile mount for medium weight antennas to mount to either a vehicles bonnet or boot
- » 2mm thick stainless steel to fit into the tightest gaps
- » 16mm mounting hole with cable channel, five screw mounting points, and one slot point
- » Suitable for use with 56MM-5G11-M
- » Cost-effective mounting solution



## 'L' Shaped Antenna Mounting Bracket for Vehicle Bonnet/Boot Installations (Light Weight) 56MM-LBV-LW

- » Stainless steel low profile mount for lightweight antennas to mount to either a vehicles bonnet or boot
- » 1.1mm thick stainless steel to fit into the tightest gaps
- » 16mm mounting hole with cable channel and three screw mounting points
- » Cost-effective mounting solution



## Marine Antenna 2 Way Adjustable Knuckle Mount Heavy-duty Stainless Steel 56MM-MMB1

- » Fully articulated mount to suit any surface, vertical, horizontal or inclined
- » 100% cast stainless steel to last a lifetime in the marine environment
- » Cable routing hole through the bottom of the mounting ferrule
- » Perfect for use on sailing and power vessels
- » The male mounting thread is the marine standard 1" 14tpi
- » Fixing screws and bolts not included

# Cellular and 2-Way Radio



## **Marine Antenna 2 Way Adjustable Knuckle Mount Medium-duty Glass-filled Nylon**

### **56MM-MMB2**

- » Fully articulated mount to suit any surface, vertical, horizontal or inclined
- » Glass-filled nylon with a stainless adjustment bolt for maximum durability
- » Accepts all antennas with 1" 14tpi female thread 1" long
- » Perfect for use on sailing and power vessels
- » The male mounting thread is the marine standard 1" 14tpi
- » Fixing screws/bolts not included



## **Mast Top Mounting Bracket 330mm Stainless Steel**

### **56MM-MTB1**

- » Marine-grade stainless steel low profile mast top mounting bracket for omnidirectional cellular and radio antennas
- » 330mm length for antenna clearance and stable fastening footprint
- » 16mm mounting hole with cable channel and multiple screw mounting points
- » Perfect for use on sailing vessels
- » Cost-effective mounting solution



## **240mm Stainless Steel Wall Mount Bracket (Light Weight)**

### **56MM-WB240**

- » Stainless steel low profile wall mounting bracket for compact omnidirectional cellular antennas
- » 240mm wall standoff
- » 16mm mounting hole with cable channel and three screw mounting points
- » It can be used indoors or outdoors
- » Cost-effective mounting solution



## **80mm Stainless Steel Wall Mount Bracket (Light Weight)**

### **56MM-WB80**

- » Stainless steel low profile wall mounting bracket for compact omnidirectional cellular antennas
- » 80mm wall standoff
- » 16mm mounting hole with cable channel and three screw mounting points
- » It can be used indoors or outdoors
- » Cost-effective mounting solution



# HDMI®

## Product Catalogue



The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

## Full HD HDMI® Cables



### 1080p Standard Speed HDMI® Cable with Ethernet 10.2Gbps

- » 1080p/60Hz performance and fully compatible with HDCP 1.4
- » Supports 10.2Gbps total bandwidth
- » Supports 3D and deep colour over HDMI®
- » 24K gold plated connector
- » Suits resolutions including 480p, 480i, 720p, 1080i and 1080p
- » Plug and play bidirectional cable
- » Available in multiple configurations below

Product Code	Length
04MM-HDC10	10m
04MM-HDC15	15m

## 4K High Speed HDMI® Cables



### 4K High Speed HDMI® Cable 24Gbps

- » 4K/60Hz performance with HDR and fully compatible with HDCP 2.2
- » Supports 24Gbps total bandwidth
- » HDMI® over fibre reduces the risk of EMI/RFI interference
- » Hybrid optical cable with fibre and copper wire
- » Backwards compatible with full HD devices
- » Plug and play without the need for an external power source
- » Available in multiple configurations below

Product Code	Length
04MM-AOC15	15m
04MM-AOC20	20m
04MM-AOC25	25m
04MM-AOC30	30m
04MM-AOC40	40m
04MM-AOC50	50m
04MM-AOC60	60m
04MM-AOC70	70m
04MM-AOC80	80m
04MM-AOC90	90m
04MM-AOC100	100m





#### 4K High Speed HDMI® Cable with Ethernet 18Gbps

- » 4K/60Hz performance with HDR and fully compatible with HDCP 2.2
- » Supports 18Gbps total bandwidth
- » 24K gold plated connector
- » High Speed HDMI® Cable with Ethernet
- » Backwards compatible with full HD devices
- » Plug and play bidirectional cable
- » Available in multiple configurations below

Product Code	Length
O4MM-HD1.5	1.5m
O4MM-HD03	3m
O4MM-HD05	5m
O4MM-HD10	10m

18Gbps

4K HDR

Ultra HD

3D

COMPATIBLE



#### 4K High Speed HDMI® Cable with Ethernet 18Gbps

- » Slimline cables are suited for installations with limited space, such as installation behind flush-mounted screens or shallow depth cabinets
- » Resolutions up to 4K 2K@60Hz with 24bit RGB/YCbCr 4:4:4
- » ARC (Audio Return Channel), CEC (Consumer Electronics Control) control technology
- » Supports LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- » Compact design for an easy and flexible installation
- » Available in multiple configurations below

Product Code	Length
O4MM-SL0.5	0.5m
O4MM-SL1	1m
O4MM-SL1.5	1.5m
O4MM-SL2	2m
O4MM-SL3	3m
O4MM-SL5	5m

18Gbps

4K HDR

Ultra HD

3D

COMPATIBLE

## 8K Ultra High Speed HDMI® Cables



### 8K Ultra High Speed HDMI® Cable 48Gbps

- » 8K/60Hz performance with HDR and fully compatible with HDCP 2.2
- » Support 48Gbps bandwidth with 4K 50/60/100/120P and 8K 50/60P and Dynamic HDR
- » HDMI® over fibre reduces the risk of EMI/RFI interference
- » Hybrid optical cable with fibre and copper wire
- » Backwards compatible with 4K and full HD devices
- » Plug and play without the need for an external power source
- » Available in multiple configurations below

Product Code	Length
O4MM-AOC8K5	5m
O4MM-AOC8K10	10m
O4MM-AOC8K15	15m
O4MM-AOC8K20	20m
O4MM-AOC8K30	30m
O4MM-AOC8K40	40m
O4MM-AOC8K50	50m



### 8K Certified Ultra High Speed HDMI® Cable 48Gbps

- » Certification from HDMI.org is currently the only way to ensure true 48Gbps capacity required to reach Ultra High Speed HDMI® Cable specification
- » Supports all combinations of resolution and refresh rate within the Ultra High Speed HDMI® Cable specification, including 8K@60Hz and 4k@120Hz
- » eARC support - Ultra High Speed HDMI® Cable features an enhanced audio return channel (eARC). The cable supports the latest high-bitrate audio formats up to 192kHz, 24-bit, uncompressed 5.1 and 7.1, 32-channel uncompressed audio, DTS-HD Master Audio™, DTS: X®, Dolby® TrueHD, Dolby Atmos®
- » Supports eARC, ARC, CEC and static or dynamic HDR, VRR, ALLM, QFT and QMS
- » Utilised for connecting your TV or projector to your AV amp, computer, Blu-ray or DVD player, gaming console, HD set-top box etc
- » 24K gold copper plated connector
- » Available in multiple configurations below

Product Code	Length
O4MM-HDR8K-1	1m
O4MM-HDR8K-1.8	1.8m
O4MM-HDR8K-3	3m
O4MM-HDR8K-5	5m



## Matrix switches



### 4K High Speed HDMI® 2x4 Matrix Switcher

#### 34MM-HDMX24

- » 18Gbps capacity allows 4K60 4:2:0 HDR from 2 HDMI® sources selectable from 4 displays.
- » Selectable audio extraction function means you can choose which TV to listen to via SPDIF or 3.5mm analogue.
- » EDID selection via web-based UI or master remote
- » Control by base unit buttons or remotely via supplied IR remotes or web-based user interface.
- » HDCP 2.2 compliant - The HDCP of the output follows the HDCP version of the display device.
- » Supports audio formats - LPCM 2ch, LPCM 5.1ch, LPCM 7.1ch, Dolby Digital 2ch, Dolby Digital 5.1ch, DTS 2ch, DTS 5.1ch, DTS 96/24 5.1ch.

**18Gbps**
**4K HDR** **Ultra HD**  
 COMPATIBLE

## Extenders



### 50m 1080p Standard Speed HDMI® Loop Out Extender Over Cat 5e/6 with HDMI® Loop Out, IR and PoC

#### 34MM-2K50

- » HDMI® loop out port allows for cascading additional extenders or a local TV connection
- » 2K50 supports PoC (Power Over Cable) function, meaning only one power supply at the source. IR receiver units powered by the splitter through the CAT5e/6 connection
- » 1 x IR transmitter and 1 x IR receiver included (one for each RX unit)
- » Capacity for 1080p/60Hz Full HD Standard Speed HDMI® to 50m
- » 5V DC 1 amp power supply included
- » Compact design for an easy and flexible installation

**1080p**


### 55m 1080p 3 Way Standard Speed HDMI® Extender Splitter Over Cat 5e/6 with HDMI® Loop Out, IR and PoC

#### 34MM-2K50-3

- » HDMI® loop out port allows for cascading additional extenders or a local TV connection
- » 2K50-3 supports PoC (Power Over Cable) function, meaning only one power supply at the source. IR receiver units powered by the splitter through the CAT5e/6 connection
- » 1 x IR transmitter and 3 x IR receiver included (one for each RX unit)
- » Capacity for 1080p/60Hz Full HD Standard Speed HDMI® to 55m
- » Threaded DC power port for secure power supply connection
- » Compact design for an easy and flexible installation

**1080p**



## 50m 4K High Speed HDMI® Extender Over Cat 6 18Gbps HDCP 2.2 with HDMI® Loop Out

### 34MM-4K50

- » Extend 4K HDR ultra high definition picture and sound from an HDMI® source up to 50m using a single CAT6 cable
- » HDMI® loop out port allows for cascading additional extenders or local TV connection
- » Copying of EDID signature from either the receiver display or loop out display
- » Remote IR control from the extender to a source using supplied IR accessories (compatible with pay TV IR remotes)
- » PoC (Power Over Cable) function. Only one power supply at the source end
- » 4K High Speed HDMI®, HDCP 2.2/HDCP 1.4 and DVI 1.0 compliant

**4K HDR**

**18Gbps**



## 70m 4K High Speed HDMI® Extender Over Cat 6 18Gbps HDCP 2.2 with HDMI® Loop Out and ARC

### 34MM-4K70-ARC

- » Extend 4K HDR ultra high definition picture and sound from an HDMI® source up to 70m using a single CAT6 cable
- » HDMI® loop out port allows for cascading additional extenders or local TV connection
- » ARC (Audio Return Channel) function, allowing TV digital audio across HDMI source. CEC code transfer is also supported, allowing the remote control to function
- » Remote IR control from the extender to a source using supplied IR accessories (compatible with pay TV IR remotes)
- » PoC (Power Over Cable) function. Only one power supply at the source end
- » 4K High Speed HDMI®, HDCP 2.2/HDCP 1.4 and DVI 1.0 compliant

**4K HDR**

**18Gbps**

## HDMI Repeaters



## 4K HDMI® Repeater

### 34MM-RP4K

- » HDMI® 4K repeater for lifting the performance of old or lower specification HDMI® cables to the next level
- » The possibility of lifting the performance of the installed HDMI® lead means there's no need to replace difficult-to-access existing cables
- » Add the existing HDMI® lead closest to the TV in the correct direction and use a short high-performance lead such as the 04MM-SL0.5 to re-attach to the display or TV HDMI® input
- » Supports HDCP version 2.2
- » Easy plug-and-play solution



## Splitters



### 4K High Speed HDMI® Splitter 18Gbps with Built-in Downscaler

- » HDMI® 4K High Speed 18Gbps and HDCP 2.2 compliant
- » Supports resolutions up to 4K2K@60Hz with 24bit RGB/YCbCr 4:4:4
- » EDID control with eight settings and HDCP switch
- » Supports LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- » Threaded DC power port for secure power supply connection
- » Compact design for an easy and flexible installation
- » Available in multiple configurations below

Product Code	Output
34MM-HDS2	2 Way
34MM-HDS4	4 Way



### 8 Way 4K High Speed HDMI® Splitter 18Gbps

#### 34MM-HDS8

- » HDMI® 4K High Speed 18Gbps and HDCP 2.2 compliant
- » Supports resolutions up to 4K2K@60Hz with 24bit RGB/YCbCr 4:4:4
- » EDID control with 2 settings, standard (1080p) mode and TV (copy EDID from output 1) mode
- » Supports LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- » Threaded DC power port for secure power supply connection
- » Compact design for an easy and flexible installation



## Audio Video Adaptors



### Right Angle HDMI® Male to Female Adaptor

#### 04MM-HDC01

- » Downward facing right angle for tight or confined spaces
- » Protrudes by 26mm from a connected device
- » Gold plated HDMI® connectors
- » Full HD 1080p pass-through
- » Most convenient solution for HDMI® port accessibility
- » Eliminate strain on your cables and connectors

*For the Best*



Paintable - It's called  
Hidden for a reason

You may also need a  
**04MM-HMH01**  
See page 140

# AV Cable and Accessories

Product Catalogue



The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

## Toslink Audio



### Toslink Male to Male Lead including Right Angle Adaptor

- » Utilised for connecting your TV to your sound bar, DVD player, Blu-ray, gaming console, HD set top box etc
- » Digital optical fibre
- » Right angle adaptor included
- » Transmits in stereo, 5.1, 6.1 and 7.1 Dolby digital surround plus uncompressed digital PCM recordings
- » Protective cap and jacket
- » Available in multiple configurations below

Product Code	Length
O4MM-TOS1	1m
O4MM-TOS3	3m
O4MM-TOS5	5m
O4MM-TOS15	15m
O4MM-TOS20	20m

## Extenders



### 300m Digital Audio Extender Over Cat 5e/6

#### 34MM-DAE1

- » Transmission range: Up to 300m (990')
- » Accepts digital coax or optical Toslink
- » Supports Digital 5.1 (DTS, Dolby Digital, etc.)
- » High performance, zero signal loss with both outputs active from any input
- » Data transmission rate: 12.8Mb/s
- » S/PDIF (digital coax): 96kHz performance

## Speaker Cable



### Premium 2 Core Speaker Cable

- » 100% copper, oxygen-free
- » Includes a red stripe tracer to identify polarities
- » Suitable for high-powered surround sound systems
- » 16AWG figure 8 configuration
- » Available in multiple configurations below

Product Code	Length
O4MM-SPK15-10	10m
O4MM-SPK15-100	100m

## Audio Video Adaptors



### Right Angle HDMI® Male to Female Adaptor

#### 04MM-HDC01

- » Downward facing right angle for tight or confined spaces
- » Protrudes by 26mm from a connected device
- » Gold plated HDMI® connectors
- » Full HD 1080p pass-through
- » Most convenient solution for HDMI® port accessibility
- » Eliminate strain on your cables and connectors



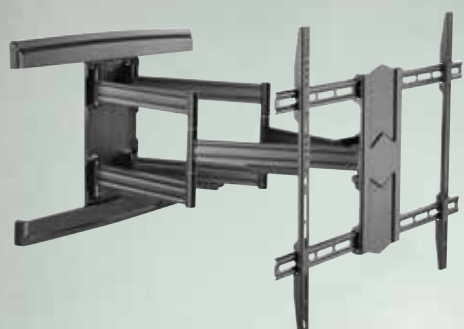
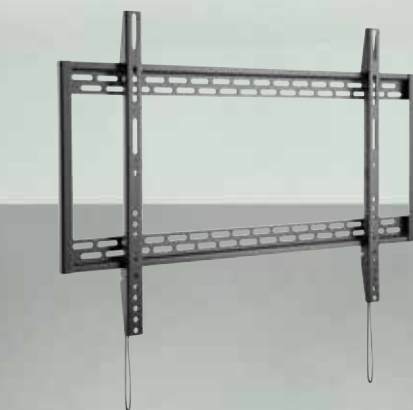
### Toslink Right Angle Adaptor

#### 04MM-TOS-RA

- » Right angle for tight or confined spaces
- » Protrudes by 20mm from connected device
- » Rotatable male connection to allow you to spin the adaptor to the perfect angle
- » Gold flashed ends for a secure connection



*For the Best*



## Welcome to the Land of the Giants

You may also need  
**TV Brackets**  
See page 147



# IR Accessories

Product Catalogue



## IR Distribution



### IR Receiver for 34MM-IRKIT

#### 34MM-IR-RX

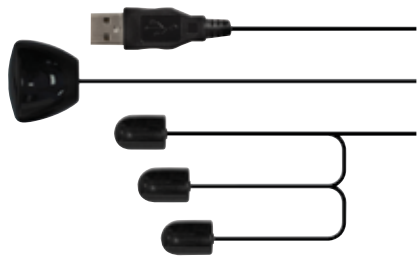
- » RJ45 connector
- » Bandwidth: 30-100kHz
- » 2m cable length and up to 10m reception range depending on local conditions
- » Active receiver
- » LED & plasma friendly and works with most IR remote controls on the market



### Dual IR Transmitter for 34MM-IRKIT (2 Pack)

#### 34MM-IR-TX

- » 2 x dual infrared emitting diodes for 34MM-IRKIT
- » 3m cable with 3.5mm plug
- » Allows expansion to control extra sources
- » Control up to a maximum of 8 sources with 4 x dual emitters with the 34MM-IRKIT



### IR Repeater USB Cable

#### 34MM-IR04

- » Plug & play USB powered IR extender cable
- » 1 x IR receiver with 3 x IR blaster into one USB powered cable for plug and play installation
- » Frequency bandwidth: 30-60KHz (Foxtel compatible)
- » 2.1m Length to easily pass through walls
- » IR receiver with LED activity indicator



### IR Expansion Block 1x RJ45 Plug to 4x RJ45 Socket

#### 34MM-IR4X

- » Simple plug and play to add up to 4 IR Receivers (34MM-IR-RX) allowing system control to other parts of the home
- » Used to add up to 4 dual IR Transmitters (34MM-IR-TX) allowing additional components to be controlled in other parts of the home
- » Can be daisy chained together to increase number of connections as required (maximum 8x 34MM-IR-RX)
- » Simple RJ45 connection allowing expansion block to be installed remotely to main control unit



## IR Extender Control Module with RJ45 Transmitter and Receiver 34MM-IRCM

- » Includes 1 x screw connector for hard wiring multiple IR receivers and 1 x RJ45 IR receiver port
- » Features 3 x 3.5mm IR-emitter output jacks and 1x RJ45 emitter extension port
- » Allows control over Cat5/6 cable to IR receivers up to 300mtrs
- » Power Requirements: 12V @ 1A with a 2.1x5.5x11mm (not included)



## RJ45 Socket to 2x 3.5mm Socket (Mini Jack) IR Adaptor 34MM-IRMJ

- » The 34MM-IRMJ allows the 34MM-IR-TX emitters to be installed remotely from the main control unit for greater flexibility
- » IR Adaptor for converting RJ45 IR signal to 2x 3.5mm socket for IR emitters
- » RJ45 connectors allow for simple plug and play over a Cat5/6 structured cable network
- » Can be multiplied by using 34MM-IR4X RJ45 expansion block (sold separately)



*For the Best*



You may also need  
**8K HDMI® Leads**  
See page 114

# Flyleads

Product Catalogue



# Flyleads



## Flylead 1.5M RG59 Quad 'F' Male to 'F' Male Flylead O5MM-FLY01

- » Fixed 'F' type male connections for sturdy design
- » 1.5M coaxial flylead
- » HDTV compliant
- » Provides 90dB screening effectiveness
- » Coaxial cable provides 4 layers of shielding for extra protection from ingress



## 2m RG6 Quad-shield Flylead with Adaptors DA-FL26

- » 2M RG6 lead pre-terminated with 'F' type fittings including two 'F' female to IEC (PAL) male adaptors
- » Provides 100dB screening effectiveness
- » DVB-T/T2 compliant
- » Coaxial cable provides 4 layers of shielding for extra protection from ingress



## RG59 Quad-shield Flylead with Adaptors

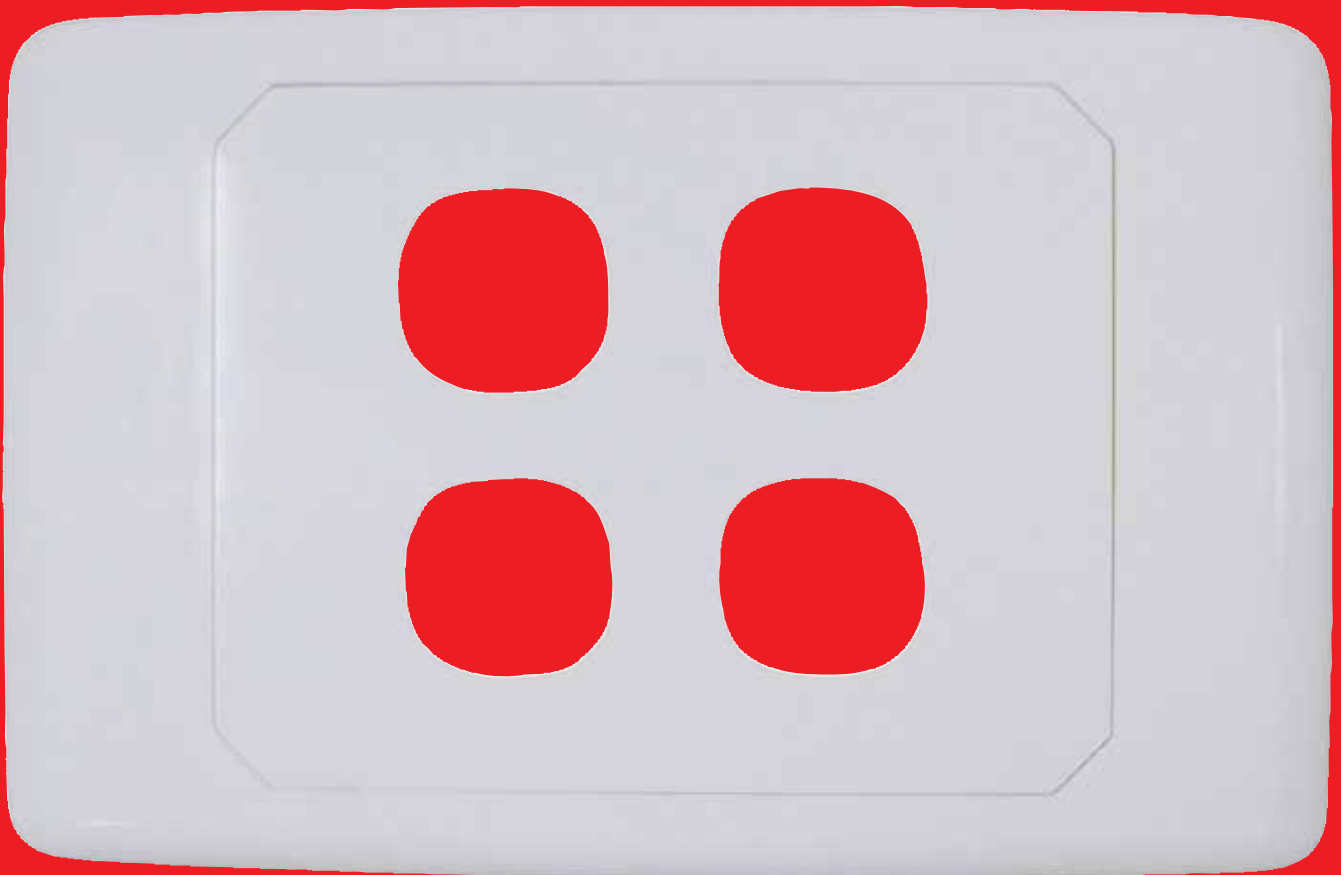
- » HDTV compliant
- » Provides 90dB screening effectiveness
- » 2x adaptor 'F' female to IEC (PAL) male
- » 1x adaptor 'F' female to IEC (PAL) female
- » Coaxial cable provides 4 layers of shielding for extra protection from ingress
- » Available in multiple configurations below

Product Code	Length
DA-FLY2M	2m
DA-FLY5M	5m
DA-FLY10M	10m



# Wall Plates

Product Catalogue



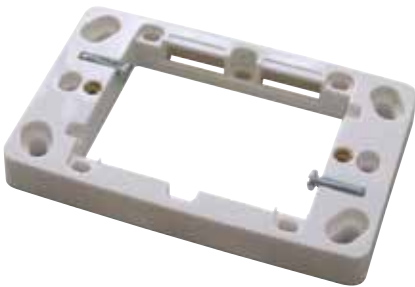
## Accessories



### Clip for 154 Wall Plate (20 Pack)

#### O5MM-154

- » Slides onto Gyprock for easy installation of outlet plates
- » Convenient 20 pack
- » Thin plated mild steel
- » Provides a cleaner finish to outlet plate installation
- » Allows you to easily level outlet plates once installed



### Mounting Block

- » Suitable to increase outlet plates by a depth of 34mm
- » Multi positioned mounting holes
- » Suits standard size wall plates
- » White mounting block
- » Available in multiple configurations below

Product Code	Depth
O5MM-MB449ASM	14mm
O5MM-MB449A	34mm

## TV & Pay TV



### 'F' Type Outlet Plate

#### O5MM-WP01

- » Fixed 'F' type outlet plate
- » Foxtel approved (F10114)
- » Fully shielded 'F' type rear connector
- » Suitable for domestic installations for use with satellite, digital and pay TV systems
- » Gloss finish



### 'F' Female to IEC Female Outlet Plate

#### O5MM-WP11

- » Fixed 'F' type female outlet plate
- » Return loss >10dB
- » Fully shielded 'F' type rear connector
- » Suitable for domestic PAL installations
- » Gloss finish



### Satellite / FTA / PDR Outlet Plate

#### O5MM-WP04

- » Foxtel approved (F10115)
- » Suitable for domestic installations for use with 5 wire system, satellite, digital, pay TV systems as well as personal digital recorders
- » Includes one blank insert
- » Return loss satellite >20 dB to 3 GHz FTA >20dB to 1GHz
- » Gloss finish



## FM



### Satellite / TV Outlet Plate with FM Power Pass

#### O5MM-WP05

- » Allows you to provide a separate FM and TV satellite connection from one outlet cable
- » Helps reduce interference to TV set top box tuner, by only allowing a desired frequency to pass
- » Provides a dedicated FM connection point for your FM receiver
- » DC power passing only
- » Frequency range FM 88-108 MHz, FTA 174-694 MHz and satellite 950-2450 MHz
- » Gloss finish

## Audio Video



### Large Bullnose Outlet Plate

- » Bull nose cable management solution for computer networks, home theatre systems
- » Cabling remains neat, tidy and secure via the cable management push through system
- » Large opening which can accommodate a large run of cables at once
- » Easy to run cables through the wall
- » Detachable nose for flush installations
- » Available in multiple configurations below

Product Code	Colour
O5MM-WP61	White
O5MM-WP61B	Black



### 2 Way Outlet Plate with Cable Management including 2 Blank Inserts

- » Push through cable management solution for computer networks, home theatre systems
- » Cabling remains neat, tidy and secure via the cable management push through system
- » Easy to run cables through the wall
- » 2 way outlet also includes 2 blank inserts
- » Available in multiple configurations below

Product Code	Colour
O5MM-WP62	White
O5MM-WP62B	Black

# Wall Plates



## Bull Nose Outlet Plate with Brush Cover

- » This bull nose cable management wall plate keeps cables tidy and secure
- » Suitable for computer networks, home theatre systems, or any application which involves in-wall cabling
- » Has a large opening that accommodates a large run of cables at once
- » Allows cables to enter the wall cavity space without the need for inter-connect fittings
- » Ideal for pre-made leads directly out of the wall cavity
- » Brush keeps dust away
- » Available in multiple configurations below

Product Code	Colour
O5MM-WP63	White
O5MM-WP63B	Black



## Outlet Plate with Brush Cover

- » This narrow opening cable management wall plate keeps cables tidy and secure
- » Suitable for computer networks, home theatre systems, or any application which involves in-wall cabling
- » Has a narrow opening that accommodates additional direct connection of pre-terminated cables
- » Allows cables to enter the wall cavity space without the need for inter-connect fittings
- » Ideal for pre-made leads directly out of the wall cavity
- » Brush keeps dust away
- » Available in multiple configurations below

Product Code	Colour
O5MM-WP64	White
O5MM-WP64B	Black



## Outlet Plate with Reverse Bull Nose

- » This reverse bull nose cable management wall plate keeps cables tidy and secure
- » Suitable for computer networks, home theatre systems, or any application which involves in-wall cabling
- » Has a large opening that accommodates a large run of cables at once and allows 3 pin power cords to easily pass through
- » Allows cables to enter the wall cavity space without the need for inter-connect fittings
- » Ideal for pre-made leads directly out of the wall cavity
- » Brush cover to keep dust away
- » Available in multiple configurations below

Product Code	Colour
O5MM-WP65	White
O5MM-WP65B	Black



## 60mm Wall Entry Point for Audio and Video Cable Management (5 Pack)

### O5MM-WP66

- » Australian design registration number 202012922
- » Perfect to use for any audio and video, data or networking cabling
- » 60mm diameter to allow easy pass-through for bulk or large cables
- » Quick and simple installation by using a hole saw for cutting out; then auto-locking wall clips rotate into place when tightened
- » Eliminate strain on your cables and connectors
- » Perfect to use behind wall-mounted screens, soundbars, speakers etc
- » High-quality heat resistant plastic
- » \*Flylead, HDMI lead, data cables not included

## Recessed Wall Points



### Recessed Wall Point

#### O4MM-RP01

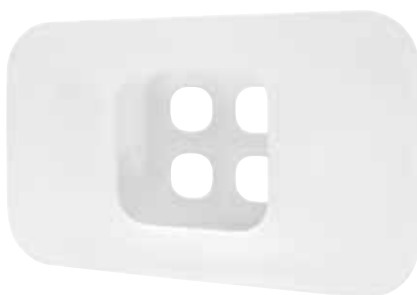
- » Suitable for residential and commercial buildings with paintable faceplate
- » Compatible with all major wall outlet brands
- » Designed for 70mm and 90mm wall cavities
- » Quick and easy installation template included
- » Simple twist clamp design for easy installation
- » High quality heat resistant plastic
- » Cutout size: 168x120mm (Use the manual inside the box as a template)
- \*Power point not included



### Recessed Wall Point with Built-in Cable Management System

- » Suitable for residential and commercial buildings with paintable faceplate
- » Compatible with all major wall outlet brands
- » Designed for 70mm and 90mm wall cavities
- » Quick and easy installation template included
- » Simple twist clamp design for easy installation
- » High quality heat resistant plastic
- » Cutout size: 168x120mm (Use the manual inside the box as a template)
- » Available in multiple configurations below

Product Code	Colour
O4MM-RP02	White
O4MM-RP03	Black



### Recessed 4 Way DigiPORT® Wall Plate with Three Blank Inserts

#### O4MM-DP01

- » Four mech ports compatible with Clipsal® 2000 series fitting accessories
- » Perfect for use behind wall-mounted TV's, entertainment cabinets and desks where space is limited for cables and fittings, it takes the strain away from terminations.
- » High-quality heat resistant plastic
- » Suitable for both residential and commercial use
- » Designed for 70mm and 90mm wall cavities with cut-out template and instructions supplied
- » Used with TV F type, PAL mechs, RJ45, RJ12, HDMI and other audio video inserts



## Outlet Plates



### Outlet Plate

- » Compact design
- » Gloss finish
- » White outlet plate
- » Removable cover to hide gyprock installation
- » Contains 2x mounting screws for Gyprock
- » Available in multiple configurations below

Product Code	Outlet	Blank Inserts
O5MM-WP51	1 Way	-
O5MM-WP52	2 Way	1
O5MM-WP54	4 Way	3
O5MM-WP56	6 Way	5



### 3GHz Outlet Skirting Plate

#### DA-L735F3G

- » Foxtel approved (F10124)
- » Coaxial connector for use on skirting boards
- » Compact and clean design
- » Blue 3G rated inner
- » White plastic casing





# Wall Plate Inserts

Product Catalogue



## Inserts



### 'F' Female to 'F' Female 3GHz Wall Plate Insert

- » Foxtel approved (F30828)
- » Nickel-plated brass fitting
- » 3GHz frequency rated
- » Suitable for FTA and satellite signals
- » Available in multiple configurations below



Product Code	Pack Size
O5MM-WA01	8
O5MM-WA01P20	20



### IEC (PAL) Female to 'F' Female Wall Plate Insert

- » Suitable for FTA TV
- » Nickel plated connector
- » Suits standard Clipsal fitting wall plates
- » Return loss >10dB
- » Fully shielded 'F' type rear connector
- » Available in multiple configurations below

Product Code	Pack Size
O5MM-WA11	8
O5MM-WA11P20	20



### Speaker Wire Binding Post Inserts (4 Pack)

#### O5MM-WA02

- » Speaker binding posts, suitable for banana plugs or bare wire
- » Extended rear thread for easier installation
- » Red and black bands for quick identification
- » Convenient 4 red and 4 black inserts pack
- » Gold plated



### HDMI® to HDMI® Female Right Angle Insert

- » HDMI® right angle insert for tight or confined spaces
- » Gold plated HDMI® connectors
- » Passes both 1080p Standard Speed and 4K High Speed HDMI® specification
- » Eliminate strain on your cables and connectors
- » Also suitable for most Clipsal® outlet plates
- » Available in multiple configurations below

Product Code	Pack Size
O5MM-WA05	4
O5MM-WA05BP	20



### HDMI® to HDMI® Female Insert

- » Straight through insert
- » Gold plated HDMI® connectors
- » Passes both 1080p Standard Speed and 4K High Speed HDMI® specification
- » Eliminate strain on your cables and connectors
- » Also suitable for most Clipsal® outlet plates
- » Available in multiple configurations below

Product Code	Pack Size
O5MM-WA06	4
O5MM-WA06BP	20

# Wall Plate Inserts



## 3.5mm Stereo Socket Wall Plate to 2 Female RCA Tails (4 Pack) O5MM-WA07

- » 3.5mm Stereo Audio to RCA wall plate insert
- » Suitable for most Clipsal® outlet plates and Matchmaster's O5MM-WP series plates
- » Matched perfectly with Matchmaster's O4MM-WP57 for VGA and Audio extension for offices, schools and commercial fit outs
- » Eliminate strain on your cables and connectors
- » Gold plated contacts with 90cm RCA cable tails
- » 4 pieces per pack



## HDMI® Insert to HDMI® Female Short Cable

- » Straight through insert with flexible 115mm tail
- » Gold plated HDMI® connectors
- » Passes both 1080p Standard Speed and 4K High Speed HDMI® specification
- » Eliminate strain on your cables and connectors
- » Also suitable for most Clipsal® outlet plates
- » Available in multiple configurations below

Product Code	Pack Size
O5MM-WA09	4
O5MM-WA09B	10
O5MM-WA09W	10



## USB 3.0 Insert for O5MM-WP Series Wall Plates (2 Pack) O5MM-WA10

- » USB 3.0 type A wall plate insert
- » Also suitable for most Clipsal® outlet plates
- » Eliminate strain on your cables and connectors
- » Gold plated contacts
- » 120mm flexible cable
- » Convenient twin pack

## Diplexers



## Diplexer FTA/Satellite (Suitable for Clipsal® Double Gang Plate) (5 Pack)

### O5MM-DOP2C

- » Foxtel approved (F10234)
- » Includes 2x outlet plate inserts



# Wall Plate Inserts



**Diplexer FTA/Satellite (Suitable for most Clipsal® and HPM wall plates)**

**05MM-DOP2HCSL**

- » Foxtel approved (F10235)
- » Includes 4 outlet plate mechs (2 Clipsal and 2 HPM mechs)
- » Allows you to separate free to air and satellite signal from a single cable
- » Suitable for Clipsal 3, 4, 5, 6 Gang 2000, slimline series and HPM dual wall plates
- » Input frequency range: 5-2400MHz
- » Output frequency range: FTA 5-862MHz and satellite 950-2400MHz



## Power Pass All Port Splitters



**2 Way Wall Plate Splitter DC Only Power Pass (Suits Matchmaster and Clipsal 2000 Series)**

**07MM-SP52C**

- » Frequency range: 5-2400MHz
- » DC only all port power pass
- » 10dB extra screening with soldered back
- » Wall plate fitting with supplied inserts
- » High isolation between outputs
- » Splits cables at the TV point for multiple devices

## Taps



**Loop Plate with Tap Mechanism**

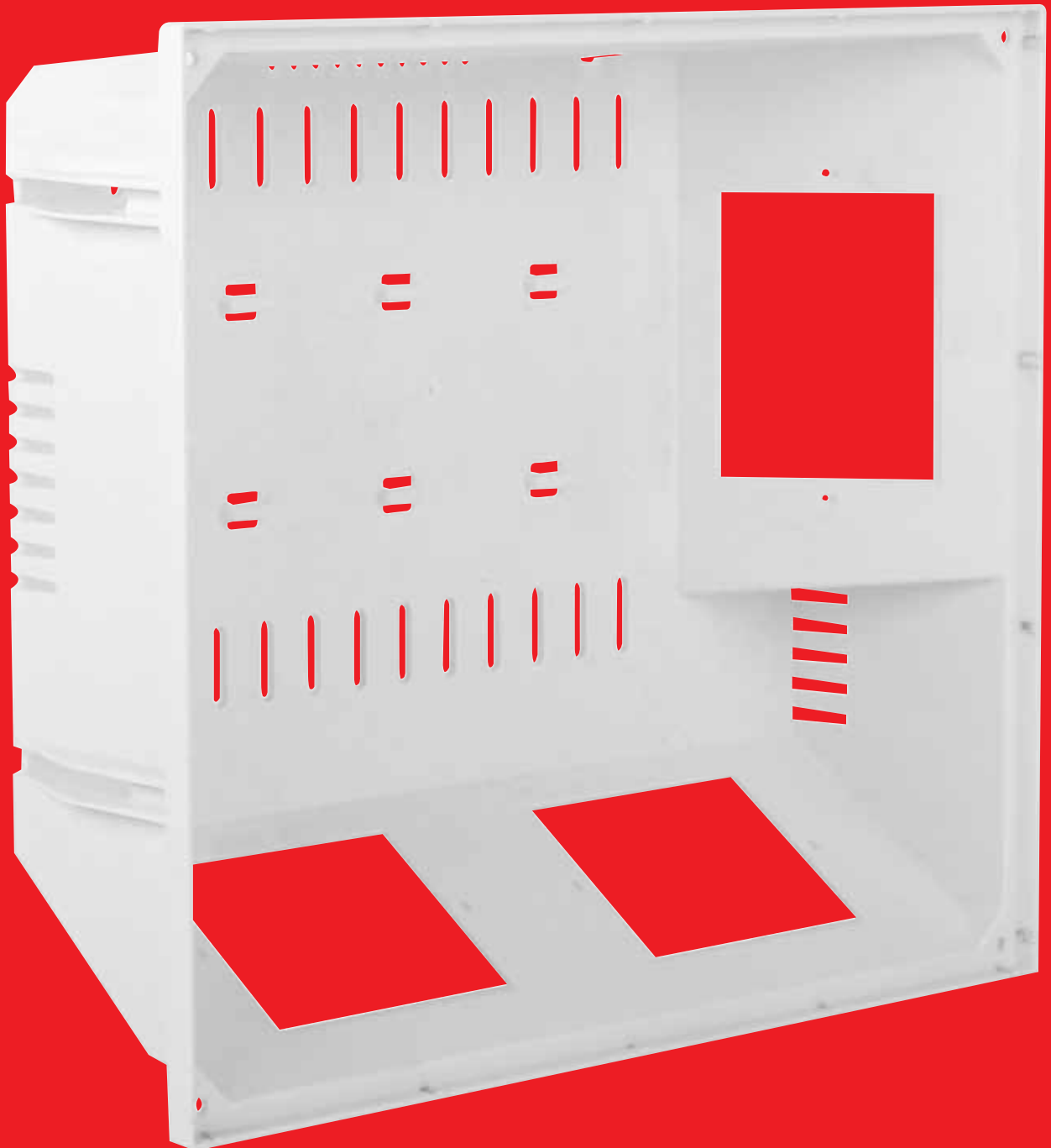
- » Ideal for building upgrades that require complex cabling
- » Includes one outlet plate insert
- » Used to distribute TV reception across multiple outlets
- » Also suitable for most Clipsal® outlet plates
- » Available in multiple configurations below



Product Code	Loss	Foxtel Approved
05MM-LP06T	6dB Terminated	N/A
05MM-LP06	6dB	N/A
05MM-LP09	9dB	F31141
05MM-LP12	12dB	F31142
05MM-LP15	15dB	F31146
05MM-LP18	18dB	F31144
05MM-LP21	21dB	F31145

# Enclosures

Product Catalogue



## Recessed Enclosures



### Hidden Media Hub

#### 04MM-HMH01

- » Australian design registration Number: 355507 and 355508
- » Internal dimensions 285x250x70mm – can hold up to 5 Australian standard faceplates
- » Able to hold signal converters like HDMI converters, DDA24 or modulator
- » Designed for new and existing constructions
- » Suitable for residential and commercial buildings
- » Paintable and easily hides cables in the wall cavity
- » Cutout size: 285x250mm (Use the hubs inner wall unit as a template)

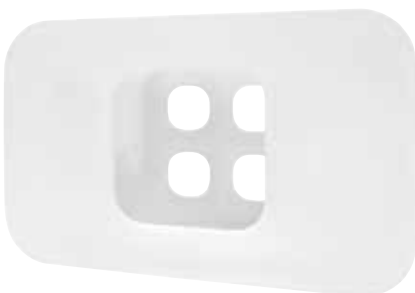


### Recessed Wall Box with Built-in Cable Management System

#### 04MM-RP04

- » Suitable for residential and commercial buildings with paintable faceplate
- » Compatible with all major wall outlet brands supporting up to two wall plates, plus includes two brush plates and one mech insert to allow for cable pass through and fit off.
- » Designed for 70mm and 90mm wall cavities
- » Quick and easy installation template included for wall cut-out
- » A simple twist clamp design for easy installation
- » High-quality heat resistant plastic  
Power point, HDMI lead, flylead, RJ45 mech, data cables not included.

## Recessed Wall Points



### Recessed 4 Way DigiPORT® Wall Plate with Three Blank Inserts

#### 04MM-DP01

- » Four mech ports compatible with Clipsal® 2000 series fitting accessories
- » Perfect for use behind wall-mounted TV's, entertainment cabinets and desks where space is limited for cables and fittings, it takes the strain away from terminations.
- » High-quality heat resistant plastic
- » Suitable for both residential and commercial use
- » Designed for 70mm and 90mm wall cavities with cut-out template and instructions supplied
- » Used with TV F type, PAL mechs, RJ45, RJ12, HDMI and other audio video inserts







## Recessed Wall Point

### 04MM-RP01

- » Suitable for residential and commercial buildings with paintable faceplate
- » Compatible with all major wall outlet brands
- » Designed for 70mm and 90mm wall cavities
- » Quick and easy installation template included
- » Simple twist clamp design for easy installation
- » High quality heat resistant plastic
- » Cutout size: 168x120mm (Use the manual inside the box as a template)
- » \*Power point not included



## Recessed Wall Point with Built-in Cable Management System

- » Suitable for residential and commercial buildings with paintable faceplate
- » Compatible with all major wall outlet brands
- » Designed for 70mm and 90mm wall cavities
- » Quick and easy installation template included
- » Simple twist clamp design for easy installation
- » High quality heat resistant plastic
- » Cutout size: 168x120mm (Use the manual inside the box as a template)
- » Available in multiple configurations below

Product Code	Colour
04MM-RP02	White
04MM-RP03	Black



04MM-RP01, 2 and 3 Australian design registration numbers:  
201815617, 201815619, 201815620 and 201815621

04MM-RP01, 2 and 3 New Zealand design registration numbers:  
425766, 425767, 425768 and 425769



## Recessed Wall Box with Built-in Cable Management System

### 04MM-RP04

- » Suitable for residential and commercial buildings with paintable faceplate
- » Compatible with all major wall outlet brands supporting up to two wall plates, plus includes two brush plates and one mech insert to allow for cable pass through and fit off.
- » Designed for 70mm and 90mm wall cavities
- » Quick and easy installation template included for wall cut-out
- » A simple twist clamp design for easy installation
- » High-quality heat resistant plastic

*For the Best*



## Wall Plates to Suit All Applications

You may also need a  
**O5MM-WP61**  
See page 131

# DigiHUB<sup>®</sup>

## Product Catalogue



## Enclosures



### 480mm Recess or Surface Mount Enclosure for Home Wiring Systems

#### 30MM-DH400R

- » Designed for recessed or surface mount installations with the ability to adjust to suit any wall depth using the sliding frame edge.
- » Suits data, TV, pay TV, IR control, phone network and security system distribution with a lockable door to protect equipment
- » Compact and discreet for use in the modern smart home. Size: 372x480x111mm (WxHxD)
- » Suitable for homes, apartments, townhouses and offices
- » Handy cutouts in the rear for cable access, power points with punch-out points at the top and bottom for additional cable management
- » Made from high-grade powder-coated steel for durability, it features a removable door and depth adjustable frame edge cover for a tidy finish



### 610mm Enclosure for Home Wiring Systems

#### 30MM-DH610

- » Compact and discreet for use in the modern smart home. (Size: 365.5x610x90mm WxHxD)
- » Suitable for homes, apartments, townhouses and offices
- » Designed for flush recessed and surface mount installations
- » Suits data, TV, pay TV, IR control, phone network and security system distribution with a lockable door to protect equipment
- » Handy punch-outs in the top and bottom for cable access, power points and cable management
- » Made from high-grade powder-coated steel for durability, and features a removable door with a frame edge cover for a neat finish

## Kits



### DigiHUB® 400 Home Hub Kit

#### 30MM-DH400K

- » Matchmaster's all in one cable solution is perfect for the electrical contractor or builder
- » Heavy-duty metal casing with removable door for easy access for fit off
- » Easy distribution of phone, data and tv signals from central location
- » Can be customized for your specific job by adding additional modules
- » Kit includes 10MM-PSD14, 30MM-DH400, 30MM-DHP08, 30MM-DS08 and 30MM-TM48S
- » Compact and discreet for use in the modern smart home (Size: 372x480x111mm WxHxD)



## DigiHUB® 610 Home Hub Kit 30MM-DH610K

- » Matchmaster's all in one cable solution is perfect for the electrical contractor or builder
- » Heavy-duty metal casing with removable door for easy access for fit off
- » Easy distribution of phone, data and tv signals from central location
- » Can be customized for your specific job by adding additional modules
- » Kit includes 10MM-PSD14, 30MM-DH610, 30MM-DHP08, 30MM-DS08 and 30MM-TM48S
- » Recess able hub for discreet use in the modern smart home (Size 365.5 x 610 x 90mm WxHxD)

## Accessories



### 8 Port Cat 6 Patch Panel for DigiHUB® 30MM-DHP08

- » DigiHUB 8 port CAT6 patch panel
- » Colour coded punch down CAT6 keystones
- » Ideal for small businesses and homes
- » Supports up to 8 data outlets
- » Stand alone unit or incorporate the module into the DigiHUB®
- » Product dimensions: 160x50x60mm (WxHxD)



### 4 Way Splitter for FTA and Pay TV 30MM-DS04

- » 4 way DigiHUB® splitter for Foxtel SMS/TDT and FTA services
- » Foxtel approved (F31088)
- » All port power pass (DC only)
- » Frequency range 5-2400 MHz
- » Can pass power to a masthead amplifier via the input port
- » 10dB extra screening with soldered back



### 8 Way Active Splitter with Aux Input 30MM-DS08

- » 2 in 8 out DigiHUB® splitter amplifier for distribution of TV signal. Product dimensions 156x60x57mm (WxHxD)
- » Built in amplifier with gain control
- » 4G filter built in to prevent interference
- » Can be remote powered from output 4 or locally powered by DC jack
- » Pass power to a masthead amplifier via the input port (switch activated)
- » Max 85dBµV output per port with power supply (14VDC 300mA) included



### Mounting Plate for DigiHUB® 30MM-MP01

- » Blank mounting plate to suit all DigiHUB® enclosures
- » Designed to be used with TERRA multiswitches
- » Makes mounting DigiHUB® quick and easy
- » Product dimensions: 330x135x30mm (WxHxD)





## Great Management is Never Seen

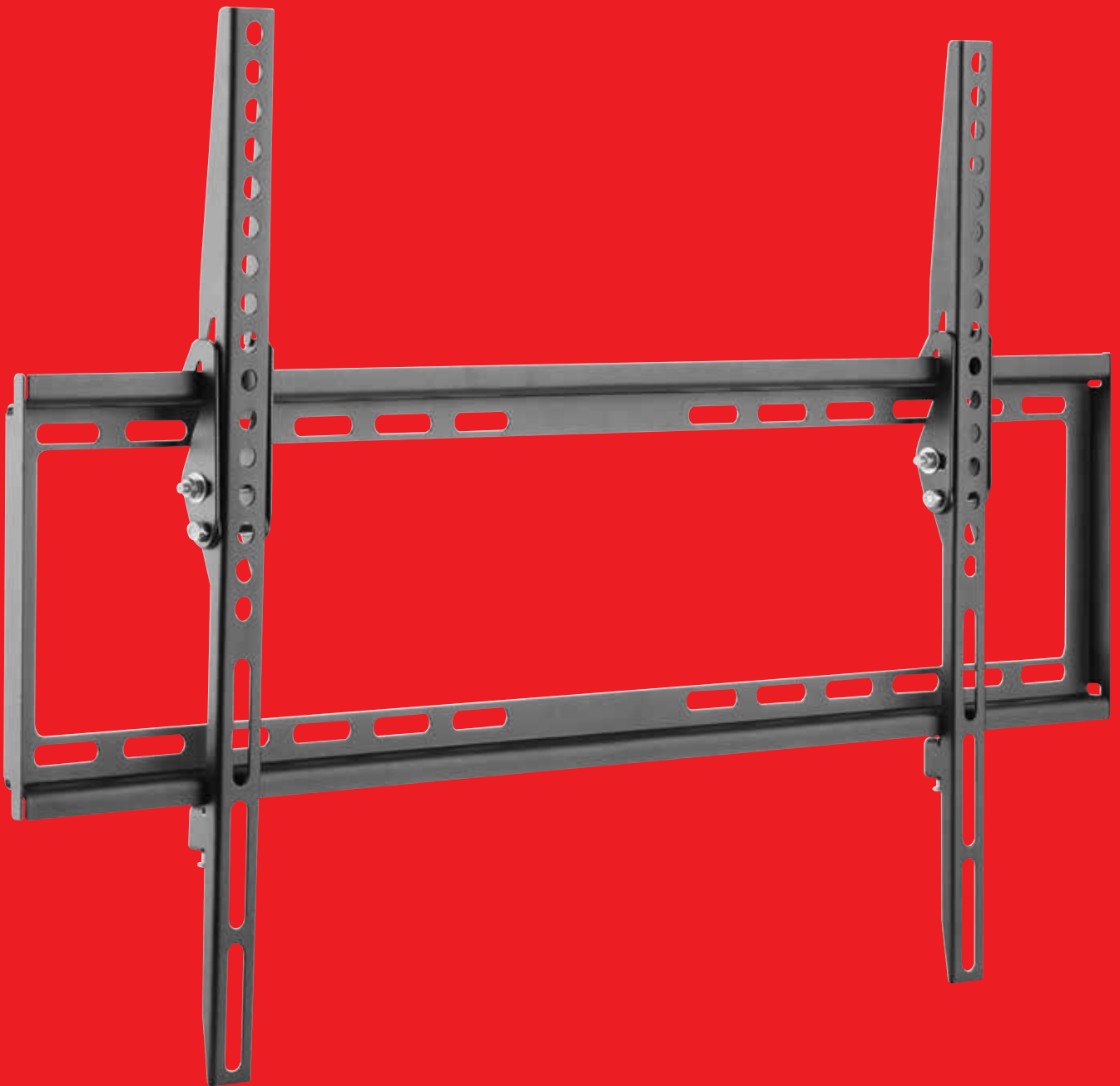
You may also need a  
**05MM-WP66**  
See page 132





# TV Brackets

Product Catalogue



## Flush Mount



### **32-55" 45kg Ultra Slim Rail Mount TV Bracket** **04MM-TB03**

- » Simple to use rail mount bracket for flush mounting TV's
- » Ultra slim design (19mm)
- » Suits TV's 32-55 inch
- » Built in bubble level
- » 45kg load rating



### **37-70" 65kg Ultra Slim Rail Mount TV Bracket** **04MM-TB04**

- » Simple to use rail mount bracket for flush mounting TV's
- » Ultra slim design (19mm)
- » Suits TV's 37-70 inch
- » Built in bubble level
- » 65kg load rating



### **32-55" 75kg Full Wall Plate Flush Mount TV Bracket** **04MM-TB05**

- » Flush mount wall bracket 32-55 inch with full wall mounting back plate
- » Compatible with all hole patterns including VESA standard
- » 75kg load rating
- » Built in bubble level for easier installation



### **37-90"\* 75kg Ultra Slim Full Wall Plate with Tilt TV Bracket** **04MM-TB06**

- » Flush mount wall bracket 37-90 inch\* with full wall mounting back plate
- » Can be tilted -5 degrees by using supplied mounting arm accessories
- » Heavy-duty 75 kg load rating
- » Compatible with all hole patterns including VESA standard
- » Locking bar for anti-theft (padlock required)
- \* Size must be within the range of limit for weight and VESA pattern



### **37-70" 35kg Low Profile Full Wall Plate with Tilt TV Bracket** **04MM-TB06LP**

- » 20.5mm super low profile
- » Flush mount wall bracket 37-70 inch with full wall mounting back plate
- » Can be tilted -8 degrees by using supplied mounting arm accessories
- » 35kg load rating
- » Compatible with all hole patterns including VESA standard



### **60-100" 100kg Heavy-duty Full Wall Plate TV Bracket** **04MM-TB11**

- » Extra large heavy-duty fixed design suitable for both flat and curved panel configurations from 60" to 100"
- » Heavy-duty 100KG load rating to support large commercial screens
- » Open architecture design allows easy accommodation of larger recessed hubs for cable management
- » Automatic click in spring lock for added safety
- » 32mm slim profile to allow flush mounting to the wall

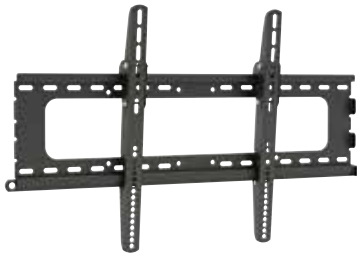
## Tilt Mount



### 32-55" 50kg Full Wall Plate Tilt Mount TV Bracket

#### O4MM-TB05T

- » Tilt mount wall bracket 32-55 inch with 448mm wall mounting backplate
- » Tilt-adjustable 0 to +10 degrees to compensate for high mounting positions
- » Heavy-duty 50kg load rating
- » Compatible with all hole patterns up to VESA standard of 400x400mm
- » Built-in bubble level for easy installation



### 37-90" 75kg Ultra Slim Full Wall Plate with Tilt TV Bracket

#### O4MM-TB06

- » Flush mount wall bracket 37-90 inch\* with full wall mounting back plate
- » Can be tilted -5 degrees by using supplied mounting arm accessories
- » Heavy-duty 75 kg load rating
- » Compatible with all hole patterns including VESA standard
- » Locking bar for anti-theft (padlock required)
- \* Size must be within the range of limit for weight and VESA pattern



### 37-70" 35kg Low Profile Full Wall Plate with Tilt TV Bracket

#### O4MM-TB06LP

- » 20.5mm super low profile
- » Flush mount wall bracket 37-70 inch with full wall mounting back plate
- » Can be tilted -8 degrees by using supplied mounting arm accessories
- » 35kg load rating
- » Compatible with all hole patterns including VESA standard



### 43-90" 75kg Full Wall Plate with Tilt TV Bracket

#### O4MM-TB07

- » Tilt mount wall bracket 43-90 inch\* with full wall mounting back plate
- » Tilt adjustable -10 to +10 degrees with easy grip knobs for quick adjustment and locking
- » Heavy-duty 75kg load rating
- » Compatible with all hole patterns including VESA standard
- » Built in bubble level for easy installation
- \* Size must be within the range of limit for weight and VESA pattern

## Swivel and Tilt



### 23-42" 20kg 360° Tilt and Swivel TV Bracket

#### O4MM-TB01

- » Heavy-duty LCD wall bracket suitable for 23-42 inch TV's
- » Swivelling and 360 degree rotating mounting plate to allow for maximum flexibility and for viewing in portrait or landscape
- » 20kg load rating
- » Anti-theft design (requires padlock)
- » Easy 3 step installation with built in bubble level
- » Slide in VESA plate for easy installation and detachment

# TV Brackets



## 23-55" 30kg Tilt and Swivel Extendable Dual Arm TV Bracket

### O4MM-TB02X

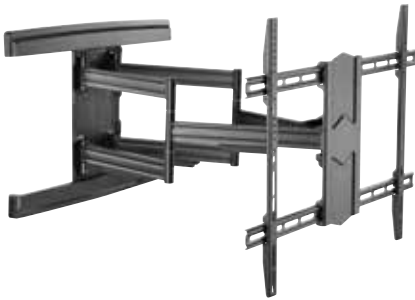
- » Heavy-duty dual-arm LCD wall bracket suitable for 23-55" TVs
- » Tilt (+15--15°) and swivel (+90--90°) adjustable for maximum viewing flexibility
- » 30kg load rating
- » Keyhole pattern allows for easy installation including the following: 75x75, 100x100, 200x100, 200x200, 300x300, 400x400
- » Suitable for corner mounting due to a single stud backplate
- » Profile: 49-395mm
- » \*(Supersedes O4MM-TB02)



## 37-80" 50kg Heavy-duty Tilt and Swivel Extendable Dual Arm TV Bracket

### O4MM-TB08

- » Heavy-duty tilt and swivel extension bracket for large TV's 37-80 inch\*
- » 645mm back plate for mounting across two studs
- » Heavy-duty 50kg load rating
- » Dual support arms for maximum stability
- » Compatible with all hole patterns including VESA standard
- » Built in level adjustment + or -3 degree
- » \* Size must be within the range of limit for weight and VESA pattern



## 43-100" 70kg Tilt and Swivel TV Bracket

### O4MM-TB12

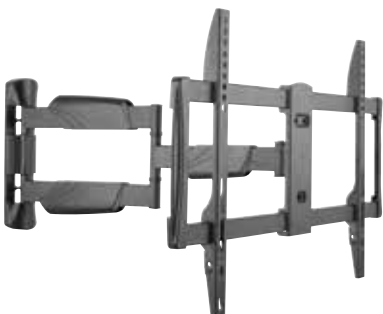
- » Swivel mount wall bracket 43-100 inch with full wall mounting back plate
- » Heavy-duty 70 kg load rating supporting larger screens
- » Max 800mm off the wall allowing larger screens the ability to use all the available swivel.
- » Allows a VESA pattern up to 800 x 600
- » Built-in level adjustment: ensures perfect positioning
- » Post-install lateral shift: makes it easy to centre TV on the wall, even with off-centre studs



## 43-80" 50kg Tilt and Swivel Extendable Arm TV Bracket

### O4MM-TB13

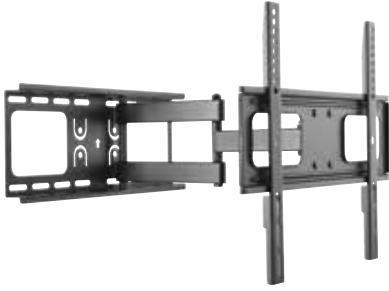
- » 82-1015mm long extension arm provides a wide range of viewing angles
- » Swivelling arms offer maximum viewing flexibility (makes every seat the best seat)
- » Heavy-duty 50 kg load rating to support larger screens
- » Cable management elegantly hides any cables that are attached to displays
- » For most 43"-80" flat-panel TVs
- » Quick-release latch locks and unlocks the unit in place



## 37-70" 35kg Single Stud Mounting Plate with Tilt and Swivel TV Bracket

### O4MM-TB14

- » Single stud wall attachment, perfect for corner mounting TV's
- » Swivelling arms offer maximum viewing flexibility (makes every seat the best seat)
- » Built-in level adjustment ensures perfect positioning.
- » Cable management: elegantly hides any cables that are attached to displays
- » Free-tilting design: for multiple monitor viewing angles
- » Compatible with VESA patterns up to 600x400



## 37-70" 35kg Single Stud Mounting Plate with Tilt and Swivel TV Bracket

### O4MM-TB17

- » Heavy-duty tilt and swivel extension bracket for medium TV's 32-55 inch
- » 480mm backplate for easy stud attachment
- » Heavy-duty 50kg load rating
- » A tilt of +10° to -20° and swivel of 180° allow for a vast range of viewing options
- » Compatible with all hole patterns, including VESA standard up to 400x400mm
- » Built-in level adjustment + or -3 degrees

## Soundbar Mount



## Universal Wall or TV Soundbar Mount

### O4MM-SB01

- » The one-fits-all design gives three mounting options: above the TV, below the TV, or directly on the wall.
- » Adjustable bracket: suits many different soundbars in different sizes - soundbar width: 86-155mm
- » Weight capacity: 15kg
- » Profile: 112-181mm
- » Matte black powder-coated steel to blend in with devices
- » EVA padded base prevents vibration noise

## Mounting Accessories



## 75kg Ceiling Mount Pole for O4MM-TB05, O4MM-TB06 and O4MM-TB07

### O4MM-TB10

- » Heavy-duty ceiling mount extension bracket for use with O4MM-TB05, O4MM-TB06 and O4MM-TB07
- » 360 degree rotation adjustment for optimal viewing
- » Height adjustable range from 1050mm to 1620mm
- » 75kg load rating

## TV Stands



### **37-75" 40kg Universal Tabletop TV Stand**

#### **O4MM-TB16**

- » Suited for screens between 37" to 75" and up to 40kg
- » Suits VESA patterns 200x200, 300x200, 300x300, 400x200, 400x300, 400x400 and 600x400
- » Height adjustable for different sized screens or viewing position
- » Cable management: elegantly hides any cables that are attached to displays
- » High-quality powder-coated finish to prevent scratching
- » Non-skid silicone pads to prevent the base from slipping and or scratching the table surface



# Satellite

Product Catalogue



## Kits



### **65cm Vast Satellite Kit including Dish and LNB** **13MM-65LNB-KIT**

- » VAST reception
- » KU band
- » Rolled edges for greater strength
- » Dish & LNB kit
- » Easy to assemble



### **65cm Vast Satellite Kit including Dish, LNB and Mount** **13MM-65LNBM-KIT**

- » VAST reception
- » KU band
- » Rolled edges for greater strength
- » Dish, LNB & mount Kit
- » Easy to assemble



### **65cm Vast Satellite Kit including Dish, LNB, Mount and Vast STB** **13MM-65LNBVASTM-KIT**

- » VAST reception
- » KU band
- » Rolled edges for greater strength
- » Dish, LNB, mount & STB kit
- » Easy to assemble



### **80cm Vast Satellite Kit including Dish and LNB** **13MM-80LNB-KIT**

- » VAST reception
- » KU band
- » Rolled edges for greater strength
- » Dish & LNB kit
- » Easy to assemble



### **80cm Vast Satellite Kit including Dish, LNB and Mount** **13MM-80LNBM-KIT**

- » VAST reception
- » KU band
- » Rolled edges for greater strength
- » Dish, LNB & mount kit
- » Easy to assemble



### **80cm Vast Satellite Kit including Dish, LNB, Mount and Vast STB** **13MM-80LNBVASTM-KIT**

- » VAST reception
- » KU band
- » Rolled edges for greater strength
- » Dish, LNB, mount & STB kit
- » Easy to assemble



## 90cm Satellite Kit including Dish, Quad LNB and Wall Mount

### 13MM-90CMKIT

- » Foxtel approved
- » Quad offset output LNB
- » Heavy-duty Wall mount
- » Heavy-duty Dish
- » Commercial systems



## 90cm Satellite Kit including Dish, Quad LNB and Tin Roof Mount

### 13MM-90CMKIT-TIN

- » Foxtel approved
- » Quad offset output LNB
- » Heavy-duty tin roof mount
- » Heavy-duty dish
- » Commercial systems



## Dishes



## 65cm KU Band Satellite Dish

### 13MM-R65P

- » Single pack 65cm offset KU band satellite reception dish
- » Rolled edges for added strength
- » Gain of 37.8dB at KU band 12.75GHz
- » Compatible with satellite mount diameters 38 to 50mm
- » Made from galvanised steel with a polyester powder coat finish for high durability
- » Azimuth adjustment 0-360° and elevation adjustment 15-75°



## 80cm KU Band Satellite Dish

### 13MM-R80P

- » Single pack 80cm offset KU band satellite reception dish
- » Rolled edges for added strength
- » Gain of 39.7dB at KU band 12.75GHz
- » Compatible with satellite mount diameters 38 to 50mm
- » Made from galvanised steel with a polyester powder coat finish for high durability
- » Azimuth adjustment 0-360° and elevation adjustment 15-75°



## 80cm KU Band Satellite Dish (5 Pack)

### 13MM-R80P-5

- » Bulk five-pack 80cm offset KU band satellite reception dishes
- » Rolled edges for added strength
- » Gain of 39.7dB at KU band 12.75GHz
- » Compatible with satellite mount diameters 38 to 50mm
- » Made from galvanised steel with a polyester powder coat finish for high durability
- » Azimuth adjustment 0° - 360° and elevation adjustment 15-75°

# Satellite



## 90cm KU Band Satellite Dish

### 13MM-R90P

- » Single pack 90cm offset KU band satellite reception dish
- » Rolled edges for added strength
- » Gain of 40.05dB at KU band 12.75GHz
- » Compatible with satellite mount diameters 38 to 50mm
- » Made from galvanised steel with a polyester powder coat finish for high durability
- » Azimuth adjustment 0-360° and elevation adjustment 15-75°



## 65cm Satellite Dish

### 13MM-SD65

- » Foxtel approved (F30659) 65cm offset steel satellite dish
- » Strong and durable pole mount with rolled edge on the dish for extra strength
- » High-quality powder-coated galvabond steel
- » Suitable for the single and multi-dwelling unit installations (subject to Foxtel guidelines)
- » Suits mounting pole diameter range 41.5mm to 46mm
- » Ku-Band Gain @ 12.50 GHz of 37.44dBi



## 85cm Satellite Dish

### 13MM-SD85J

- » Foxtel approved (F30126)
- » Strong and durable pole mount rolled edge on the dish for extra strength
- » High quality powder coating
- » This offset dish is suitable for the single and multi dwelling unit environment in Australia



## 90cm Satellite Dish

### 13MM-SD90

- » Foxtel approved (F10096)
- » High gain
- » Rolled edges for greater strength
- » Commercial systems
- » Foxtel SMS and 5 Wire systems



## 120cm Satellite Dish

### 13MM-SD120

- » Foxtel approved (F10107)
- » Best suited for commercial installation
- » The polyester based powder coating is designed for the exterior environment, salt spray, light, colour retention and is also weather resistant
- » Strong and durable pole mount
- » High quality LNB holder and powder coated dish



## LNB's



### LNB Quad Offset 10.7GHz

#### 13MM-KF04

- » Foxtel approved (F30553)
- » Quad offset output
- » 10.7GHz local oscillator
- » Reception frequency 11.70 ~ 12.75 GHz
- » High cross-polar isolation >20dB



### LNB Dual 10.7GHz

#### 13MM-KF10

- » Foxtel approved (F30552)
- » Dual output
- » 10.7GHz local oscillator
- » Reception frequency 11.70 ~ 12.75 GHz
- » High cross-polar isolation >20dB



### LNB 10.7 L.O.

- » 10.7GHz local oscillator with output frequency range 950MHz - 2050MHz
- » PLL technology (Phase-Locked Loop) for greater stability
- » Low current operation
- » VAST TV reception plus Optus 10 and Optus D3 reception
- » High gain with low noise
- » Flat output response with +/- 1.0dB across 54MHz bandwidth
- » Available in multiple configurations below

Product Code	Output
13MM-KU1F	Single
13MM-KU2F	Dual
13MM-KU4F	Quad

## Mounts



### Tin Roof Mount for 120cm Satellite Dishes

#### 13MM-1.2TIN-TDT

- » Foxtel approved (F30728)
- » Heavy-duty
- » 76.1mm OD suits 120cm dish
- » TDT systems
- » Suitable for commercial projects
- » Galvanized for corrosion resistance



# Satellite



## Wall Mount for 90cm Satellite Dishes

### 13MM-SBS12

- » Foxtel approved (F10408)
- » Heavy-duty
- » 50mm OD suits 90cm dish
- » Commercial projects
- » Galvanized for corrosion resistance



## Tin Roof Mount for 90cm Satellite Dishes

### 13MM-SBS18

- » Foxtel approved (F10404)
- » Heavy-duty
- » 50mm OD suits 90cm dish
- » Commercial projects
- » Galvanized for corrosion resistance
- » Ideal for mounting on a tin roof and concrete surfaces



## Tin Roof Mount for 60-85cm Satellite Dishes

### 13MM-SM04

- » Australian made from heavy-duty galvanised steel
- » Foxtel approved (F10060/78)
- » Suitable for tin roofs and concrete slabs
- » Suitable for dishes up to 85cm
- » Easy to install



## Wall Mount for 60-85cm Satellite Dishes

### 13MM-SM09

- » Heavy-duty
- » Easy to install
- » Suitable for dishes up to 85cm
- » Galvanized for corrosion resistance



## Gutter Mount for 65-85cm Satellite Dishes

### 13MM-SM17

- » Hot dipped galvanised steel
- » Suitable for timber rafters with tiled roofs
- » Easy to install
- » Suited for 65-85cm satellite dishes



## 590mm Metal Roof Mount for ISP (Internet) Satellite Dishes

### 13MM-SM20

- » Heavy-duty ISP antenna mount for metal roofs and concrete pads
- » Install on pitched or flat surfaces with telescoping support arms for ease of installation
- » 590mm mast height for a discrete installation
- » Made from high-quality galvabond steel
- » No modification is required to the ISP dish leg, so the manufacturer warranty is not voided
- » Proudly made in Australia







## Metal Roof Mount with 1.5m Mast for ISP (Internet) Satellite Dishes

### 13MM-SM21

- » 1.5m heavy-duty ISP antenna mount for metal roofs and concrete pads
- » Install on pitched or flat surfaces with telescoping support arms for ease of installation
- » 1.5m mast height to improve line of sight and minimise heat radiation from the mounting surface affecting the operation of the active antenna
- » Made from high-quality galvabond steel
- » No modification is required to the ISP dish leg, so the manufacturer warranty is not voided
- » Proudly made in Australia



## ISP Mounts



## 590mm Metal Roof Mount for ISP (Internet) Satellite Dishes

### 13MM-SM20

- » Heavy-duty ISP antenna mount for metal roofs and concrete pads
- » Install on pitched or flat surfaces with telescoping support arms for ease of installation
- » 590mm mast height for a discrete installation
- » Made from high-quality galvabond steel
- » No modification is required to the ISP dish leg, so the manufacturer warranty is not voided
- » Proudly made in Australia



## Metal Roof Mount with 1.5m Mast for ISP (Internet) Satellite Dishes

### 13MM-SM21

- » 1.5m heavy-duty ISP antenna mount for metal roofs and concrete pads
- » Install on pitched or flat surfaces with telescoping support arms for ease of installation
- » 1.5m mast height to improve line of sight and minimise heat radiation from the mounting surface affecting the operation of the active antenna
- » Made from high-quality galvabond steel
- » No modification is required to the ISP dish leg, so the manufacturer warranty is not voided
- » Proudly made in Australia



## 1.8m Tin Roof Tripod Mount

### 55MM-SM18

- » 1.8m metal roof mount suitable for ISP, Cellular, TV and Radio antennas
- » Heavy duty 28mm mast outside diameter
- » Telescoping support arms for ease of installation
- » Ideal for cladding rib heights between 16mm and 30mm and rafter and batten spacing from 900-1200mm
- » High-quality galvabond steel
- » Proudly made in Australia





## 3m Telescopic Tripod Mount

### 55MM-SM19

- » 3m telescoping metal roof mount suitable for ISP, cellular, TV and radio antennas
- » Heavy-duty 45mm/38mm lower and upper pole section outside diameters
- » Telescoping support arms for ease of installation
- » Adjustable height up to 3m max. allowing for optimal signal adjustment
- » High-quality galvabond steel
- » Proudly made in Australia



## CAM's



## Multi-service Professional CAM for Decryption of VAST Services in Commercial Systems

### 13MM-VAST-MULTICAM

- » Decode multiple VAST services - up to 10 TV or radio
- » VAST to COFDM headend solutions for remote sites, mine camps etc
- » Combine without WISI or TERRA headends for optimal performance
- » Decrypt services across multiple transport streams

## Accessories



## TERRA Power Inserter for Polarity and Band Switching - 14/18V, 0/22KHz Tone

### 13MM-PI010

- » For insertion of 14VDC, 18VDC and 0 or 22KHz control signal for satellite networks
- » Can be powered from line or external 18VDC power supply (14MM-PSF1A)
- » Frequency range 950-2400MHz
- » 1dB insertion loss
- » 300mA maximum current pass with maximum 30mA current consumption
- » F-Type fittings with fully screened metal body



## Power Inserter 60V 2A 5-2400MHz

### 14MM-PI62

- » Maximum power supply of 60VDC @ 2 amp
- » Can be used to remotely power multiswitches and active taps
- » Foxtel approved (F31093)
- » Frequency range 40 -2400MHz
- » Low insertion loss  $\leq 1.0$  dB
- » Zinc die cast housing, nickel-plated

# Set Top Boxes

Product Catalogue



# Set Top Boxes

## VAST



### VAST Certified HD Dual Channel Recorder

#### 33MM-DCR-UEC

- » Simultaneous 2 channel recording and playback of recorded file from hard drive
- » 8 day electronic program guide and pause live TV
- » Trick modes (play, FFW, REW, pause, jump back, jump forward)
- » Large 500 GB hard drive for up to 400 hours of recording
- » Stores time-shift data to be saved as a recorded program
- » Software upgrade via USB & OTA. VAST certified



### VAST Set Top Box with Card UEC

#### 33MM-STB-UEC

- » STi7111 secure processor core. MPEG-2/4 HD compliant. DVB-S2 front end
- » Compliant with Australian VAST services
- » IRDETO secure silicon conditional access
- » Over-the-air secure software download
- » Optical digital audio output, Dolby digital audio
- » 8 day electronic program guide

## IPTV



### IPTV SAP Receiver Client HD Set Top Box

#### 22MM-IPSTB



- » LINUX operating system
- » SDP/SAP protocol support
- » Multimedia file browser to play back local content via USB port
- » High performance CPU
- » Supports HDMI version 2.0a with CEC up to 4K 60p HDR
- » Software updates via USB

## Accessories



### VAST Set Top Box Remote Control

#### 33MM-DSD4121

- » Replacement remote control

# Multiswitch Systems

Product Catalogue



## 2 Wire



### 2 Wire Satellite Multiswitch 2 In 4 Out 21MM-SMS28

- » Foxtel approved (F30927)
- » View any horizontal or vertical polarity satellite from any outlet in your TV system
- » High output with 3dB gain
- » High isolation port to port
- » Wide band frequency to 2400MHz
- » Ideal for satellite pay TV and vast distribution. Connects up to 4 satellite receivers or 2 IQ receivers



**TERRA**

## 3 Wire



### 3 Wire Satellite Multiswitch

- » Foxtel approved
- » Allows your TV system to be satellite and pay TV compatible
- » High output 85dBuV satellite (subject to input power)
- » Low gain on satellite
- » Negligible MER loss
- » Available in multiple configurations below



Product Code	In	Out	Foxtel Approved
21MM-SMS34	3	4	F30045
21MM-SMS38	3	8	F30046

## 5 Wire



### TERRA 5 Wire Multiswitch Mains Powered

- » Foxtel approved
- » For star distribution system of 4 satellite IF polarities and terrestrial TV signal up to 4 users
- » 16 positions discrete gain regulator for terrestrial TV
- » Built-in power supply for remote DC feeding
- » Possibility to feed pre amplifier through terrestrial TV input
- » Used with 5 Wire products only
- » Available in multiple configurations below



**TERRA**

Product Code	In	Out	Users	Foxtel Approved
21MM-MR508	5	8	Up to 2	F30817
21MM-MR512	5	12	Up to 4	F30818
21MM-MR516	5	16	Up to 8	F30819
21MM-MR524	5	24	Up to 12	F30820
21MM-MR532	5	32	Up to 16	F30821



# Multiswitch Systems



## TERRA 5 Wire Multiswitch Remote Powered

- » Foxtel approved
- » Suitable for large installations of satellite IF distribution systems
- » Length of the subscriber line up to 80 meters (must meet pay TV provider specifications)
- » Four positions discrete gain regulator for each satellite IF line and separate 16 positions discrete gain regulator for terrestrial TV
- » Active terrestrial TV path powering from central power supply allows to receive terrestrial TV programs without switching on satellite TV receiver
- » Used with 5 Wire products only
- » Available in multiple configurations below



**TERRA**

Product Code	In	Out	Foxtel Approved
21MM-MV508	5	8	F30822
21MM-MV512	5	12	F30824
21MM-MV516	5	16	F30823
21MM-MV524	5	24	F30825
21MM-MV532	5	32	F30809



## TERRA 5 Wire Amplifier 4 Satellite 1 Terrestrial Mains Powered

### 21MM-SA51

- » Foxtel approved (F30811)
- » Amplifies 4 polarities of satellite & terrestrial in one device, whilst providing power to the LNB
- » Cascadable with TERRA 5 cable components and can line power up to 12 TERRA multiswitches
- » Easy signal level control with attenuation and slope adjustment on each port
- » Push-pull amplifier on terrestrial TV line
- » Suggested for use with 5 wire products only



**TERRA**



## TERRA 5 Wire Amplifier 4 Satellite 1 Terrestrial Remote Powered

### 21MM-SA51D

- » Foxtel approved (F30810)
- » Amplifies 4 polarities of satellite & terrestrial in one device, whilst providing power to the LNB
- » Cascadable with TERRA 5 cable components and can line power up to 12 TERRA multiswitches
- » Easy signal level control with attenuation and slope adjustment on each port
- » Push-pull amplifier on terrestrial TV line
- » Suggested for use with 5 Wire products only



**TERRA**



## TERRA 5 Wire Splitter 2 Way 4 Satellite 1 Terrestrial

### 21MM-SD504

- » Foxtel approved (F30812)
- » 2 way splitter of 4 satellite+1 terrestrial TV signals
- » Low losses
- » DC pass through satellite TV trunk lines; switchable DC pass to tap H outputs
- » Accepts central pin diameter 1.2 mm maximum
- » Used with 5 Wire products only



**TERRA**

# Multiswitch Systems



## TERRA 5 Wire Tap 4 Satellite 1 Terrestrial

- » Foxtel approved
- » Frequency range terrestrial TV 47-862MHz satellite IF 950-2400 MHz
- » High isolation between outputs
- » Switchable DC through pass to power multiswitches
- » Used with 5 wire products only
- » Available in multiple configurations below

Product Code	Loss	Foxtel Approved
21MM-SD510	10dB	F30813
21MM-SD515	15dB	F30814
21MM-SD520	20dB	F30815



**TERRA**



## TERRA 5 Wire Splitter 4 Way 4 Satellite 1 Terrestrial

### 21MM-SDQ508

- » Foxtel approved (F30816)
- » 4 way splitter of 4 satellite+1 terrestrial TV signals
- » DC pass through H trunk lines; switchable DC pass to tap H outputs
- » Accepts central pin diameter 1.2 mm maximum
- » Used with 5 wire products only
- » Switchable DC through pass to power multiswitches



**TERRA**

# Power Supplies

Product Catalogue



## Power Supplies



### 14V DC 'F' Type Power Supply 10MM-PSD14

- » Reduces protrusion
- » Environmentally smart
- » MEPS and RoHS compliant
- » Male 'F' type connection
- » Output: 14VDC 300mA



### 14V DC 0.3A PAL Type Power Supply 10MM-PSD14P

- » Environmentally smart
- » MEPS and RoHS compliant
- » PAL design
- » Output: 14VDC 300MA



### 12VDC 1A Power Supply with 2.5mm Adaptor (2.1x5.5x11mm) 14MM-PS12V1A

- » 12VDC 1 amp power supply with 2.1mm X 5.5mm X 11mm DC jack with 2.5mm DC jack adaptor supplied
- » Maximum output current 1 amp
- » Switch-mode technology
- » Right-angled DC jack to allow into tight spaces
- » Input: 100 - 240V ~ 50/60Hz
- » Power-efficient switch mode technology



### 18V 1A Power Supply with 'F' Type DC Connector 14MM-PSF1A

- » 18VDC 1A power supply with F type inserter
- » Can be used to locally or remotely power multiswitches and active taps
- » Foxtel approved (F31090)
- » Can be used with 2400MHz rated line inserter (14MM-PI62, sold separately)
- » Input: 100 - 240V ~ 50/60Hz
- » Power efficient switch mode technology



### 18V 2A Power Supply with 'F' Type DC Connector 14MM-PSF2A

- » 18VDC 2A power supply with F type inserter
- » Can be used to locally or remotely power multiswitches and active taps
- » Foxtel approved (F31052)
- » Can be used with 2400MHz rated line inserter (14MM-PI62, sold separately)
- » Input: 100 - 240V ~ 50/60Hz
- » Power efficient switch mode technology





## 60/90V AC 15A Power Supply for Cable Networks 14MM-PVS630

- » Output voltage 60/90 V switchable
- » Maximum output current 15amp
- » Ferroresonant transformer
- » Voltage protection short circuit and alarm
- » Flange fitting 5/8" female
- » Mounting wall or pole



## AC/DC Adaptor 12V DC 1A 50MM-A001

- » Input: 100-240VAC 50/60Hz
- » 12 Volt DC 1000mA output switch mode power supply
- » Suited for Matchmaster's PoE and Wi-Fi CCTV camera's
- » Meets MEPS requirements
- » Double insulated

## Accessories



## TERRA Power Inserter for Polarity and Band Switching - 14/18V, 0/22KHz Tone

### 13MM-PI010

- » For insertion of 14VDC, 18VDC and 0 or 22KHz control signal for satellite networks
- » Can be powered from line or external 18VDC power supply (14MM-PSF1A)
- » Frequency range 950-2400MHz
- » 1dB insertion loss
- » 300mA maximum current pass with maximum 30mA current consumption
- » F-Type fittings with fully screened metal body



## Power Inserter 60V 2A 5-2400MHz 14MM-PI62

- » Maximum power supply of 60VDC @ 2 amp
- » Can be used to remotely power multiswitches and active taps
- » Foxtel approved (F31093)
- » Frequency range 40 -2400MHz
- » Low insertion loss ≤1.0 dB
- » Zinc die cast housing, nickel-plated



## CATV Power Inserter 5-1000MHz 17MM-PI60

- » Current capacity 10 Amps
- » Frequency range 5 - 1000 MHz
- » Low insertion loss <1.5dB
- » High isolation RF/AC ≥ 60dB
- » High return loss



New and Improved  
Water-Resistant  
and UV-Stable  
Heavy-Duty Housing

You may also need a  
**10MM-MA30PDF**  
See page 53



# Test Equipment

## Product Catalogue



## Combination



### Digital TV and Satellite Signal Finder 12MM-DF03

- » Designed to ensure that you position and angle your digital TV antenna/satellite in the correct direction for best reception
- » Suitable for the home, caravan, boating and leisure enthusiast
- » Provides LED lights to show signal strength for antenna/satellite adjustment
- » Easy to use, compact design
- » Includes 9V battery



### Combination Signal Meter for DVB-T/T2/C and DVB-S/S2 with DC Voltage Output 12MM-DSTM2

- » DVB-T/T2, DVB-C and DVB-S/S2 measurements
- » AV input and output suitable for testing and aligning CCTV cameras
- » Built-in DC voltage insertion for powering masthead amplifiers
- » HD 5" TFT LCD screen with MPEG2/4 digital tuner built-in with HDMI output of content
- » USB 2.0 for software updates and media playback
- » The large lithium battery has a capacity of 4000mAh



### Televes H30 Evolution DVB-S/S2, DVB-T/T2 and DVB-C including Wi-Fi, IPTV, AV and HEVC options 12MM-H30EVO-F

**Televes**

- » Measures DVB-S/S2, DVB-T/T2 and DVB-C
- » Wi-Fi, IPTV analyser, HEVC and audio/video analogue features included along with protective carry case (12MM-H30-CASE)
- » Multiscreen and remote control through android/iOS/PC using Wi-Fi or bluetooth allowing remote monitoring, wireless control and channel editing
- » Guided satellite pointing allowing for quick and accurate dish pointing
- » Wideband satellite measurements to 2400MHz to suit stacked signals in dSCR and dCSS systems
- » Included as standard all the great features and ease of use of the H30 range



### Signal Meter with DVB-T and DVB-S/S2 12MM-H30FLEX

**Televes**

- » Compact handheld DVB signal analyser with included protective carry case (12MM-H30-CASE)
- » Default DVB-T and DVB-S/S2 as standard
- » Additional licenses to unlock extra standards DVB-C, T2 and dCSS/SCR functionality
- » Spectrum analyser and built in tuner to view live channels
- » DVB-T powering for masthead amplifiers
- » Optional Licenses: 12MM-T2-LIC - license to activate DVB-T2 function, 12MM-DCSS-LIC - license to activate dCSS & SCR function and 12MM-C-LIC - license to activate DVB-C function



## Televés Tablet Style Handheld Digital Signal Meter

**Televés**

- » Multifunction signal analysis compliant with DVB-T, DVB-S/S2, (measures >2400MHz) DVB-C, FM, DAB/DAB+ and analogue signals, Wi-Fi and IPTV, optical tests on 1310nm, 1490nm and 1550nm and 3.3GHz spectrum analyser
- » Allows the demodulation and analysis of IPTV streams (both unicast and multicast), not only through video display but also by displaying the total bit rate and the relevant information for each service: SID, VPID, AID, video profile, bit rate for both audio and video
- » Ultra fast data logging for all DVB-T/T2, DVB-S/S2 and DVB-C meaning less time spent by a technician in commissioning a system. Li-ion (7.2 VDC, 9,000mAh) easily swappable in the field for long lasting operation
- » Featuring multiple interfaces - Ethernet, USB, HDMI, audio output (Jack), FC/APC optical fibre connector, GPS antenna connector
- » 8" TFT touch screen allowing full customisation of multiscreen display and layout of measurement windows
- » Professional spectrum analyser with ultra-fast digital processing (sweep time < 10 ms) and high dynamic range (> 50 dB). Equipped with advanced functions for the detection and analysis of signals in the 5 MHz to 3,300 MHz (waterfall, event triggers, markers, user configurable RBW and VBW, etc.)
- » Available in multiple configurations below

Product Code	Signal
12MM-MOSAIQ6	DVB-T/T2, DVB-C and DVB-S/S2
12MM-MOSAIQ6-SF	DVB-T/T2, DVB-C, DVB-S/S2 with Selective Fibre Optics



## TV Signal Analyser (Option Pack 1)

### 12MM-S7200-1

- » All standards in one: DVB-C/C2, DVB-T/H/T2, DVB-S/S2, ATSC, ISDB-T
- » Fast spectrum analysis with 5 - 2150MHz frequency range, with maximum span of 1200MHz
- » Various video decoding formats: MPEG-2/4 and H.264 for 1080p, 720p and 576i; Support PAL/NTSC/SECAM colour systems
- » Capacitive touch screen with high resolution 7" TFT LCD
- » Support SD & HD video format
- » Transport stream analysis - option 650.00 Oz, 30GB SSD, CAM & card slot and ASI IN/OUT



## Deviser S7200 Meter with SSD, CAM, IPTV, Wi-Fi and TS Analysis

### 12MM-S7200-2-KIT

- » All standards in one: DVB-C/C2, DVB-T/H/T2, DVB-S/S2, ATSC, ISDB-T
- » Spectrum analysis with 5 - 2150MHz frequency range, with a maximum span of 1200MHz
- » Various video decoding formats: MPEG-2/4 and H.264 for 1080p, 720p and 576i; support PAL/NTSC/SECAM colour systems
- » IPTV, Wi-Fi, and TS analysis with built-in CAM and SSD
- » Capacitive touch screen with high resolution 7" TFT LCD, 30GB SSD, CAM & card slot and ASI IN/OUT

## Free to Air



### Digital TV Signal Finder 12MM-DF02

- » Designed to ensure that you position and angle your digital TV antenna in the correct direction for best reception
- » Suitable for the home, caravan, boating and leisure enthusiast
- » Provides LED lights to show signal strength for antenna adjustment
- » Easy to use, compact design
- » Includes 9V battery

## Optical



### Light Source Testing Meter 12MM-TLS01

Televes

- » Covering three wavelengths (1310, 1490, and 1550nm) and automatically measures your optical plant loss
- » User-selectable power (0dBm to -8dBm)
- » The laser can be disabled for adjustment work
- » Signal modulation
- » Automatic ID: seamlessly pairs with Televes' H-Series system analysers and automatically detects the wavelength
- » Power-saving mode with automatic shut off

## Licenses



### 12MM-MOSAIQ6/6-SF Software Licenses

Televes

- » Individual software unlocking facilitates the application-specific product activation. You only pay for what you use providing absolute flexibility for signal processing
- » 12MM-M6-4K allows signal display with 4K resolution (3,840 x 2,160) and supports the new H.265 HEVC video compression format
- » 12MM-M6-ANALOG allows the measuring of signal levels between 20 dBμV and 128 dBμV, C/N up to 30 dB, and V/A up to 52 dB
- » 12MM-M6-DAB allows power measuring between 20 dBμV and 128 dBμV, standard C/N and MER for DAB & DAB+ signal
- » 12MM-M6-GPS allows measurements to be displayed on a map at the very same spot where they were actually taken, facilitating coverage analysis
- » 12MM-M6-WIFI allows 2.4GHz & 5GHz Wi-Fi band analysis. 5GHz is a much less congested frequency, which means much less interference
- » Available in multiple configurations below

Product Code	Description
12MM-M6-4K	License for 12MM-MOSAIQ6/6-SF 4K UHD
12MM-M6-ANALOG	License for 12MM-MOSAIQ6/6-SF Analogue Measurement
12MM-M6-DAB	License for 12MM-MOSAIQ6/6-SF DAB/DAB+
12MM-M6-GPS	License for 12MM-MOSAIQ6/6-SF GPS Drive Test
12MM-M6-WIFI	License For 12MM-MOSAIQ6/6-SF Wi-Fi 2.4GHz and 5GHz

## Accessories



### Protective Carry Case for 12MM-DS2400T **12MM-DS24CASE**

- » Genuine carry case from Deviser
- » Colour: black
- » Compartments for meter and power supply
- » Side pocket for connectors
- » Handy strap



### Hard Carry Case for 12MM-H30FLEX **12MM-H30-CASE**

Televes

- » Case with dimensions 340x286x104mm that allows housing and carrying the 12MM-H30FLEX field meter
- » This case, made of black opaque plastic, has two locks at the top to offer more security when it is transported
- » The inside is cover of hard polyurethane foam, which provides an outstanding impact resistance, while minimizing the falling risks
- » Suitable for the 12MM-H30FLEX



### Protective Soft Case for 12MM-H30FLEX **12MM-H30-SC**

Televes

- » Suitable for the 12MM-H30FLEX
- » Protective cover ideal for daily use
- » Helps protect your investment from damage due to operation environment or weather conditions
- » Durable compact design



### Field Swappable Battery for 12MM-MOSAIQ6/6-SF **12MM-M6-BATTERY**

Televes

- » Keep your MOSAIQ6/6-SF operating with a spare charged battery
- » Lithium Ion (7.2 VDC, 9,000mAh) swappable in the field
- » Standalone charging so the battery can be charged separate to the meter to allow for continuous use
- » High quality with factory charge cycle providing up to 4hrs field operation
- » Genuine manufacturer replacement battery

## Power Supplies



### Mains Charger Power Supply for 12MM-DS2400T **12MM-DS2400T-PS**

- » Australia mains compliant
- » Switch mode design
- » Double insulated
- » Complete with all attachments
- » Charges internal battery
- » Offers power supply function for 24 hour operation



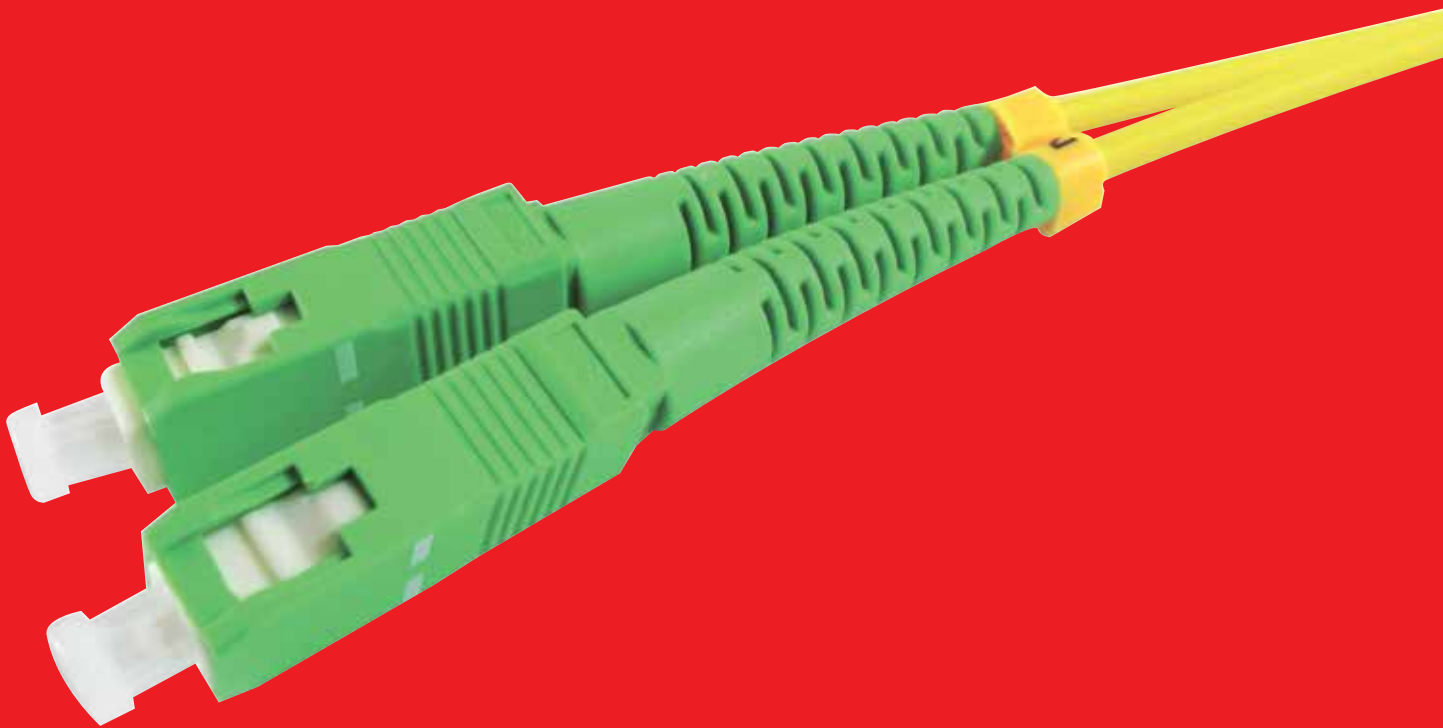
## **Mains Charger Power Supply for 12MM-S7200-1/3/KIT** **12MM-S7200-PS**

- » Australian mains compliant
- » Switch mode design
- » Double insulated
- » Complete with mains lead and charger adaptor
- » Operate as charger and power supply for 24 hour operation



# Fibre Optics

Product Catalogue



## Matchmaster Fibre Transmitters



### Fibre Transmitter 1550nm 1RU 45-2600MHz with Dual Power Supplies

- » Wide band 45-2600MHz +6dBm optical transmitter - 1RU 19" rack mountable
- » Perfect for use with single band satellite or SMS plus FTA/TDT to transmit across a single SMOF to multiple end receivers
- » SNMP monitoring and configuration via RS232 or RJ45 communications ports
- » Built in power redundancy for those critical sites
- » Front LCD panel with control keys for setup, status display and fault diagnosis
- » Wide input power range with AGC control for signal stability
- » Available in multiple configurations below

Product Code	Output (dBm)
20MM-LT06L	+6dBm
20MM-LT10L	+10dBm

## TERRA Fibre Transmitters



TERRA Electronics has a complete range of commercial MATV and SMATV Fibre transmitters suited for use in MDU and commercial building distribution and FTTH/FTTx applications. TERRA's range of fibre transmitters offers flexibility for your installations with options including 1550nm wavelengths that can be used with EDFA's to greatly expand the subscriber base and a built-in web-based UI for network management and monitoring..

Product Code	Description	Wavelength	Output (dBm)
<b>1310nm Fibre Transmitters</b>			
20MM-MO418L-4D31-1310	TERRA Single SMATV Optical Transmitter 1310nm 6dBm	1310	6
20MM-MO428L-4D31-1310	TERRA Twin SMATV Optical Transmitter 1310nm 6dBm	1310	2x6
<b>3 Wire 1310nm Fibre Transmitters</b>			
20MM-OT301	Optical Transmitter Satellite Horizontal, Vertical and 1 x Terrestrial	1310	6
20MM-OT301L	Optical Transmitter Satellite Horizontal, Vertical and 1 x Terrestrial with LAN Control	1310	6
<b>1550nm Fibre Transmitters</b>			
20MM-MO418-1555	TERRA Single SMATV Optical Transmitter 1555nm 6dBm	1555	6
20MM-MO418L-4D55-1550	TERRA Single SMATV Optical Transmitter 1550nm 6dBm	1550	6
20MM-MO428L-4D55-1550	TERRA Twin SMATV Optical Transmitter 1555nm 6dBm	1550	2x6

## WISI Inverted Nodes



### WISI DOCSIS 3.1 Inverted Nodes 4 Port and 8 Port with 230VAC Powering



- » Provide FTTX access through your existing HFC plant
- » 8 port LC/APC outputs with >2.5dBm
- » All settings available can be locally managed with an OH41 handset from WISI, web-based UI or via remote connected NMS with HMS transponder installed (VT52B, sold separate)
- » RF AGC for regulated input levels
- » DOCSIS-3.1-compliant frequency range: Downstream up to 1.2 GHz, Upstream up to 204 MHz (depending on diplexer)
- » Ruggedized housing with an operating temperature range of -20 to +55°C
- » Available in multiple configurations below

Product Code	Output	Interface	Power
20MM-LR44L4102	4	LC/APC	>2.5dBm
20MM-LR44L8102	8	LC/APC	>2.5dBm

## Fibre EDFA's

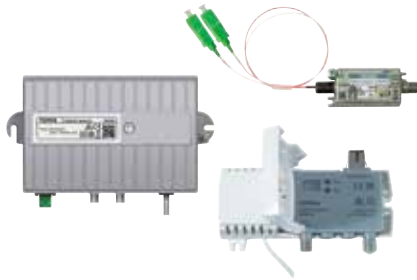


20MM-FA series 1550nm EDFAs are used in CATV and SMATV 1550nm optical fibre transmission systems. The FA series EDFAs are available from as little as a single output right up to 64 output versions and are available in a standard series of output powers or can be customised to suit your network needs. The full range of EDFA is also available with inbuilt WDM if required. Each EDFA has an adjustable output level in 0.1dB steps with up to 4dB control. The FA series comes standard with dual wide-range power supplies for power redundancy and features a built-in WEB UI for network management plus SNMP for monitoring.

Product Code	Description	Power Input (dBm)	Output (dBm)
<b>Common Model EDFA</b>			
20MM-OAD514	TERRA 4 Port 13dBm EDFA with Built in Web UI	-3 to +10	4x13
20MM-OAD518	TERRA 8 Port 10dBm EDFA with Built in Web UI	-3 to +10	8x10
20MM-FA4-14	4 Port 14dBm EDFA with Built in Web UI and SNMP and Dual Power Supplies	-5 to +10	4x14
20MM-FA8-14	8 Port 14dBm EDFA with Built in Web UI and SNMP and Dual Power Supplies	-5 to +10	8x14
20MM-FA16-14	16 Port 14dBm EDFA with Built in Web UI and SNMP and Dual Power Supplies	-5 to +10	16x14
20MM-FA4-17	4 Port 17dBm EDFA with Built in Web UI and SNMP and Dual Power Supplies	-5 to +10	4x17
20MM-FA8-17	8 Port 17dBm EDFA with Built in Web UI and SNMP and Dual Power Supplies	-5 to +10	8x17
20MM-FA16-17	16 Port 17dBm EDFA with Built in Web UI and SNMP and Dual Power Supplies	-5 to +10	16x17
<b>Common Model EDFA with Built In WDM</b>			
20MM-FA4-14W	4 Port 14dBm EDFA with Built in WDM, Web UI and SNMP and Dual Power Supplies	-5 to +10	4x14
20MM-FA8-14W	8 Port 14dBm EDFA with Built in WDM, Web UI and SNMP and Dual Power Supplies	-5 to +10	8x14
20MM-FA16-14W	16 Port 14dBm EDFA with Built in WDM, Web UI and SNMP and Dual Power Supplies	-5 to +10	16x14
20MM-FA4-17W	4 Port 17dBm EDFA with Built in WDM, Web UI and SNMP and Dual Power Supplies	-5 to +10	4x17
20MM-FA8-17W	8 Port 17dBm EDFA with Built in WDM, Web UI and SNMP and Dual Power Supplies	-5 to +10	8x17
20MM-FA16-17W	16 Port 17dBm EDFA with Built in WDM, Web UI and SNMP and Dual Power Supplies	-5 to +10	16x17

\* Additional models available upon request

## TERRA Fibre Receivers



TERRA Electronics has a complete range of commercial MATV and SMATV Fibre nodes suited from small apartments to larger MDU and commercial building applications. TERRA's range of fibre nodes offers flexibility for your installations, including local mains and remote powered options with built-in wide-range gain and slope controls, built-in WDM on selected models, and split outputs on the OD009 series.

Product Code	Description	Power Input	Output (dBμV) AGC*
<b>Fibre Nodes MATV</b>			
20MM-OD003	TERRA Fibre Receiver with SC/APC Connector 47-1002MHz	230V AC	80
20MM-OD005P	TERRA Fibre Receiver with SC/APC Connector 47-862MHz	230V AC	106
20MM-OD102	TERRA Fibre Receiver 114dBμV Output with SC/APC Connectors 47-862/1006MHz	230V AC	114
20MM-OD202	TERRA Fibre Receiver 117dBμV Output with SC/APC Connectors 47-862/1006MHz	230V AC	117
<b>Fibre Nodes SMATV</b>			
20MM-OD004	TERRA Fibre Receiver with SC/APC Connector 47-2400MHz	230V AC/10-20V DC	80
20MM-OD007	TERRA Mini Fibre Receiver with FC/APC Connector 47-2400MHz	10-20V DC	70
20MM-OD009	TERRA Fibre Receiver with SC/APC Connector 47-2400MHz	10-20V DC	85
<b>Fibre Nodes SMATV with Built in WDM</b>			
20MM-OD007H	TERRA Mini Fibre Receiver with SC/APC Connectors with WDM 47-2400MHz	10-20V DC	70
20MM-OD009H	TERRA Fibre Receiver with SC/APC Connectors with WDM 47-2400MHz	10-20V DC	85
<b>Fibre 3 Wire Receivers</b>			
20MM-OR301	Optical Receiver Satellite Horizontal, Vertical and 1 x Terrestrial	10-20V DC	80
20MM-OR301M	Optical Receiver 4 x Multiswitch including Terrestrial Outputs	10-20V DC	80

\* See official data sheets for testing standards

## WISI Fibre Receivers



WISI MATV distribution fibre nodes are commercial-grade components suited for small apartments to larger MDU's, commercial buildings and mining applications. WISI's range of nodes offers flexibility for your installations, including active return path, local mains, and remote powered options. In addition, WISI has a range of DOCSIS 3.1 compliant products and has optional pluggable diplexers and taps for ultimate flexibility in your network builds. The fibre nodes are all typically IP66 rated, allowing use in outdoor pedestals and other harsh environments, and many new models feature Bluetooth connectivity for simple wireless control and testing.



Product Code	Description	Max Output (dBμV)*
<b>Locally Powered MATV Fibre Nodes</b>		
20MM-LR222001	WISI 230V Fibre Optic Receiver High Output 109dBμV - 85-1218MHz	109
20MM-LR272612	WISI 230V Fibre Optic Receiver High Output 109dBμV - 85-1218MHz	109
<b>Remote AC Powered MATV Fibre Nodes</b>		
20MM-LR276612	WISI 27-65V AC Remote Powered Fibre Optic Receiver - 85-1218MHz	109
<b>Accessories</b>		
<b>Pluggable Taps and Splitters</b>		
14MM-XM25B0044	WISI Pluggable 4/4dB Output Splitter for VX26H, LR2x Series	
14MM-XM25B0082	WISI Pluggable 8/2dB Output Tap for VX26H, LR2x Series	
14MM-XM25B0131	WISI Pluggable 13/1dB Output Tap for VX26H, LR2x Series	
<b>Pluggable Diplexer Filters</b>		
14MM-XE50B0650	WISI Diplexer Filter 65/85MHZ for VX5xB and LR2x Series	
14MM-XE50B0850	WISI Diplexer Filter 85/108MHZ for VX5xB and LR2x Series	
14MM-XE50B2040	WISI Diplexer Filter 204/258MHZ for VX5xB and LR2x Series	
<b>Adaptors and Accessories</b>		
14MM-LB01	WISI Bluetooth Antenna for Compatible VXxx and LRxx Series	
14MM-ZG01	WISI 5/8" to PG11 Adaptor	
14MM-ZG28	WISI PG11 to F Type Adaptor	

\* See official data sheets for testing standards



## Splitters



### Optical Splitters

- » SC/APC angle-polished optical connectors as standard (other models available by special order)
- » Available from 2 way to 32 way in 19" rack or ABS box stand-alone form
- » All connectors on the front panel in 19" form for ease of access
- » Excellent polarization insensitivity
- » High-quality optical splitters for wideband performance with 1310nm, 1490nm and 1550nm systems
- » Return loss >55dB
- » Available in multiple configurations below

Product Code	Output	Style	Insetion Loss (dB)
20MM-OSP2-19	2 Way	19" Rack Mounted	4.0
20MM-OSP4*2-19	4x2 Way	19" Rack Mounted	4.0 per splitter
20MM-OSP8*2-19	8x2 Way	19" Rack Mounted	4.0 per splitter
20MM-OSP4-19	4 Way	19" Rack Mounted	7.2
20MM-OSP2*4-19	2x4 Way	19" Rack Mounted	7.2 per splitter
20MM-OSP4*4-19	4x4 Way	19" Rack Mounted	7.2 per splitter
20MM-OSP6-19	6 Way	19" Rack Mounted	8.8
20MM-OSP8-19	8 Way	19" Rack Mounted	10.7
20MM-OSP16-19	16 Way	19" Rack Mounted	13.7
20MM-OSP32-19	32 Way	19" Rack Mounted	17.1
20MM-OSP2-SB	2 Way	Stand-alone ABS Box	4.0
20MM-OSP4-SB	4 Way	Stand-alone ABS Box	7.2
20MM-OSP6-SB	6 Way	Stand-alone ABS Box	8.8
20MM-OSP8-SB	8 Way	Stand-alone ABS Box	10.7
20MM-OSP16-SB	16 Way	Stand-alone ABS Box	13.7
20MM-OSP32-SB	32 Way	Stand-alone ABS Box	17.1



### Optical Splitters Modules

- » AT series optical splitters offer a range of configurations with single and twin inputs and outputs
- » Uses the industry standard connector SC/APC for optical connection
- » Mounts on the AT series 1RU frame
- » Compact design for low density use of rack space
- » Available in multiple configurations below

Product Code	In	Out	Insertion Loss
20MM-SO414	1	4	7dB
20MM-SO418		8	10dB

## OS2 Fibre Patch Leads



### LC Angled to SC Angled OS2 Patch Cords

- » Applications include CATV, data networks, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss of less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below

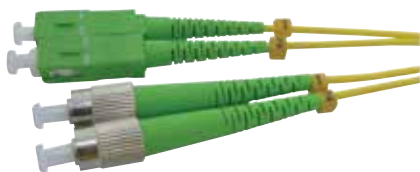
Product Code	Connection	Type	Length
20MM-PS2DLCASCA-1	Duplex	LC Angled to SC Angled	1m
20MM-PS2DLCASCA-2			2m
20MM-PS2DLCASCA-3			3m
20MM-PS2DLCASCA-5			5m
20MM-PS2DLCASCA-10			10m
20MM-PS2DLCASCA-15			15m
20MM-PS2DLCASCA-20			20m



### LC Angled to LC Angled Polished OS2 Patch Cords

- » Applications include CATV, data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PS2DLCA-1	Duplex	LC Angled to LC Angled	1m
20MM-PS2DLCA-2			2m
20MM-PS2DLCA-3			3m
20MM-PS2DLCA-5			5m
20MM-PS2DLCA-10			10m
20MM-PS2DLCA-15			15m
20MM-PS2DLCA-20			20m
20MM-PS2DLCA-25			25m
20MM-PS2DLCA-30			30m



### 1m FC Angled to SC Angled Duplex OS2 Patch Cord

#### 20MM-PS2SCAFCA-1

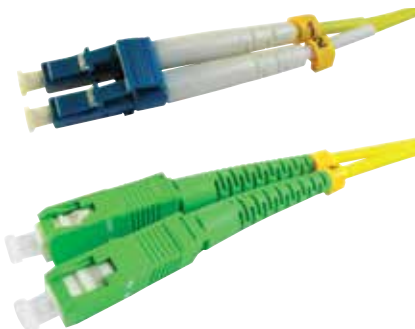
- » Perfect for use with Terra OD007 receiver's and OAD series EDFA's to convert the FC angled connection to the more common SC angled fitting.
- » Applications include data networks, telecommunications, optical switch networks, industrial and medical.
- » 3mm buffer offers industry standard protection
- » Precision ferrules ensure a consistent low loss.
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Test reports provided with each patch cord



## LC to LC OS2 Patch Cords

- » Applications include data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below

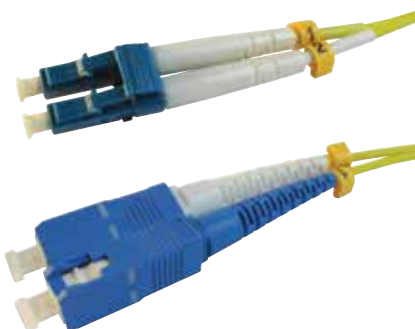
Product Code	Connection	Type	Length
20MM-PS2DLC-1	Duplex	LC to LC	1m
20MM-PS2DLC-2			2m
20MM-PS2DLC-3			3m
20MM-PS2DLC-5			5m
20MM-PS2DLC-10			10m
20MM-PS2DLC-15			15m
20MM-PS2DLC-20			20m
20MM-PS2DLC-25			25m
20MM-PS2DLC-30			30m



## LC to SC Angled OS2 Patch Cords

- » Applications include CATV, data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PS2DLCSCA-1	Duplex	LC to SC Angled	1m
20MM-PS2DLCSCA-2			2m
20MM-PS2DLCSCA-3			3m
20MM-PS2DLCSCA-5			5m
20MM-PS2DLCSCA-10			10m
20MM-PS2DLCSCA-15			15m
20MM-PS2DLCSCA-20			20m

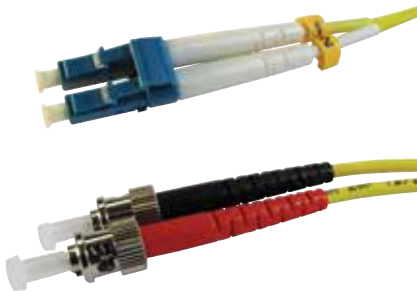


## LC to SC OS2 Patch Cords

- » Applications include data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PS2DLCSC-1	Duplex	LC to SC	1m
20MM-PS2DLCSC-2			2m
20MM-PS2DLCSC-3			3m
20MM-PS2DLCSC-5			5m
20MM-PS2DLCSC-10			10m
20MM-PS2DLCSC-15			15m
20MM-PS2DLCSC-20			20m
20MM-PS2DLCSC-25			25m
20MM-PS2DLCSC-30			30m

# Fibre Optics



## LC to ST OS2 Patch Cords

- » Applications include data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below

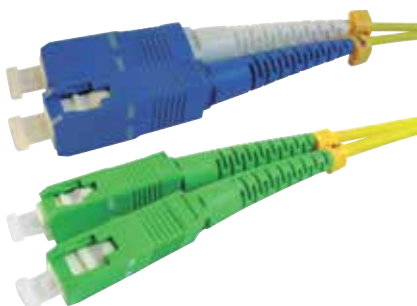
Product Code	Connection	Type	Length
20MM-PS2DLCST-1	Duplex	LC to ST	1m
20MM-PS2DLCST-2			2m
20MM-PS2DLCST-3			3m
20MM-PS2DLCST-5			5m
20MM-PS2DLCST-10			10m
20MM-PS2DLCST-15			15m
20MM-PS2DLCST-20			20m



## SC Angled to SC Angled Polished OS2 Patch Cords

- » Applications include CATV, data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PS2DSCA-1	Duplex	SC Angled to SC Angled	1m
20MM-PS2DSCA-2			2m
20MM-PS2DSCA-3			3m
20MM-PS2DSCA-5			5m
20MM-PS2DSCA-10			10m
20MM-PS2DSCA-15			15m
20MM-PS2DSCA-20			20m



## SC to SC Angled OS2 Patch Cords

- » Applications include CATV, data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PS2DSCSCA-1	Duplex	SC to SC Angled	1m
20MM-PS2DSCSCA-2			2m
20MM-PS2DSCSCA-3			3m
20MM-PS2DSCSCA-5			5m
20MM-PS2DSCSCA-10			10m
20MM-PS2DSCSCA-15			15m
20MM-PS2DSCSCA-20			20m

## SC to SC OS2 Patch Cords

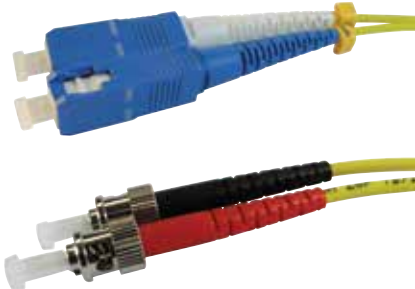
- » Applications include data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below



Product Code	Connection	Type	Length
20MM-PS2DSC-1	Duplex	SC to SC	1m
20MM-PS2DSC-2			2m
20MM-PS2DSC-3			3m
20MM-PS2DSC-5			5m
20MM-PS2DSC-10			10m
20MM-PS2DSC-15			15m
20MM-PS2DSC-20			20m
20MM-PS2DSC-25			25m
20MM-PS2DSC-30			30m

## SC to ST OS2 Patch Cords

- » Applications include data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below



Product Code	Connection	Type	Length
20MM-PS2DSCST-1	Duplex	SC to ST	1m
20MM-PS2DSCST-2			2m
20MM-PS2DSCST-3			3m
20MM-PS2DSCST-5			5m
20MM-PS2DSCST-10			10m
20MM-PS2DSCST-15			15m
20MM-PS2DSCST-20			20m

## ST to ST OS2 Patch Cords

- » Applications include CATV, data network, telecommunications, optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord
- » Available in multiple configurations below



Product Code	Connection	Type	Length
20MM-PS2DST-1	Duplex	ST to ST	1m
20MM-PS2DST-2			2m
20MM-PS2DST-3			3m
20MM-PS2DST-5			5m
20MM-PS2DST-10			10m
20MM-PS2DST-15			15m
20MM-PS2DST-20			20m

## OM4 Fibre Patch Leads



### LC to LC OM4 Patch Cords

- » You can easily split duplex OM4 leads into two simplex leads
- » Available from 1m to 30m lengths
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PS2DLCA-1	Duplex	LC to LC	1m
20MM-PS2DLCA-2			2m
20MM-PS2DLCA-3			3m
20MM-PS2DLCA-5			5m
20MM-PS2DLCA-10			10m
20MM-PS2DLCA-15			15m
20MM-PS2DLCA-20			20m
20MM-PS2DLCA-25			25m
20MM-PS2DLCA-30			30m



### LC to SC OM4 Patch Cords

- » You can easily split duplex OM4 leads into two simplex leads
- » Available from 1m to 30m lengths
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PM4DLCSC-1	Duplex	LC to SC	1m
20MM-PM4DLCSC-2			2m
20MM-PM4DLCSC-3			3m
20MM-PM4DLCSC-5			5m
20MM-PM4DLCSC-10			10m
20MM-PM4DLCSC-15			15m
20MM-PM4DLCSC-20			20m
20MM-PM4DLCSC-25			25m
20MM-PM4DLCSC-30			30m



### LC to ST OM4 Patch Cords

- » You can easily split duplex OM4 leads into two simplex leads
- » Available from 1m to 20m lengths
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PM4DLCST-1	Duplex	LC to ST	1m
20MM-PM4DLCST-2			2m
20MM-PM4DLCST-3			3m
20MM-PM4DLCST-5			5m
20MM-PM4DLCST-10			10m
20MM-PM4DLCST-15			15m
20MM-PM4DLCST-20			20m





## SC to SC OM4 Patch Cords

- » You can easily split duplex OM4 leads into two simplex leads
- » Available from 1m to 30m lengths
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Test reports provided with each patch cord
- » Available in multiple configurations below

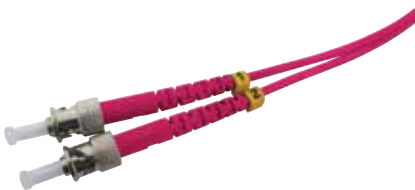
Product Code	Connection	Type	Length
20MM-PM4DSC-1	Duplex	SC to SC Angled	1m
20MM-PM4DSC-2			2m
20MM-PM4DSC-3			3m
20MM-PM4DSC-5			5m
20MM-PM4DSC-10			10m
20MM-PM4DSC-15			15m
20MM-PM4DSC-20			20m
20MM-PM4DSC-25			25m
20MM-PM4DSC-30			30m



## SC to ST OM4 Patch Cords

- » You can easily split duplex OM4 leads into two simplex leads
- » Available from 1m to 20m lengths
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PM4DSCST-1	Duplex	SC to ST	1m
20MM-PM4DSCST-2			2m
20MM-PM4DSCST-3			3m
20MM-PM4DSCST-5			5m
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20MM-PM4DSCST-15			15m
20MM-PM4DSCST-20			20m

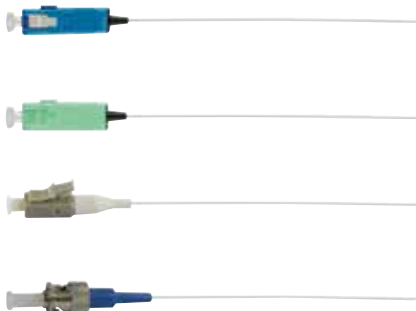


## ST to ST OM4 Patch Cords

- » You can easily split duplex OM4 leads into two simplex leads
- » Available from 1m to 20m lengths
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Test reports provided with each patch cord
- » Available in multiple configurations below

Product Code	Connection	Type	Length
20MM-PM4DST-1	Duplex	ST to ST	1m
20MM-PM4DST-2			2m
20MM-PM4DST-3			3m
20MM-PM4DST-5			5m
20MM-PM4DST-10			10m
20MM-PM4DST-15			15m
20MM-PM4DST-20			20m

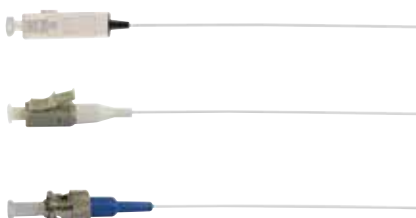
## Pigtails



### OS2 Pigtails

- » Rainbow international standard coloured packs
- » ST, SC, SCA, LC, LCA and FCA individual 2m long pigtails for OS2 fibre
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Low smoke zero halogen
- » Available in multiple configurations below

Product Code	Connection	Type	Colour	Length
20MM-PTS2SC-2	Simplex	SC	1	2m
20MM-PTS2SC-2-6			6	
20MM-PTS2SC-2-12			12	
20MM-PTS2ST-2		ST	1	
20MM-PTS2ST-2-6			6	
20MM-PTS2ST-2-12			12	
20MM-PTS2LC-2		LC	1	
20MM-PTS2LC-2-6			6	
20MM-PTS2LC-2-12			12	
20MM-PTS2FCA-2		FC (APC)	1	
20MM-PTS2SCA-2		SC (APC)	1	
20MM-PTS2SCA-2-6			6	
20MM-PTS2SCA-2-12			12	
20MM-PTS2LCA-2		LC (APC)	1	
20MM-PTS2LCA-2-6			6	
20MM-PTS2LCA-2-12			12	



### OM3 Pigtails

- » Rainbow international standard coloured packs
- » FC, SC, ST and LC individual 2m long pigtails for OM3 fibre
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Low smoke zero halogen
- » Available in multiple configurations below

Product Code	Type	Colour	Length
20MM-PTM3FC-2	FC Simplex	1	2m
20MM-PTM3SC-2	SC Simplex	6	
20MM-PTM3SC-2-6		12	
20MM-PTM3SC-2-12		1	
20MM-PTM3ST-2	ST Simplex	6	
20MM-PTM3ST-2-6		12	
20MM-PTM3ST-2-12		1	
20MM-PTM3LC-2	LC Simplex	6	
20MM-PTM3LC-2-6		12	
20MM-PTM3LC-2-12			



## OM4 Pigtails

- » Rainbow international standard coloured packs
- » SC and LC individual 2m long pigtails for OM4 fibre
- » Crush and kink resistant
- » Precision connectors ensure consistent low loss
- » Flexible and abrasion-resistant LSZH (riser) jacket, durable for indoor use
- » Low smoke zero halogen
- » Available in multiple configurations below

Product Code	Type	Colour	Length
20MM-PTM4SC-2	SC Simplex	1	2m
20MM-PTM4SC-2-6		6	
20MM-PTM4SC-2-12		12	
20MM-PTM4LC-2	LC Simplex	1	
20MM-PTM4LC-2-6		6	
20MM-PTM4LC-2-12		12	

## Fibre Attenuators



## Fibre Attenuators

- » Attenuator SCA, FCA, LC and SC single mode male to female 5dB, 10dB and 15dB
- » Optical attenuators offer complete flexibility to correct power levels in your network
- » High quality
- » Metal assembly
- » Complete with dust caps for protection of interfaces
- » RoHS compliant
- » Available in multiple configurations below

Product Code	Type	Loss
20MM-ATS-SCA-1	SC (Single Mode Male to Female)	1dB
20MM-ATS-SCA-3	SC (Single Mode Male to Female)	3dB
20MM-ATS-SCA-5	SC Angle (Single Mode Male to Female)	5dB
20MM-ATS-SCA-10	SC Angle (Single Mode Male to Female)	10dB
20MM-ATS-SCA-15	SC Angle (Single Mode Male to Female)	15dB
20MM-ATS-SCA-20	SC Angle (Single Mode Male to Female)	20dB
20MM-ATS-FCA-5	FC Angle (Single Mode Male to Female)	5dB
20MM-ATS-FCA-10	FC Angle (Single Mode Male to Female)	10dB
20MM-ATS-FCA-15	FC Angle (Single Mode Male to Female)	15dB
20MM-ATS-LC-5	LC (Single Mode Male to Female)	5dB
20MM-ATS-LC-10	LC (Single Mode Male to Female)	10dB
20MM-ATS-LC-15	LC (Single Mode Male to Female)	15dB
20MM-ATS-SC-5	SC (Single Mode Male to Female)	5dB
20MM-ATS-SC-10	SC (Single Mode Male to Female)	10dB
20MM-ATS-SC-15	SC (Single Mode Male to Female)	15dB

## Break Out Trays



### Break Out Trays

- » 1RU 19" rack mounts allows for any combination of ST, SC and LC faceplates to be fitted
- » Suitable for a combination of fusion splicing, direct termination and pre-terminated cables
- » FOBOT 1RU 19" 3 slots offering flexibility for connections and fibre handling
- » Sliding fibre tray and allows for any combination of ST, SC and LC faceplates
- » Allow for combination of fusion splicing, direct and pre-terminated cables
- » Featuring interchangeable face plates
- » Available in multiple configurations below

Product Code	Style
20MM-FT1RU-F3	Fixed 3 Slot
20MM-FT1RU-S	Sliding 3 Slot

## Adaptors



### OS2 Adaptors

- » Features plastic flange or metal flange
- » Duplex adaptors for most models with simplex for ST and quad available for LC connectors
- » Factory manufactured and thoroughly tested
- » High-quality fibre optic adaptor used for joining cables, used with LC, SC, LCA, SCA and ST connectors
- » Use OS2 adaptors as gender changers
- » RoHS Compliant
- » Available in multiple configurations below

Product Code	Connection	Type
20MM-AS2S-ST	Simplex	ST
20MM-AS2D-SC	Duplex	SC
20MM-AS2D-LC		LC
20MM-AS2Q-LC	Quad	
20MM-AS2D-SCA	Duplex	SC (APC)
20MM-AS2D-LCA		LC (APC)
20MM-AS2Q-LCA	Quad	



## OM3 Adaptors

- » Features plastic flange or metal flange
- » Duplex adaptors for SC, LC with simplex for ST and quad available for LC connectors
- » Factory manufactured and thoroughly tested
- » High-quality fibre optic adaptor used for joining cables, used with LC, SC, and ST connectors
- » Use OM3 adaptors as gender changers
- » RoHS compliant
- » Available in multiple configurations below

Product Code	Connection	Type
20MM-AM3S-ST	Simplex	ST
20MM-AM3D-SC	Duplex	SC
20MM-AM3D-LC		LC
20MM-AM3Q-LC	Quad	



## OM4 Adaptors

- » Features plastic flange or metal flange
- » Duplex adaptors for SC, LC with simplex for ST and quad available for LC connectors
- » Factory manufactured and thoroughly tested
- » High-quality fibre optic adaptor used for joining cables, used with LC, SC, and ST connectors
- » Use OM4 adaptors as gender changers
- » RoHS Compliant
- » Available in multiple configurations below

Product Code	Connection	Type
20MM-AM4S-ST	Simplex	ST
20MM-AM4D-SC	Duplex	SC
20MM-AM4D-LC		LC
20MM-AM4Q-LC	Quad	

## Tools



## Fibre Optic Cleaner Pen

- » Low cost per clean over 800 cleanings per unit
- » Ergonomic, comfortable design with single action cleaning
- » Precise mechanical action delivers consistent cleaning results
- » Uses advanced cleaning thread which removes a variety of contaminants including oil, fingerprints and dust
- » Cleans both adapter/bulkhead receptacle and patch cord connectors
- » Available in multiple configurations below

Product Code	Description
20MM-PC-LC	1.25mm LC/MU, APC and UPC
20MM-PC-SC	2.5mm SC/FC/ST/E2000, APC and UPC



## Smart Enclosures for your Home Networking Requirements

You may also need a  
**30MM-DH400R**  
See page 144



# Commercial & Headend Equipment

Product Catalogue



## Matchmaster Products

### Encoders and Modulators



Digital encoder modulators for HDMI and SD/HD-SDI are used in many headend solutions to integrate video and audio sources into RF and IP networks to allow easy distribution of sources to multiple TVs or receivers. These can be simple private networks to share content around your home or be used in complex RF and IPTV solutions to broadcast to multiple viewers simultaneously. Different models and features are available to suit your network needs, such as WEB based UI control for remote access and MPEG2 or MPEG4/H.264 encoding options.

Product Code	Description	Input	Output
14MM-DTM2	HDMI® to DVB-T HD Modulator H.264 with 4K HDMI® Loop Through	1 x HDMI	1 x DVB-T, 1 x HDMI Loop
14MM-DD2HD-R	Dual HDMI® to COFDM MPEG2/4 Modulator Rack Mount 1RU	2 x HDMI	1 x DVB-T, IP
14MM-DD4HD-R	Quad HDMI® to COFDM MPEG2/4 Modulator Rack Mount 1RU	4 x HDMI	2 x DVB-T, IP
14MM-4HD-DVBT-R	Quad HDMI® to COFDM MPEG4 Modulator Rack Mount 1RU with Composite/Component input option (Composite selectable MPEG2/4)	Selectable 4 x HDMI 4 x CVBS 4 x Component	1 x DVB-T
14MM-DD2HDSI-R	Dual SDI/HDSI to COFDM MPEG2/4 Modulator Rack Mount 1RU	2 x SD/HD-SDI	1 x DVB-T, IP
14MM-DD4HDSI-R	Quad SDI/HDSI to COFDM MPEG2/4 Modulator Rack Mount 1RU	4 x SD/HD-SDI	2 x DVB-T, IP



### Johansson Profiler Revolution and Smart Amplifier



The profiler revolution (14MM-PR07) and smart amplifier (14MM-SM90-5G) are new generation smart DVB-T processors featuring independent inputs for combining multiple antennas or sources. The SM90-5G is auto-programming making it simple to set and forget, while the PR07 can be manually configured by the rotary dial control on the front panel. All channels will be output with even power levels to create a balanced and stable signal for your network. Channels with the same frequency can be independently controlled and output on new frequencies so both can be available in the same network. The PR07 can pass and amplify FM and DAB+ radio, while the SM90-5G is purely for DVB-T signals.



#### Profiler Revolution 14MM-PR07



- » Can process and convert more than 50 channels
- » 5 inputs, 4 x UHF/VHF and 1 x FM
- » Real-time AGC on all individual multiplexes with high output power (120dBµV)
- » Complete flexibility in assigning filters from any input
- » Read-out of input level strength
- » Simple configuration via front dial control



## Smart Masthead Amplifier - Auto Programming with 3 Inputs and 90dBμV AGC Controlled Output **14MM-SM90-5G**

**johansson**  
the original

- » Smart Masthead Amplifier with fully automatic channel scan and process function upon double power cycle start-up
- » Scans all channels, amplifies the weak signals while keeping the strong channels and outputting an AGC controlled 90dBμV
- » SAW filters for LTE (4G/5G) protection on all inputs
- » Processes even the most difficult situations with adjacent channels from multiple antennas
- » All output channels have an equal and stable output power level of 90dBμV
- » Wide range power input - 9V to 18VDC - can be used with 14MM-PSF1A plus 14MM-PI62 or the 10MM-PSD14



## Active Taps

Matchmaster's Johansson active tap series is ideal in domestic and commercial environments for free-to-air TV and Foxtel stacker (SMS) systems. The JA32 tap features a unique double stack design, allowing it to fit the same footprint as the 16 and 8-way unit, making for easy upgrades and use in tight, low space risers where we have to share space with other services. In addition, all taps can be powered remotely or locally and feature built-in slope and gain controls for ease of commissioning.



**johansson**  
the original

- » Foxtel approved
- » It can be remotely powered via an input port, output port or locally powered by a DC Aux port
- » Built-in gain and slope controls for satellite with gain control and 4dB fixed slope for terrestrial.
- » Terrestrial frequency range 47-694MHz, satellite frequency range 950-2400MHz
- » Suitable for residential MDU, aged care and commercial FTA and Foxtel systems
- » Small footprint for ease of installation into small riser and enclosure spaces

Product Code	Description	Gain (dB)	Foxtel Approved
14MM-JA08	8 Way Active Tap for FTA and Satellite (Foxtel SMS) 47-2400MHz	12 Ter, 15 Sat	F31049
14MM-JA16	16 Way Active Tap for FTA and Satellite (Foxtel SMS) 47-2400MHz	12 Ter, 15 Sat	F31050
14MM-JA32	32 Way Active Tap for FTA and Satellite (Foxtel SMS) 47-2400MHz	12 Ter, 15 Sat	F31051

## TERRA Products



### TERRA 400 Series Modular Headend



TERRA's modular reception product range is the latest series of channel filters, processors and transmodulators from TERRA Electronics. Through this equipment series, you can build solutions from simple filters to complex signal processing from DVB-T/T2, DVB-S/S2 and DVB-C inputs with outputs available in DVB-T, DVB-C and IP. In addition, encrypted services can be handled via the built-in common interface's on TTX420C, TDX420C, STI410C and SDI410C to decrypt selected services for injection into your MATV or IPTV system. It has never been easier to manage your builds with many processor modules featuring built-in network management with SNMP and WEB-based user interfaces for control and signal monitoring. The TERRA modular reception range supports both 19" rack mount and wall mount solutions to meet your build requirements. It features optional power redundancy solutions to help build the most reliable system.

Product Code	Description	Input	Output
<b>DVB Filters and Transmodulators</b>			
14MM-AT421	UHF Twin Amplifier 7MHz Channel AGC	UHF	UHF
14MM-AT422	VHF Twin Amplifier 7MHz Channel AGC	VHF	VHF
14MM-KIT-420-VHF6	Headend Kit VHF 6 Channels	VHF	VHF
14MM-KIT-420-UHF6	Headend Kit UHF 6 Channels	6xUHF	6xUHF
14MM-KIT-420-UHF8	Headend Kit UHF 8 Channels	8xUHF	8xUHF
14MM-KIT-420-METRO	Headend Kit VHF/UHF for All Capital Cities	6xVHF/2xUHF	6xVHF/2xUHF
14MM-TTX420	Twin DVB-T/T2/C to DVB-T Transmodulator	DVB-T	DVB-T
14MM-TDX420	Twin DVB-S/S2 to DVB-T Transmodulator - No CI	DVB-S/S2	DVB-T
14MM-TDX420C	Twin DVB-S/S2 to DVB-T Transmodulator 2 x CI	DVB-S/S2	DVB-T
14MM-TDX440	8 DVB-S/S2 Transmodulator to 4 DVB-T Channels	DVB-S/S2	DVB-T
14MM-TDX480	8 DVB-S/S2 Transmodulator to 8 DVB-T Channels	DVB-S/S2	DVB-T
14MM-MHI430	Triple HDMI® to DVB-IP Encoder	HDMI	IP
14MM-MIX440	IP to DVB-T Quad Modulator	IP	DVB-T
14MM-STI440	Quad Input IP Streamer (DVBT/T2/C)	DVB-T/C	IP
14MM-STI441C	Quad Input IP Streamer (DVB-T/T2/C) with Dual CI	DVB-T/C	IP
14MM-MT420C	Twin Modulator 7-8MHz Selectable Stereo	RCA A/V	Analogue RF
<b>Amplifiers</b>			
14MM-MA400	Multi-Channel Headend Multiband Amplifier	FM/VHF/UHF	FM/VHF/UHF
<b>Power Supplies</b>			
14MM-UP410S	TERRA Power Supply with Parallel Power Redundancy Capability - 12V 4.5A	230V AC	12V DC
14MM-UP413	TERRA Power Supply Stand Alone with Built-in RF Combiner - 12V 4.5A	230V AC	12V DC
<b>Accessories</b>			
14MM-MR19-420	TERRA 19" Rack Mount Frame for 400 Series DIN Rail Mount Equipment		
14MM-MR420	1m DIN Rail for Wall Mounting TERRA 400 Series Equipment		
14MM-DC420	TERRA DC Distribution Cable - 4 Connectors		
14MM-DC412	TERRA DC Distribution Cable - 12 Connectors		
14MM-CB420	Female to Female Quick Coaxial Bridge		



## TERRA MATV Amplifiers **TERRA**

TERRA Electronics has a complete range of commercial MATV and SMATV distribution amplifiers suited from small apartments to larger MDU and commercial building applications. TERRA's range of amplifiers offers flexibility for your installations with options including active return path, line powering for upstream and downstream devices, local mains and remote powered options with built-in wide-range gain and slope controls.

Product Code	Description	Gain (dB)	Max Output (dBμV)*
<b>Locally Powered MATV</b>			
10MM-HA024R30	Amplifier 47-862MHz with 30MHz Passive Return Path	30	97
14MM-HA214R65	Amplifier 87-862MHz with 65MHz Return Path	40	109
14MM-BA214	Amplifier 47-862MHz - No Return Path	41	116
14MM-MA077TB	Amplifier Split-Band Multi-Input MATV for FM, VHF and 3x UHF	35 FM & VHF, 44 UHF	121
<b>Locally Powered SMATV</b>			
14MM-HSA001	Amplifier 47-2400MHz - 25dB Sat Gain, 18dB Terr Gain	25 Sat, 18 Terr	115 Sat, 110 Terr
10MM-HSA100	Amplifier 47-2400MHz - 25dB Sat Gain, 18dB Terr Gain	31 Sat, 24 Terr	120 Sat, 115 Terr
14MM-MSA103	Amplifier 47-2400MHz - 40dB Sat Gain, 34dB Terr Gain	40 Sat, 34 Terr	120 Sat, 115 Terr
<b>Remote AC Powered</b>			

\* See official data sheets for testing standards



## TERRA Fibre Transmitters



TERRA Electronics has a complete range of commercial MATV and SMATV fibre transmitters suited for use in MDU, commercial building distribution and FTTH/FTTx applications. TERRA's range of fibre transmitters offers flexibility for your installations with options including 1550nm wavelengths that can be used with EDFA's to expand the subscriber base greatly and a built-in web-based user interface for network management and monitoring. TERRA's transmitters are part of the 400 series headend range, so they fit in and work seamlessly as a complete RF processing and distribution solution.

Product Code	Description	Wavelength	Output (dBm)
<b>1310nm Fibre Transmitters</b>			
20MM-MO418L-4D31-1310	TERRA Single SMATV Optical Transmitter 1310nm 6dBm	1310	6dBm
20MM-MO428L-4D31-1310	TERRA Twin SMATV Optical Transmitter 1310nm 6dBm	1310	2 x 6dBm
<b>1550nm Fibre Transmitters</b>			
20MM-MO418-1555	TERRA Single SMATV Optical Transmitter 1555nm 6dBm	1555	6dBm
20MM-MO418L-4D55-1550	TERRA Single SMATV Optical Transmitter 1550nm 6dBm	1550	6dBm
20MM-MO428L-4D55-1550	TERRA Twin SMATV Optical Transmitter 1555nm 6dBm	1550	2 x 6dBm
<b>EDFA's</b>			
20MM-OAD514	TERRA Modular Fibre Optic Amplifier with 4 x 13dBm output		4 x 13dBm
20MM-OAD518	TERRA Modular Fibre Optic Amplifier with 8 x 10dBm output		8 x 10dBm
<b>Fibre Splitters</b>			
20MM-SO414	TERRA Fibre Splitter 4 Way SC-APC -7dB		
20MM-SO418	TERRA Fibre Splitter 8 Way SC-APC - 10dB		
<b>Power Supplies and Accessories</b>			
14MM-UP413	TERRA Power Supply with Parallel Power Redundancy Capability - 12V 4.5A		
14MM-UP410S	TERRA Power Supply Stand Alone with Built-in RF Combiner - 12V 4.5A		
14MM-MR19-420	TERRA 19" Rack Mount Frame For 400 Series DIN Rail Mount Equipment		
14MM-MR420	1m DIN Rail for Wall Mounting TERRA 400 Series Equipment		
14MM-DC420	TERRA DC Distribution Cable - 4 Connectors		
14MM-DC412	TERRA DC Distribution Cable - 12 Connectors		





## TERRA Fibre Nodes



TERRA Electronics has a complete range of commercial MATV and SMATV fibre nodes suited from small apartments to larger MDU and commercial building applications. TERRA's range of fibre nodes offers flexibility for your installations, including local mains and remote powered options with built-in wide-range gain and slope controls, built-in WDM on selected models and split outputs on the OD009 series.

Product Code	Description	Power Input	Output (dBμV) AGC*
<b>Fibre Nodes MATV</b>			
20MM-OD003	TERRA Fibre Receiver with SC/APC Connector 47-1002MHz	230V AC	80
20MM-OD005P	TERRA Fibre Receiver with SC/APC Connector 47-862MHz	230V AC	106
20MM-OD102	TERRA Fibre Receiver 114dBμV Output with SC/APC Connectors 47-862/1006MHz	230V AC	114
20MM-OD202	TERRA Fibre Receiver 117dBμV Output with SC/APC Connectors 47-862/1006MHz	230V AC	117
<b>Fibre Nodes SMATV</b>			
20MM-OD004	TERRA Fibre Receiver with SC/APC Connector 47-2400MHz	230V AC/10-20V DC	80
20MM-OD007	TERRA Fibre Mini Receiver (FCA) 70dBμV Output 10-20V DC Powering	10-20V DC	70
20MM-OD009	TERRA Fibre Receiver with SC/APC Connector 47-2400MHz	10-20V DC	85
<b>Fibre Nodes SMATV with Built in WDM</b>			
20MM-OD007H	TERRA Mini Fibre Receiver with SC/APC Connectors with WDM 47-2400MHz	10-20V DC	70
20MM-OD009H	TERRA Fibre Receiver with SC/APC connectors with WDM 47-2400MHz	10-20V DC	85

\* See official data sheets for testing standards



## TERRA 3 Wire Fibre



TERRA electronics range of 3 wire fibre transmitter and receiver equipment is well suited for MDU and commercial building distribution and FTTH/FTTx applications. TERRA's range of fibre gear offers flexibility for your installations, including fixed outputs for larger coaxial distribution points or multiswitch outputs from the receivers for direct TV or STB connection. The 3 wire fibre equipment is perfect for expanding your satellite horizontal and vertical polarities plus terrestrial FTA to multiple endpoints without typical RF signal loss and slope issues experienced when working with coaxial cables. With a broad fibre power operating range, splitting up to 64 ways to service multiple endpoints is possible.

Product Code	Description	Wavelength (nm)	Output (dBm)
<b>1310nm Fibre Transmitters 3 Wire</b>			
20MM-OT301	Optical Transmitter Satellite Horizontal, Vertical and 1 x Terrestrial	1310	6dBm
20MM-OT301L	Optical Transmitter Satellite Horizontal, Vertical and 1 x Terrestrial with LAN Control	1310	6dBm
<b>Fibre Receivers 3 Wire</b>			
20MM-OR301	Optical Receiver Satellite Horizontal, Vertical and 1 x Terrestrial		
20MM-OR301M	Optical Receiver 4 x Multiswitch including Terrestrial Outputs		
<b>Power Supplies and Accessories</b>			
14MM-UP413	TERRA Power Supply with Parallel Power Redundancy Capability - 12V 4.5A		
14MM-UP410S	TERRA Power Supply Stand Alone with Built in RF Combiner - 12V 4.5A		
14MM-PS12V1A	Power Supply 12V DC 1 Amp 2.1 x 5.5 x 11mm with 2.5mm Adaptor		
20MM-PS2SCAFCA-1	FC Angled to SC Angled OS2 Patch Cord Duplex - 1m		

## WISI Products



## WISI DAB+ and FM Tuners



WISI DAB+/FM tuners are available in either 4 or 12 tuner units in a 1RU frame with built-in network management and IP switch. The tuners feature 4 or 12 independent inputs capable of FM, DAB and DAB+ reception with the ability to output each service on its own unicast or multicast IP transport stream and an analogue audio channel via a 3.5mm jack for monitoring. The 12DAB-FM and 4DAB-FM receivers are the perfect solutions for getting radio services into your IPTV and DVB network.

- » 4 or 12 x DAB/DAB+ or FM inputs to IP or analogue outputs
- » For operation in SMATV and Cable TV networks
- » IP SPTS output in UDP/RTP
- » Web browser user interface with built in IP switch
- » Line and headphone compatible audio monitor output
- » Can be used with Chameleon or Tangram to create DVBT output for radio insertion to TV systems

Product Code	Description	Input	Output
14MM-4DAB-FM	4 x DAB/DAB+ or FM to IP or Analogue Output	4 x DAB/DAB+ or FM	4 x IP and/or Analogue
14MM-12DAB-FM	12 x DAB/DAB+ or FM to IP or Analogue Output	12 x DAB/DAB+ or FM	12 x IP and/or Analogue



## WISI Headend Splitter and Combiner



WISI 19" rack-mountable headend splitters and combiners are professional solutions for splitting multiple system inputs or combining multiple processed output RF signals before system integration. .

Product Code	Description
<b>Headend Splitters</b>	
14MM-DC28W-4S	WISI Input Splitter, 4 x 7 Port Satellite Splitters in 1RU
<b>Headend Combiners</b>	
14MM-DM17A	12 Input Passive Headend Combiner



## WISI OM Headend



The WISI OM micro-series headend is a compact all in one solution for transmodulation of services from DVB-S/S2 and DVB-T/T2/C to DVB-T/C with inbuilt Conditional Interfaces for decrypting services if required. The OM10-DVB's are the perfect VAST to DVB-T headend solution for remote mining camps and villages or commercial buildings where terrestrial broadcast services are unavailable. The OM series can easily be controlled and configured by its intuitive built-in web-based user interface..

Product Code	Description	Input	Output
<b>Base Units</b>			
14MM-OM10-DVBS	WISI Micro Headend - Transmodulator 6x DVB-S/S2 to 6x DVB-T + 4 CI	DVB-S/S2	DVB-T
14MM-OM11-DVBT	WISI Micro Headend - Transmodulator 6x DVB-T/T2/C to 8x DVB-T/C	DVB-T/T2/C	DVB-T/C



## WISI Chameleon Hardware



The WISI Chameleon headend platform is designed with all current and future applications in mind. It is superbly suited for the transition from the analogue to the digital environment. It has a unique flexibility that allows you to change functionality with the click of a button. The Chameleon product line covers the functionality needs for all types of installations. The Chameleon series also features HDMI and HD/SD-SDI or A/V encoders to suit all of your IPTV or RF requirements. Base units can cater for 2 to 10 modules and are available with or without integrated switches for ease of management. Available in 230VAC, 110VAC and 48VDC with power redundancy options. The hardware functionality can easily be expanded or changed by adding licenses to unlock required features like N+1 redundancy, different types of scrambling and descrambling or SRT reception or broadcast.

Product Code	Description	Input	Output
<b>Base Units</b>			
14MM-GN20B	Chameleon 1HU 2 Module Base Unit with Power Supply Unit and Fan	230V AC	
14MM-GN20R	Chameleon 1HU 2 Module Base Unit with Redundant Power Supply Unit and Fan	230V AC	
14MM-GN40W0230	Chameleon 4HU 10 Module Base Unit with Power Supply and Fan	230V AC	
14MM-GN50W0048	Chameleon 3HU 10 Module Base Unit with Power Supply, Fan and Integrated GigE Switch	48V DC	
14MM-GN50W0110	Chameleon 3HU 10 Module Base Unit with Power Supply, Fan and Integrated GigE Switch	110V AC	
14MM-GN50W0230	Chameleon 3HU 10 Module Base Unit with Power Supply, Fan and Integrated GigE Switch	230V AC	
<b>Processor Modules</b>			
14MM-GNHWUW2	WISI Chameleon Multi Purpose Hardware Module	Universal DVB	Universal DVB, ASI, Analogue, FM, SDI and IP
14MM-GNHWENCW	WISI Chameleon Encoder, 1 x HDMI, 2 x SD-SDI, 1 x HD-SDI or 2 x A/V to IP/ASI	HDMI, HD/SD-SDI and A/V	IP/ASI
14MM-GNHWENC2H	WISI Chameleon Encoder 4 x HDMI to IP/ASI	HDMI	IP/ASI
14MM-GNHWENC2S	WISI Chameleon Encoder 4 x HD/SD-SDI or 4 x A/V to IP/ASI	HD/SD-SDI and A/V	IP/ASI
<b>Power Supplies for Spares or Redundancy</b>			
14MM-GN55W0048	WISI Chameleon Power Supply 48V DC	48V DC	
14MM-GN55W0110	WISI Chameleon Power Supply 110V AC	110V AC	
14MM-GN55W0230	WISI Chameleon Power supply 230VAC	230V AC	

<b>Licenses</b>	
Product Code	Description
14MM-GNCI	License for One CI Slot
14MM-GNCMOD	License for One QAM Output
14MM-GNDASI	License for Dual ASI In/Out BNC 1 & 2
14MM-GNDCI	License for Two CI Slots
14MM-GNDCMOD	License for Two QAM Outputs
14MM-GNDOL	License for Dolby Audio Decoding
14MM-GNDTMD	License for Two COFDM Outputs
14MM-GNDVMD	License for Two VSB Outputs
14MM-GNHSDI	License for HD SDI Decoder On BNC1
14MM-GNOCTFM	License for 8 FM Radio Outputs
14MM-GNSCR	License for Quad Simulcrypt Scrambler
14MM-GNSSDI	License for SD SDI Decoder To BNC1
14MM-GNSTR	License for IP Streaming
14MM-GNSTREC	License for IP Streaming With FEC
14MM-GNSYMUX	License for Umbrella Software for Interconnected Multiplexers
14MM-GNSYSMG	License for System Management
14MM-GNTMOD	License for One COFDM Output
14MM-GNVMD	License for One VSB Output



## WISI Tangram



The WISI Tangram video platform is a high-density digital TV headend unit for IP and RF-based networks. The base unit is highly customisable and offers advanced DVB stream processing in a small footprint 1 RU chassis concept and can fit 6 + 1 modules. The six rear-loaded modules have different functionalities and can perform all necessary signal processing, including descrambling and encrypting services to meet your DRM needs. The Tangram series also features HDMI and HD/SD-SDI or A/V encoders to suit all of your IPTV requirements. Available in 230VAC, 110VAC and 48VDC with power redundancy options. The functionality of the hardware can easily be expanded by the addition of licenses to unlock required features like N+1 Redundancy, different types of scrambling and descrambling or SRT reception or broadcast..

Product Code	Description	Input	Output
<b>Base Units</b>			
14MM-GT01W0048	WISI Tangram Base Unit with Integrated Network Switch and 48V DC Power Supply	48V DC	
14MM-GT01W0110	WISI Tangram Base Unit with Integrated Network Switch and 110V AC Power Supply	110V AC	
14MM-GT01W0230	WISI Tangram Base Unit with Integrated Network Switch and 230V AC Power Supply	230V AC	
<b>Processor Modules</b>			
14MM-GT21W	WISI Tangram Module IP to 6x PAL/SECAM/NTSC	IP	Analogue RF
14MM-GT22C	WISI Tangram IP to FM Card	IP	FM
14MM-GT23W	WISI Tangram IP to QAM Card (12 x DVB-C)	IP	QAM
14MM-GT24W	WISI Tangram IP to 8 x DVB-T Card	IP	DVB-T
14MM-GT31W	WISI Tangram Universal Quad Tuner DVB to IP Card	DVB-T/T2/C DVB-S/S2/S2X ISDB-T	IP
14MM-GT32W	WISI Tangram ASI and IP Card	ASI or IP	ASI or IP
14MM-GT34	WISI Tangram Satellite Tuner Card, up to 16 x DVB-S, S2 or S2X Tuners	DVB-S/S2/S2X	IP
14MM-GT35	WISI Tangram 4 x HDMI to IP Card	HDMI	IP
14MM-GT36	WISI Tangram 4 x HD/SD-SDI or 4 x A/V to IP Card	HD/SD-SDI or A/V	IP
14MM-GT41	WISI Tangram IP Processing Card	IP	IP
14MM-GT42W	WISI Tangram Quad CI (Conditional Interface) Card	IP	IP
		RCA A/V	Analogue RF
<b>Power Supplies for Spares or Redundancy</b>			
14MM-GT55W0048	WISI Tangram Power Supply 48V DC	48V DC	
14MM-GT55W0110	WISI Tangram Power Supply 110V AC	110V AC	
14MM-GT55W0230	WISI Tangram Power supply 230VAC	230V AC	
<b>Accessories</b>			
14MM-GT12W	WISI Tangram Switch Extension Board with 4 SFP Slots		

<b>Licenses</b>		
Product Code	Description	Applies to
14MM-GTAES	Software Option for AES Scrambler	GT31W, GT33, GT41
14MM-GTAESX	Software Option for AES Scrambler	GT31W, GT33, GT41
14MM-GTASE	Software Option for Basic Transport Stream Monitoring and INCA ASE Integration	GT2x, GT3x and GT4x modules
14MM-GTBISS	Software Option for BISS Descrambler 8 Service	GT31W, GT41
14MM-GTBTs	Software Option for MTS+SAP (BTSC) Audio Modulation for PAL-M and NTSC	GT21W
14MM-GTCASRED	Software Option for CAS Input Redundancy	GT11, GT01W0230, GT23W, GT41
14MM-GTDOL	Software Option for Dolby Digital Audio Decoding	GT21
14MM-GTDT2MIDE	T2-MI De-encapsulation - Dual including 4 PLP's	GT31W, GT41
14MM-GTFEC	Software Option for IP Streaming with FEC Error Correction or Protection	GT21, GT22C, GT23W, GT24W, GT26, GT31W, GT32W, GT33, GT41, GT42W
14MM-GTLYNK	Software Option for Samsung LYNK Scrambler	GT41
14MM-GTLYNKX	Software Option for Samsung LYNK Scrambler	GT41
14MM-GTM1	Software Option for additional 1 year SUA Extension	ALL HARDWARE
14MM-GTM3	Software Option for additional 3 year SUA Extension	ALL HARDWARE



## WISI OH Headend



The WISI OH modular series headend is a compact solution with up to 14 module slots, offering channel processing for up to 14 analogue or 28 digital channels in a 3 HU 19" rack chassis. The OH series caters for analogue and digital inputs, supporting transmodulation of services from DVB-S/S2 to DVB-C/T with inbuilt conditional interfaces for decrypting services if required. The OH series can be controlled and configured by its built-in web-based user interface or a pluggable hand controller (OH41).

Product Code	Description	Input	Output
<b>Base Units</b>			
14MM-OH40A	7 Card Headend Base Unit for OH Series including Web UI - Wall Mount	230V AC	
14MM-OH50A	14 Card Headend Base Unit for OH Series including Web UI - Rack Mount 3HU	230V AC	
<b>Processor Modules</b>			
14MM-OH38	WISI OH Twin Modulator A/V to Analogue	Analogue A/V	Analogue RF
14MM-OH45	Wisi OH RF Converter/Processor	Analogue RF, DVB-T	Analogue RF, DVB-T
14MM-OH85H	WISI OH Twin Transmodulator DVB-S/S2 to QAM	DVB-S/S2	QAM
14MM-OH88	WISI OH Twin Transmodulator DVB-S/S2 to DVB-T	DVB-S/S2	DVB-T
14MM-OH89	WISI OH Transmodulator Twin DVB-T/T2/C to DVB-T	DVB-T/T2/C	DVB-T
<b>Accessories</b>			
14MM-OH41	WISI Handheld Programmer for OH series and VX/LR series		





## WISI MATV Amplifiers and Fibre Nodes



WISI MATV distribution amplifiers and fibre nodes are commercial-grade components suited from small apartments to larger MDUs, commercial building and mining applications. WISI's range of amplifiers offers flexibility for your installations, including active return path, local mains, and remote powered options. In addition, WISI has a range of DOCSIS 3.1 compliant products and have optional pluggable diplexers, and taps for ultimate flexibility in your network builds. The amplifiers and fibre nodes are typically IP66 rated, allowing use in outdoor pedestals and other harsh environments. Many new models feature Bluetooth connectivity for simple wireless control and testing. .

Product Code	Description	Gain (dB)	Max Output (dBμV)*
<b>Locally Powered MATV RF</b>			
14MM-VX26H	WISI 230V Amplifier 85-1006MHz 41dB Gain plus Return Path 5-65MHz	41	114
<b>Remote AC Powered MATV RF</b>			
14MM-VX29B	WISI 27-90V AC Remote Powered Amplifier 108-1218MHz 42dB Gain	42	113
<b>Locally Powered MATV Fibre Nodes</b>			
20MM-LR222001	WISI 230V Fibre Optic Receiver High Output 109dBμV - 85-1218MHz		109
20MM-LR272612	WISI 230V Fibre Optic Receiver High Output 109dBμV - 85-1218MHz		109
<b>Remote AC Powered MATV Fibre Nodes</b>			
20MM-LR276612	WISI 27-65V AC Remote Powered Fibre Optic Receiver - 85-1218MHz		109
<b>Inverted Nodes - DOCSIS 3.0/3.1 Compliant</b>			
20MM-LR44L4102	WISI DOCSIS 3.1 Inverted Node 4 Port LC-APC - 230VAC		
20MM-LR44L8102	WISI DOCSIS 3.1 Inverted Node 8 Port LC-APC - 230VAC		
<b>Accessories</b>			
<b>Pluggable Taps and Splitters</b>			
14MM-XM25B0044	WISI Pluggable 4/4dB Output Splitter for VX26H, LR2x Series		
14MM-XM25B0082	WISI Pluggable 8/2dB Output Tap for VX26H, LR2x Series		
14MM-XM25B0131	WISI Pluggable 13/1dB Output Tap for VX26H, LR2x Series		
14MM-XM51B	WISI Pluggable 4/4dB Output Splitter for VX29B, VX5xB Series		
14MM-XM53B	WISI Pluggable 8/2dB Output Tap for VX29B, VX5xB Series		
14MM-XM55B	WISI Pluggable 13/1dB Output Tap for VX29B, VX5xB Series		
14MM-XM56B	WISI Pluggable 18/1dB Output Tap for VX29B, VX5xB Series		
<b>Pluggable Diplexer Filters</b>			
14MM-XE50B0650	WISI Diplexer Filter 65/85MHZ for VX5xB and LR2x Series		
14MM-XE50B0850	WISI Diplexer Filter 85/108MHZ for VX5xB and LR2x Series		
14MM-XE50B2040	WISI Diplexer Filter 204/258MHZ for VX5xB and LR2x Series		
<b>Adaptors and Accessories</b>			
14MM-XE29	WISI Cabling Kit For External Power Insertion for 14MM-VX29B and VX53B		
14MM-LB01	WISI Bluetooth Antenna for Compatible VXxx and LRxx Series		
14MM-ZG01	WISI 5/8" to PG11 Adaptor		
14MM-ZG28	WISI PG11 to F Type Adaptor		

\* See official data sheets for testing standards

## Matchmaster Fibre Transmitters



### Fibre Transmitter 1550nm 1RU 45-2600MHz with Dual Power Supplies

- » Wide band 45-2600MHz +6dBm optical transmitter - 1RU 19" rack mountable
- » Perfect for use with single band satellite or SMS plus FTA/TDT to transmit across a single SMOF to multiple end receivers
- » SNMP monitoring and configuration via RS232 or RJ45 communications ports
- » Built in power redundancy for those critical sites
- » Front LCD panel with control keys for setup, status display and fault diagnosis
- » Wide input power range with AGC control for signal stability
- » Available in multiple configurations below

Product Code	Output (dBm)
20MM-LT06L	+6dBm
20MM-LT10L	+10dBm

## Fibre EDFA's



20MM-FA series 1550nm EDFAs are used in CATV and SMATV 1550nm optical fibre transmission systems. The FA series EDFAs are available from as little as a single output right up to 64 output versions and are available in a standard series of output powers or can be customised to suit your network needs. The full range of EDFA is also available with inbuilt WDM if required. Each EDFA has an adjustable output level in 0.1dB steps with up to 4dB control. The FA series comes standard with dual wide-range power supplies for power redundancy and features a built-in WEB UI for network management plus SNMP for monitoring.

Product Code	Description	Power Input (dBm)	Output (dBm)
<b>Common Model EDFA</b>			
20MM-OAD514	TERRA 4 Port 13dBm EDFA with Built-in Web UI	-3 to +10	4x13
20MM-OAD518	TERRA 8 Port 10dBm EDFA with Built-in Web UI	-3 to +10	8x10
20MM-FA4-14	4 Port 14dBm EDFA with Built-in Web B UI, SNMP and Dual Power Supplies	-5 to +10	4x14
20MM-FA8-14	8 Port 14dBm EDFA with Built-in Web UI, SNMP and Dual Power Supplies	-5 to +10	8x14
20MM-FA16-14	16 Port 14dBm EDFA with Built-in Web UI, SNMP and Dual Power Supplies	-5 to +10	16x14
20MM-FA4-17	4 Port 17dBm EDFA with Built-in Web UI, SNMP and Dual Power Supplies	-5 to +10	4x17
20MM-FA8-17	8 Port 17dBm EDFA with Built-in Web UI, SNMP and Dual Power Supplies	-5 to +10	8x17
20MM-FA16-17	16 Port 17dBm EDFA with Built-in Web UI, SNMP and Dual Power Supplies	-5 to +10	16x17
<b>Common Model EDFA with Built In WDM</b>			
20MM-FA4-14W	4 Port 14dBm EDFA with Built-in WDM, Web UI, SNMP and Dual Power Supplies	-5 to +10	4x14
20MM-FA8-14W	8 Port 14dBm EDFA with Built-in WDM, Web UI, SNMP and Dual Power Supplies	-5 to +10	8x14
20MM-FA16-14W	16 Port 14dBm EDFA with Built-in WDM, Web UI, SNMP and Dual Power Supplies	-5 to +10	16x14
20MM-FA4-17W	4 Port 17dBm EDFA with Built-in WDM, Web UI, SNMP and Dual Power Supplies	-5 to +10	4x17
20MM-FA8-17W	8 Port 17dBm EDFA with Built-in WDM, Web UI, SNMP and Dual Power Supplies	-5 to +10	8x17
20MM-FA16-17W	16 Port 17dBm EDFA with Built-in WDM, Web UI, SNMP and Dual Power Supplies	-5 to +10	16x17

\* Additional models available upon request

## Accessories



**Multi-service Professional CAM for Decryption of VAST Services in Commercial Systems**

### 13MM-VAST-MULTICAM

- » Decode multiple VAST services - up to 10 TV or radio
- » VAST to COFDM headend solutions for remote sites, mine camps etc
- » Combine without WISI or TERRA headends for optimal performance
- » Decrypt services across multiple transport streams



*For the Best*



# Matchmaster for the Best TV Reception Products.

You may also need a  
**03MM-DC21V**  
See page 9

# Networking and Data

Product Catalogue



## Routers



**5 Port Managed PoE Router, 4x Gigabit PoE+,  
Up to 2 WAN Load Balanced, 54W**

**57MM-MG01**

**Ruijie**

- » Auto-provisioning via self-organizing network: MG01 uses the industry-leading auto-discovery and auto-networking features for gateways, switches and wireless APs
- » Multiple WAN ports: Up to 2 WAN ports are supported
- » Free cloud management for monitoring and setup with simple operation and maintenance on the Ruijie Cloud app
- » PoE/PoE+ IEEE 802.3af/at, 54W max. output
- » Supports IP/MAC/MAC filtering with independent VLANs for guests isolated from the internal office/hotel network
- » IPSec VPN: Up to 8 branches



**10 Port Managed PoE Router, 8x Gigabit PoE+,  
Up to 4 WAN Load Balanced, 70W**

**57MM-MG02**

**Ruijie**

- » Auto-provisioning via self-organizing network: MG02 uses the industry-leading auto-discovery and auto-networking features for gateways, switches and wireless APs
- » Multiple WAN ports: Up to 4 WAN ports are supported
- » Free cloud management for monitoring and setup with simple operation and maintenance on the Ruijie Cloud app
- » PoE/PoE+ IEEE 802.3af/at, 70W max. output
- » Supports IP/MAC/MAC filtering with independent VLANs for guests isolated from the internal office/hotel network.
- » IPSec VPN: Up to 8 branches



**Wi-Fi 6 Whole Home Mesh Router/Repeater  
AX1800**

**Ruijie**

- » Immerse yourself in the perfect blend of aesthetics and functionality with our state-of-the-art Wi-Fi 6 meshing router/repeater. Experience seamless high-performance connectivity and enjoy reliable wireless coverage throughout your entire home.
- » Wi-Fi 6 (802.11ax) supporting speeds up to 1775 Mbps (Concurrent, high-speed wireless access of 574Mbps at 2.4GHz and 1201Mbps at 5Ghz)
- » Simple plug and play using the free Ruijie cloud application on PC, Android or iOS.
- » MR01 features 1 x WAN and 2 x LAN Gigabit ethernet ports.
- » Perfect for use in homes and small office/commercial spaces where cabling is impossible.
- » Smart signal indicator, find the best spot to place a sub-router
- » Available in multiple configurations below

Product Code	Pack
57MM-MR01	1
57MM-MR01-2	2





## Wi-Fi 6 Whole Home Mesh Router/Repeater AX3200

**Ruijie**

- » Immerse yourself in the perfect blend of aesthetics and functionality with our state-of-the-art Wi-Fi 6 meshing router/repeater. Experience seamless high-performance connectivity and enjoy reliable wireless coverage throughout your entire home.
- » Wi-Fi 6 (802.11ax) supporting speeds up to 3202 Mbps (Concurrent, high-speed wireless access of 800Mbps at 2.4GHz and 1402Mbps at 5Ghz)
- » Simple plug and play using the free Ruijie cloud application on PC, Android or iOS.
- » MR02 features 1 x WAN and 3 x LAN Gigabit ethernet ports per unit, four dual-band antennas, and eight signal amplifiers, providing large-area Wi-Fi coverage.
- » Perfect for use in homes and small office/commercial spaces where cabling is impossible.
- » Smart signal indicator, find the best spot to place a sub-router
- » Available in multiple configurations below

Product Code	Pack
57MM-MR02	1
57MM-MR02-2	2



## 7 Port 1 Gbps Unified Security Gateway PoE+ Router, Up to 2 WAN Load Balanced, 135W 57MM-SG01

**Ruijie**

- » All-in-one smart access gateway, 8 GE ports (up to 2 WAN and 6 LAN ports), up to 7x POE/POE+ (Lifetime free L7 DPI signature update), rack mount kit included, recommended for 300 concurrent user scenarios
- » Multiple WAN ports: Up to 2 WAN ports are supported
- » Free cloud management for monitoring and setup with simple operation and maintenance on the Ruijie Cloud app
- » PoE/PoE+ IEEE 802.3af/at, 135W maximum output
- » Supports IP/MAC/MAC/URL filtering with independent VLANs for guests isolated from the internal office/hotel network.
- » VPN and traffic visualization



## 1.2 Gbps Wi-Fi Mesh Router Dual-band 802.11ac Wave 2 (100Mbps Uplink) 57MM-WR01

**Ruijie**

- » Dual-band 802.11ac Wave 2 support speeds up to 1167 Mbps (100Mbps Uplink)
- » MESH technology for seamless roaming between units
- » Simple setup and network management at your fingertips with the Reyee Router app
- » 4x4 MU-MIMO with four high-performance 5dBi omnidirectional antennas
- » Perfect for connecting smart home Wi-Fi devices to the internet with built-in flexible parental controls
- » 1x WAN, 3x LAN (RJ45 10/100Base-T)



## 1.8 Gbps Wi-Fi 6 Mesh Gigabit Router Dual-band 802.11ax 57MM-WR02

**Ruijie**

- » Wi-Fi 6 dual-band 802.11ax supporting speeds up to 1800 Mbps and up to 192 simultaneous users
- » MESH technology for seamless roaming between units
- » Simple setup and network management at your fingertips with the Reyee Router app
- » 4T4R MU-MIMO allows the high-speed transmission to multiple devices simultaneously
- » Perfect for connecting smart home and office Wi-Fi devices to the internet with built-in flexible parental controls.
- » 1x WAN 4x LAN (RJ45 10/100/1000Mbps)

# Networking and Data



## 3.2 Gbps Ultra High-Speed Wi-Fi 6 Mesh Gigabit Router Dual-band 802.11ax

**Ruijie**

### 57MM-WR03

- » Wi-Fi 6 dual-band 802.11ax supporting speeds up to 3200 Mbps and up to 192 simultaneous users
- » MESH technology for seamless roaming between units
- » Simple setup and network management at your fingertips with the Reyee Router app
- » Eight antennas with eight signal amplifiers provide powerful ultra high-speed whole-home, building network coverage
- » Perfect for connecting home, office and public area smart Wi-Fi devices to the internet with built-in flexible parental controls
- » 1x WAN, 4x LAN (RJ45 10/100/1000Mbps)



## 1.3 Gbps Wi-Fi 5 Mesh Gigabit Router Dual-band 802.11ac Wave 2

**Ruijie**

### 57MM-WR04

- » Dual-band 802.11ac (Wi-Fi 5) Wave 2 support speeds up to 1267 Mbps
- » MESH technology for seamless roaming between units
- » Simple setup, parental control and network management at your fingertips with the Reyee Router app
- » One 10/100/1000 Base-T WAN port, three 10/100/1000 Base-T LAN ports
- » Dual-band integration and the MU-MIMO technology offer low interference and fast-speed internet to up to 64 terminals simultaneously (recommended users 32).
- » The operating mode can also be set as a Wi-Fi repeater, meaning any Wi-Fi network can be received and transmitted.

## Wireless Bridges



## 10dBi 1km Wireless Network Bridge

**Ruijie**

### 57MM-WB01

- » 5GHz single-band dual-stream chip with transmit power  $\leq 250\text{mW}$
- » One-click setup and management via the free cloud app
- » PTMP supported bridging (Example: one recorder, multiple cameras)
- » High durability: IP54 rating provides dust, water and heat protection for outdoor environments
- » Power supply redundancy support (12V and 24V)
- » Can be wall or pole mounted



## 15dBi 5km Wireless Network Bridge

**Ruijie**

### 57MM-WB02

- » 5GHz single-band dual-stream chip with 867Mbps wireless transmit rate up to 5km range
- » One-click setup and management via the free cloud app
- » PTMP supported bridging (Example: one recorder, multiple cameras)
- » High durability: IP54 rating provides dust, water and heat protection for outdoor environments
- » Power supply redundancy support (12V and 24V)
- » Can be wall or pole mounted



## **8dBi 500m Wireless Network Bridge, Dual 10/100 LAN Ports** **57MM-WB03**

**Ruijie**

- » Featuring 2 x 10/100 RJ45 ports for direct-to-device connection for access points or cameras.
- » 2.4GHz single-band dual-stream chip with transmit power ≤100 mW (20 dBm) (adjustable)
- » PTMP supported bridging (i.e. one master to multiple slaves)
- » IP55 Weatherproof, -30~60°C for guaranteed stable operation in outdoor or elevator environments, etc.
- » Power via 12 VDC power supply or 12 VDC passive PoE
- » One-click set-up and management via the free cloud app.)
- » Can be wall or pole mounted

## Wi-Fi Access Points



### **Wi-Fi Access Point AC1300 802.11ac Dual-bands 1.3 Gbps (100Mbps Uplink)** **57MM-AP01**

**Ruijie**

- » Dual-band 802.11ac wave2 1.3 Gbps (100 Mbps uplink)
- » Supports concurrent 802.11ac wave2, wave1, 802.11a/b/g/n protocols
- » Free lifetime Ruijie cloud management: Remote fault alarm, one-click optimisation and maintenance on the Ruijie cloud app.
- » Featuring 2x LAN interfaces to provide support to more devices and services.
- » Perfect for connecting home smart Wi-Fi devices to the internet
- » Seamless layer three roaming



### **Wi-Fi Access Point AC1300 802.11ac Dual-bands 1.3 Gbps** **57MM-AP02**

**Ruijie**

- » Dual-band 802.11ac wave2 1.3 Gbps with high-speed uplink
- » Supports concurrent 802.11ac wave2, wave1, 802.11a/b/g/n protocols
- » Free lifetime Ruijie cloud management: Remote fault alarm, one-click optimisation and maintenance on the Ruijie cloud app.
- » Featuring 2x LAN interfaces to provide support to more devices and services.
- » Perfect for connecting home smart Wi-Fi devices to the internet
- » Seamless layer three roaming



### **Wi-Fi 6 Access Point AX1800 802.11ax Dual-bands 1.8 Gbps** **57MM-AP03**

**Ruijie**

- » Wi-Fi 6 (802.11ax) supports speeds up to 1775 Mbps (Concurrent, high-speed wireless access of 574Mbps at 2.4GHz and 1201Mbps at 5Ghz)
- » Supports concurrent 802.11ac wave2, wave1, 802.11a/b/g/n protocols
- » Free lifetime Ruijie cloud management: Remote fault alarm, one-click optimisation and maintenance on the Ruijie cloud app.
- » Featuring 2 x LAN interfaces to provide support to more devices and services.
- » Perfect for use in commercial spaces, hotels, car parks, schools, etc.
- » Up to 512 simultaneous users (per access point)

# Networking and Data



## **Wi-Fi 6 Access Point AX3200 802.11ax Dual-bands Ultra-High Speed 3.2 Gbps 57MM-AP05**

**Ruijie**

- » Wi-Fi 6 (802.11ax) supporting speeds up to 3202 Mbps (Concurrent, high-speed wireless access of 800Mbps at 2.4GHz and 2402Mbps at 5Ghz)
- » Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols
- » Free lifetime Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on the Ruijie Cloud app
- » AP05 features 2x LAN with one of the ethernet ports upgraded to a multi-gigabit ethernet (2.5GE) port to break through the bottleneck of transmission performance.
- » Perfect for use in commercial spaces, hotels, car parks, schools etc
- » Up to 512 simultaneous users per access point



## **Wi-Fi 6 Outdoor Omnidirectional Access Point AX1800 802.11ax Dual-bands 1.8 Gbps 57MM-AP06**

**Ruijie**

- » Outdoor high-range Wi-Fi-6 (802.11ax) supporting speeds up to 1775 Mbps (Concurrent, high-speed wireless access of 574Mbps at 2.4GHz and 1201Mbps at 5Ghz)
- » Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols
- » Free lifetime Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on the Ruijie Cloud app.
- » Featuring maximum Wi-Fi coverage range of 100m for 2.4GHz and 300m for 5GHz
- » Perfect for use in outdoor settings like caravan parks, villas, town centres, sports grounds and parks etc
- » Up to 256 simultaneous users per access point



## **Wi-Fi 6 Outdoor Ceiling/Wall Access Point AX1800 802.11ax Dual-bands 1.8 Gbps 57MM-AP07**

**Ruijie**

- » Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols
- » Free lifetime Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on the Ruijie Cloud app.
- » Featuring 1x gigabit ethernet port, 1x gigabit SFP port
- » Perfect for use in outdoor settings like sports stadiums, parks, car parks, schools, sports grounds, etc.
- » Up to 512 simultaneous users per access point



## **Wi-Fi 5 Access Point AC1300 802.11ac Dual-bands 1.3Gbps (100Mbps Uplink), 1 x GbE LAN, Wall Mount 57MM-AP08**

**Ruijie**

- » Dual-band 802.11ac wave2 1.3 Gbps (100 Mbps uplink)
- » Supports concurrent 802.11ac wave2, wave1, 802.11a/b/g/n protocols
- » Free lifetime Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on the Ruijie Cloud app.
- » Wall mount AP features a 1 x LAN interface to support connected devices and services. AP08 can fasten directly to wall cut-out without any installation brackets.
- » Perfect for use in commercial spaces, hotels, car parks, schools etc
- » Up to 110 simultaneous users (per AP)



**Wi-Fi 5 Access Point AC1300 802.11ac  
Dual-bands 1.3Gbps, 4 x GbE LAN,  
Wall Mount (Bracket Sold Separately)  
57MM-AP09**

**Ruijie**

- » Wi-Fi 5 (802.11ac) supporting speeds up to 1267 Mbps (Concurrent, high-speed wireless access of 400Mbps at 2.4GHz and 867Mbps at 5Ghz)
- » Supports concurrent 802.11ac wave2, wave1, 802.11a/b/g/n protocols
- » Free lifetime Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on the Ruijie Cloud app.
- » Wall mount AP featuring 4 x LAN interfaces to support more devices and services. (Wall mount sold separately, 57MM-AP09-MNT)
- » Perfect for use in commercial spaces, hotels, car parks, schools etc
- » Up to 110 simultaneous users (per AP)



**Wi-Fi 6 Access Point AX3000 802.11ax  
Dual Bands 2.97 Gbps  
57MM-AP10**

**Ruijie**

- » WiFi-6 (802.11ax) supporting speeds up to 2976 Mbps (Concurrent, high-speed wireless access of 574Mbps at 2.4GHz and 2402Mbps at 5Ghz)
- » Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols
- » Lifetime free Ruijie Cloud management: Remote fault alarm, one-click optimising and maintenance on the Ruijie Cloud app.
- » Featuring 2 x LAN with one of the ethernet ports upgraded to a multi-gigabit Ethernet (2.5GE) port to break through the bottleneck of transmission performance.
- » Perfect for use in commercial spaces, hotels, car parks, schools etc
- » Up to 512 simultaneous users (per AP)



**Wi-Fi 6 Access Point AX6000 802.11ax  
Dual Bands 5.95 Gbps  
57MM-AP11**

**Ruijie**

- » WiFi-6 (802.11ax) supporting speeds up to 5952 Mbps (Concurrent, high-speed wireless access of 1148Mbps at 2.4GHz and 4804Mbps at 5Ghz)
- » Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols
- » Lifetime free Ruijie Cloud management: Remote fault alarm, one-click optimising and maintenance on Ruijie Cloud App.
- » Featuring 2 x LAN ethernet ports supporting multi-gigabit Ethernet (2.5GE) ports to break through the bottleneck of transmission performance.
- » Perfect for use in commercial spaces, hotels, car parks, schools, etc.
- » Up to 512 simultaneous users (per AP)



**Wi-Fi 6 Outdoor Omnidirectional Access Point  
AX3000 802.11ax Dual Bands 2.97 Gbps with  
SFP Fibre Port  
57MM-AP12**

**Ruijie**

- » Outdoor high-range Wi-Fi 6 (802.11ax) supporting speeds up to 2976 Mbps (Concurrent, high-speed wireless access of 574Mbps at 2.4GHz and 2402Mbps at 5Ghz)
- » Built-in gigabit SFP port supporting up to 20km transmission from datacentre over single-mode fibre for long-range deployment.
- » Lifetime free Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on Ruijie Cloud app.
- » Featuring maximum Wi-Fi coverage range of 100m for 2.4GHz and 300m for 5GHz
- » Perfect for use in outdoor settings like caravan parks, villas, town centres, sports grounds and parks etc
- » Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols

# Networking and Data



**Wi-Fi 6 Access Point AX3000 802.11ax  
Dual Bands 2.97Gbps  
57MM-AP13**

**Ruijie**

- » New aesthetically pleasing circular design with simple rotation attachment making for simple installation.
- » WiFi-6 (802.11ax) supporting speeds up to 2976 Mbps (Concurrent, high-speed wireless access of 574Mbps at 2.4GHz and 2402Mbps at 5Ghz, compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols.
- » Lifetime free Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on Ruijie Cloud app.
- » Connection via 1 x 10/100/1000 Base-T port or simply by Reyee Mesh
- » Perfect for use in homes, commercial spaces, hotels, car parks, schools, etc.
- » Up to 512 simultaneous users (per AP)



**Wi-Fi 6 Access Point AX3000 802.11ax  
Dual Bands 2.97Gbps  
57MM-AP14**

**Ruijie**

- » Gigabit Wi-Fi 6 wall-plated style access point featuring an 8.5mm slim profile for discrete installations.
- » WiFi-6 (802.11ax) supporting speeds up to 2976 Mbps (Concurrent, high-speed wireless access of 574Mbps at 2.4GHz and 2402Mbps at 5Ghz, compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols
- » Lifetime free Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on Ruijie Cloud App.
- » Connection via 1 x 10/100/1000 Base-T port or simply by Reyee Mesh
- » Perfect for homes, commercial spaces, hotels, schools, etc.
- » Up to 512 simultaneous users (per AP)



**Wi-Fi 6 Outdoor Omnidirectional Access Point  
AX3000 802.11ax Dual Bands 2.97Gbps With S  
FP Fibre Port  
57MM-AP15**

**Ruijie**

- » Outdoor high-range WiFi-6 (802.11ax) supporting speeds up to 2976 Mbps (Concurrent high-speed wireless access of 574Mbps at 2.4GHz and 2402Mbps at 5Ghz)
- » Built-in gigabit SFP port supporting up to 20km transmission from the data centre over single-mode fibre for long-range deployment.
- » Lifetime free Ruijie Cloud management: Remote fault alarm, one-click optimizing and maintenance on Ruijie Cloud App.
- » The AP15 supports WEP (64/128 bits), WPA-TKIP, WPA-PSK, WPA2-AES, WPA3 authentication and encryption methods, and PPSK and UPSK technologies.
- » IP68 rated and operating temperature of 65°C makes the AP15 perfect for use in outdoor settings like mining camps, caravan parks, villas, town centres, sports grounds, parks, etc
- » Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols





## Wi-Fi 5 Outdoor Omnidirectional Access Point AC1300 802.11ac Dual Bands 1267 Mbps 57MM-AP16

**Ruijie**

- » Compact outdoor high-range WiFi-5 (802.11ac) supporting speeds up to 1267 Mbps (Concurrent high-speed wireless access of 400 Mbps at 2.4GHz and 867 Mbps at 5GHz)
- » IP65 rated for outdoor use, it can be mounted to wall surfaces with a supplied bracket or pole-mounted for flexible installation.
- » Lifetime free Ruijie Cloud management: Remote fault alarm, one-click optimising and maintenance on Ruijie Cloud App.
- » Featuring maximum Wi-Fi coverage range of 300m+ for 2.4GHz and 400m+ for 5GHz
- » Perfect for use in outdoor settings like caravan parks, villas, town centres, sports grounds, parks, etc
- » Detachable antennas with standard SMA interface so you can optimise signal as needed.

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## PoE Managed Switches



### 5 Port Gigabit Managed Network Switch (4 Port PoE, 1 Uplink)

**Ruijie**

#### 57MM-SW05P

- » Five port managed network switch with four PoE+ ports
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely.
- » Offers a 54W PoE budget and up to 30W per PoE port
- » Supports port status display, port traffic statistics and PoE port output power status
- » Supports port duplex/negotiation rate configuration and flow control configuration
- » Supports PoE output on/off L2 features: Support port mirroring, loop protection and cable detection



### Gigabit Managed Network Switch 6 port (4 Port PoE, 2 Uplink)

**Ruijie**

#### 57MM-SW06P

- » 6 port managed network switch with 2 uplink ports and 4 ports PoE+
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely.
- » Offers a 54W PoE budget and up to 30W per PoE port
- » Port status display, port traffic statistics and PoE port output power status
- » Port duplex/negotiation rate configuration and flow control configuration
- » PoE output on/off L2 features: Support port mirroring, loop protection and cable detection



## 9 Port Gigabit Managed Network Switch (8 Port PoE, 1 Uplink)

**57MM-SW09P**

**Ruijie**

- » Nine port managed network switch with eight PoE+ ports
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely.
- » Offers a 120W PoE budget and up to 30W per PoE port.
- » Supports port status display, port traffic statistics and PoE port output power status
- » Supports port duplex/negotiation rate configuration and flow control configuration
- » Supports PoE output on/off L2 features: Support port mirroring, loop protection and cable detection



## 10 Port Gigabit Managed Network Switch (8 Port PoE, 2 x SFP)

**57MM-SW10P**

**Ruijie**

- » Ten port managed network switch with eight PoE+ ports
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely.
- » Offers a 125W PoE budget and up to 30W per PoE port.
- » Supports port status display, port traffic statistics and PoE port output power status
- » Supports port duplex/negotiation rate configuration and flow control configuration
- » Supports PoE output on/off L2 features: Support port mirroring, loop protection and cable detection



## 18 Port Gigabit Managed Network Switch (16 Port PoE, 2 SFP)

**57MM-SW18P**

**Ruijie**

- » 18 port managed network switch with 16 ports PoE+ and 2 SFP ports supporting up to 36Gbps switching capacity
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely.
- » Offers a 240W PoE budget and up to 30W per PoE port.
- » Supports port status display, port traffic statistics and PoE port output power status
- » Supports port duplex/negotiation rate configuration and flow control configuration
- » Supports PoE output on/off L2 features: Support port mirroring, loop protection and cable detection



## 26 Port Gigabit Managed Network Switch (24 Port PoE, 2 SFP)

**57MM-SW26P**

**Ruijie**

- » 26 port managed network switch with 24 ports PoE+ and 2 SFP ports supporting up to 52Gbps switching capacity
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely.
- » Offers a 370W PoE budget and up to 30W per PoE port.
- » Supports port status display, port traffic statistics and PoE port output power status
- » Supports port duplex/negotiation rate configuration and flow control configuration
- » Supports PoE output on/off L2 features: Support port mirroring, loop protection and cable detection



**52 Port Gigabit Managed Network Switch  
(48 Port PoE, 4 SFP)**

**57MM-SW52P**

**Ruijie**

- » 52 port managed network switch with 48 ports PoE+ and 4 SFP ports supporting up to 104Gbps switching capacity
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely
- » Offers a 370W PoE budget and up to 30W per PoE port
- » Supports port status display, port traffic statistics and PoE port output power status
- » Supports port duplex/negotiation rate configuration and flow control configuration
- » Supports PoE output on/off L2 features: Support port mirroring, loop protection and cable detection

## Non-PoE Managed Switches



**16 Port Gigabit Managed Network Switch**

**57MM-SW16**

**Ruijie**

- » 16-port managed gigabit network switch supporting up to 32 Gbps switching capacity
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely.
- » Built-in power supply with <12W consumption
- » Security features supporting broadcast storm suppression, port speed limit, port isolation and DHCP snooping.
- » Supports port duplex/negotiation rate configuration and flow control configuration
- » L2 features: Support port mirroring, loop protection and cable detection



**24 Port Gigabit Managed Network Switch**

**57MM-SW24**

**Ruijie**

- » 24-port managed gigabit network switch supporting up to 48Gbps switching capacity
- » The free cloud service supports smart networking features, allowing users to auto-provision, deploy and manage devices remotely.
- » Built-in power supply with <14W consumption
- » Security features supporting broadcast storm suppression, port speed limit, port isolation and DHCP snooping.
- » Supports port duplex/negotiation rate configuration and flow control configuration
- » L2 features: Support port mirroring, loop protection and cable detection

## Unmanaged Switches



**5 Port Gigabit Unmanaged Network Switch**

**57MM-SW05**

**Ruijie**

- » 5-port unmanaged gigabit network switch supporting up to 10 Gbps switching capacity
- » Supports self-adaptive ports and plug-and-play feature with zero configuration.
- » Supplied with 5V DC power supply with ≤5W power consumption
- » All metal casing allows for better heat dissipation
- » Perfect for connecting smart home devices to the internet
- » Simple DIY plug-and-play technology



## 8 Port Gigabit Unmanaged Network Switch 57MM-SW08

**Ruijie**

- » 8-port unmanaged gigabit network switch supporting up to 16 Gbps switching capacity
- » Supports self-adaptive ports and plug-and-play feature with zero configuration.
- » Supplied with 5V DC power supply with  $\leq 5W$  power consumption
- » All metal casing allows for better heat dissipation
- » Perfect for connecting smart home devices to the internet
- » Simple DIY plug-and-play technology

## Accessories



## Universal Wall Mount Kit for 57MM-AP09 57MM-AP09-MNT

**Ruijie**

- » Universal wall mount kit for 57MM-AP09
- » Used to mount the 57MM-AP09 to any wall or enclosure surface
- » It comes as a single pack containing 1 unit



## 30W Gigabit PoE+ Power Inserter 57MM-APPI

**Ruijie**

- » PoE+ power inserter delivering up to 30 Watts of power
- » IEEE 802.3at compliant with 2-event classification
- » Safe for low-power devices delivers only the energy they need
- » Supports 10/100/1000 Base-T applications
- » APPI can be used to power many PoE devices, Wi-Fi access points, IP cameras, etc.
- » Automatic detection and protection of non-standard ethernet terminals



## 31.2W Gigabit PoE+ Power Inserter 57MM-APPI-30

**Ruijie**

- » PoE+ power inserter delivering up to 31.2 Watts of power
- » IEEE 802.3at compliant with GbE ports supporting high-speed data transfer.
- » Safe for low-power devices, it delivers only the power they need.
- » 2 x RJ45 Gigabit 10/100/1000 Mbps Ports
- » It can power many PoE devices, WiFi access points, IP PTZ cameras, etc.
- » Automatic detection and protection of non-standard Ethernet terminals



## 60W 2.5 Gigabit PoE++ Power Inserter 57MM-APPI-60

**Ruijie**

- » PoE++ (Type 3) power inserter delivering up to 60 Watts of power
- » IEEE 802.3 bt compliant with 2.5 Gbps ports supporting ultra high-speed data transfer.
- » Safe for low-power devices, it delivers only the energy they need.
- » 2 x RJ45 MultiGigabit 10/100/1000/2500Mbps Ports
- » It can power many PoE devices, WiFi access points, IP PTZ cameras, etc.
- » Automatic detection and protection of non-standard Ethernet terminals

# Security

Product Catalogue



## Kits



### Wi-Fi Security 8CH NVR Kit with 2TB HDD, 4x 2MP Bullet

#### 50MM-KB002

- » +200M line of sight Wi-Fi range
- » Kit includes four Wi-Fi bullet cameras with 1080p high definition resolution and 3.6mm fixed lenses providing detailed snapshots and crisp video
- » Quick and easy setup with universal plug and play cameras
- » Cameras weather-resistant rated to IP66 for indoor and outdoor use
- » Receive notifications and save snapshots and video clips to your smart phone, tablet and desktop
- » IR night vision to capture video up to 30M to protect your property 24 hours a day



### PoE Security Kit with 8CH 2TB AI NVR and 4 Bullet Cameras

#### 50MM-KB003

- » Kit includes one 4K 8 channel PoE NVR with 2TB HDD installed, four 5MP HD bullet AI cameras and four 18m CAT cables pre-terminated for plug and play.
- » Supports AI detection modes: human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting and crowd density monitoring.
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » 2pcs array IR led with IR distance of 20-30m
- » Supports IPv4, IPv6, P2P, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, PPPoE, SMTP, SSL, TLS protocols and ONVIF 17.12 (Profile S, Profile T) compatible for simple communication and mobile viewing
- » Supports H.265/H.264 video compression



### 2MP HD Dome IP Wi-Fi Camera IP66 3.6mm Fixed Lens

#### 50MM-KD001

- » Kit includes four PoE dome cameras with 5MP high definition resolution and 3.6mm fixed lenses providing detailed snapshots and crisp video
- » Quick and easy setup with universal plug and play cameras
- » Cameras weather-resistant rated to IP65 for indoor and outdoor use
- » Receive notifications and save snapshots and video clips to your smart phone, tablet and desktop
- » IR night vision to capture video up to 35M to protect your property 24 hours a day
- » The PoE NVR comes with 2TB onboard storage with FTP support for off site backup. Save your video clips or snapshots on local external storage with two USB ports on NVR



### Wi-Fi Security 8CH NVR Kit with 2TB HDD, 4x 2MP Dome

#### 50MM-KD002

- » +200M line of sight Wi-Fi range
- » Kit includes four Wi-Fi dome cameras with 1080p high definition resolution and 3.6mm fixed lenses providing detailed snapshots and crisp video
- » Quick and easy setup with universal plug and play cameras
- » Cameras weather-resistant rated to IP65 for indoor and outdoor use
- » Receive notifications and save snapshots and video clips to your smart phone, tablet and desktop
- » The Wi-Fi NVR comes with 2TB onboard storage. Save your video clips or snapshots on local external storage with two USB ports on NVR
- » IR night vision to capture video up to 25M to protect your property 24 hours a day







## PoE Security Kit with 8CH 2TB AI NVR and 4 Dome Cameras 50MM-KD003

- » Kit includes one 4K 8 channel PoE NVR with 2TB HDD installed, four 5MP HD dome AI cameras and four 18m CAT cables pre-terminated for plug and play.
- » Supports AI detection modes: human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting and crowd density monitoring.
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » 18pcs SMD IR LED with IR distance of 20-30m
- » Supports IPv4, IPv6, P2P, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, PPPoE, SMTP, SSL, TLS protocols and ONVIF 17.12 (Profile S, Profile T) compatible for simple communication and mobile viewing
- » Supports H.265/H.264 video compression



## PoE Security Kit with 8CH 2TB AI NVR, 2 Dome and 2 Bullet Cameras 50MM-KDB01

- » Kit includes one 4K 8 channel PoE NVR with 2TB HDD installed, two dome 5MP HD AI cameras, two bullet 5MP HD AI cameras and four 18m CAT cables pre-terminated for plug and play.
- » Supports AI detection modes: human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting, and crowd density monitoring.
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » IR led with an IR distance of 20-30m
- » Supports IPv4, IPv6, P2P, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, PPPoE, SMTP, SSL, TLS protocols and ONVIF 17.12 (Profile S, Profile T) compatible for simple communication and mobile viewing
- » Supports H.265/H.264 video compression



## Wi-Fi Security 9CH NVR Kit with 2TB HDD, 2x 2MP Bullet 50MM-KWB01

- » Plug and play, P2P service with 2TB HDD installed for local recording
- » 1920x1080 @ 1-15fps (default resolution:1920x1080 / frame rate: 15fps / bit rate: 1Mbps)
- » Cameras weather-resistant rated to IP66 for indoor and outdoor use
- » IR night vision to capture video up to 25M to protect your property 24 hours a day
- » Receive notifications and save snapshots and video clips to your smart phone, tablet and desktop
- » Supplied with 2x Wi-Fi Bullet cameras, additional cameras sold separately - 50MM-CWB01 and 50MM-CWD01, supporting up to 9 cameras maximum



## Wi-Fi Cameras



### 2MP HD Bullet IP Wi-Fi Camera IP66 3.6mm Fixed Lens 50MM-CB002

- » Full HD resolution 1920 x 1080P @ 15fps with ultra low illumination 0.01lux, 0 lux with IR on
- » Fixed 3.6mm lens with a 1/2.7" progressive scan sensor
- » 5pcs IR array LEDs with IR distance of 20-30m
- » Supports H.265/H.264, H.265+ video compression standards



### 3MP Pan/Tilt/Zoom IP (Wi-Fi) High Definition Bullet Camera with 2.8-12mm Autofocus Lens 50MM-CB004

- » Pan/tilt range: pan 0-180°, tilt 0.5-55° with 4x optical zoom
- » Main stream: 3MP/2MP@15fps. Sub stream: 640x480, 640x360, CIF@15fps
- » Autofocus 2.8mm to 12mm lens with a 1/2.7" progressive scan sensor
- » 6pcs SMD IR LEDs with IR distance up to 30m
- » Minimum illumination of 0.01Lux @ F1.2 (AGC ON), 0Lux IR on
- » Supports H.264/H.265/H.265+ video compression standards



### 2MP IK10 Rated HD Dome IP Wi-Fi Camera IP66 3.6mm Fixed Lens 50MM-CDO02

- » Full HD resolution 1920 x 1080P @ 15fps with ultra low illumination 0.01lux, 0 lux with IR on
- » IK10 vandal proof rated housing
- » Fixed 3.6mm lens with a 1/2.7" progressive scan sensor
- » 18pcs SMD IR Led with IR distance of 20-25m
- » Supports H.265/H.264, H.265+ video compression standards



### 2MP HD Bullet IP Wi-Fi Camera IP66 3.6mm Fixed Lens 50MM-CWB01

- » Fixed 3.6mm lens with a 1/2.7" full HD CMOS progressive scan sensor
- » 1920\*1080@1-15fps (default resolution:1920\*1080/frame rate:15fps/bit rate:1Mbps)
- » Cameras weather-resistant rated to IP66 for indoor and outdoor use
- » IR night vision to capture video up to 25M to protect your property 24 hours a day
- » Saturation/brightness/contrast /sharpness, mirror, white balance, FLK (flicker control)
- » Can be added to any 50MM-NWxx-x Matchmaster series Wi-Fi NVR's



**1080p**



## 2MP HD Dome IP Wi-Fi Camera IP66 3.6mm Fixed Lens 50MM-CWD01

- » Fixed 3.6mm lens with a 1/2.7" full HD CMOS progressive scan sensor
- » 1920\*1080@1-15fps (default resolution:1920\*1080/frame rate:15fps/bit rate:1Mbps)
- » Cameras weather-resistant rated to IP66 for indoor and outdoor use
- » IR night vision to capture video up to 20M to protect your property 24 hours a day
- » Saturation/brightness/contrast /sharpness, mirror, white balance, FLK(flicker control)
- » Can be added to any 50MM-NWxx-x Matchmaster series Wi-Fi NVR's

**1080p**

## PoE Cameras



### 5MP HD Bullet IP PoE Camera IP66 3.6MM Fixed Lens 50MM-CB001

- » ONVIF 17.06 compatible for simple communication and mobile viewing
- » 5MP resolution 2592 x 1944 at 15 frames per second or 4MP at 25 frames per second
- » Fixed 3.6mm lens with a 1/2.8" Sony IMX335 low light CMOS sensor
- » 12pcs SMD IR led with IR distance of 20m
- » Supports RTSP/FTP/DHCP/DDNS/NTP/SMTP/NFS protocols
- » Supports H.265/H.264 video standards



### 5MP Pan/Tilt/Zoom IP (POE) Full High Definition Bullet Camera with 2.8-12mm Autofocus Lens 50MM-CB003

- » Pan/tilt range: pan: 0-180°; tilt: 0-55° with 4x optical zoom
- » 5MP resolution 2592x1944 at 25 frames per second or 4MP at 25 frames per second
- » Autofocus 2.8mm to 12mm lens with a 1/2.8" Sony IMX335 low light CMOS sensor
- » 6pcs array IR led with IR distance of 30m
- » Supports RTSP/FTP/DHCP/DDNS/NTP/SMTP/NFS protocols and ONVIF 17.06 compatible for simple communication and mobile viewing
- » Supports H.265/H.264 video standards



### 5MP AI HD Bullet IP PoE Camera IP67 3.6MM Fixed Lens 50MM-CB005

- » 5MP HD bullet camera supporting resolutions up to 2880x1620 @ 25fps with smart encoding
- » Supports AI detection modes: human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting, and crowd density monitoring.
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » 2pcs array IR led with IR distance of 20-30m
- » Supports IPv4, IPv6, P2P, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, UPnP, HTTP, HTTPS, PPPoE, SMTP, SSL, TLS protocols and ONVIF 17.12 (Profile S, Profile T) compatible for simple communication and mobile viewing
- » Supports H.265/H.264 video compressions



## **8MP AI HD Bullet IP PoE Camera IP67 3.6MM Fixed Lens 50MM-CB006**

- » 8MP ultra HD bullet camera supporting resolutions up to 3840x2160@20fps smart encoding
- » Supports AI detection modes: human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting, and crowd density monitoring.
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » 2pcs array IR led with IR distance of 20-30m
- » Supports IPv4, IPv6, P2P, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, PPPoE, SMTP, SSL, TLS protocols, ONVIF 17.12 (Profile S, Profile T) and SDK compatible
- » Supports H.265/H.264 smart encoding



## **5MP HD Dome IP PoE Camera IP65 3.6mm Fixed Lens 50MM-CD001**

- » ONVIF 17.06 compatible for simple communication and mobile viewing
- » 5MP resolution 2592 x 1944 at 15 frames per second or 4MP at 25 frames per second
- » Fixed 3.6mm lens with a 1/2.8" Sony IMX335 low light CMOS sensor
- » 3pcs 28μ array IR led, IR distance 30-35m
- » Supports RTSP/FTP/DHCP/DDNS/NTP/SMTP/NFS protocols
- » Supports H.265/H.264 video standards



## **5MP HD Dome IP PoE Camera IP66 3.6mm Fixed Lens IK10 Vandal Rated 50MM-CD003**

- » ONVIF 17.06 compatible for simple communication and mobile viewing
- » 5MP resolution 2592 x 1944 at 15 frames per second or 4MP at 25 frames per second
- » Fixed 3.6mm lens with a 1/2.8" Sony IMX335 low light CMOS sensor
- » 10 array IR LEDs allowing 10-15m IR range
- » Supports RTSP/FTP/DHCP/DDNS/NTP/SMTP/NFS protocols
- » Supports H.265/H.264 video standards



## **5MP HD Dome IP PoE Camera IP66 2.8-12mm Varifocal Lens IK10 Vandal Rated 50MM-CD005**

- » ONVIF 17.06 compatible for simple communication and mobile viewing
- » 5MP resolution 2592x1944 at 15 frames per second or 4MP at 25 frames per second
- » Varifocal 2.8mm to 12mm with a 1/2.8" Sony IMX335 low light CMOS sensor
- » 24 array IR LEDs allowing 30-40m IR range
- » Supports RTSP/FTP/DHCP/DDNS/NTP/SMTP/NFS protocols
- » Supports H.265/H.264 video standards



## 8MP AI HD Speed Dome PTZ IP PoE Camera IP66 4.7-94mm Lens with 20X Optical Zoom

### 50MM-CD007

- » 8MP Ultra HD PTZ dome camera supporting resolutions up to 3840x2160@20fps Smart encoding
- » Supports AI detection modes: human detection, vehicle detection with auto tracking and preset patrol modes.
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » 10pcs IR LED array with IR distance up to 120m
- » Supports HTTP/RTSP/FTP/SMTP/DHCP/NTP/NFS/RTMP protocols and is ONVIF 17.06 compatible
- » Supports H.265/H.264/MJPEG video encoding and G.711-u/G.711-a/AAC audio standards



## 5MP AI HD Dome IP PoE Camera IP67 3.6mm Fixed Lens

### 50MM-CD008

- » 5MP HD Dome camera supporting resolutions up to 2880x1620 @ 25fps with smart encoding
- » Supports AI detection modes: human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting, and crowd density monitoring.
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » 18pcs SMD IR LED with IR distance of 20-30m
- » Supports IPv4, IPv6, P2P, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, PPPoE, SMTP, SSL, TLS protocols and ONVIF 17.12 (Profile S, Profile T) compatible for simple communication and mobile viewing
- » Supports H.265/H.264 video compression



## 8MP AI Ultra HD Dome IP PoE Camera IP67 3.6mm Fixed Lens

### 50MM-CD009

- » 8MP ultra HD dome camera supporting resolutions up to 3840x2160@20fps smart encoding
- » Supports AI detection modes: human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting, and crowd density monitoring
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » 18pcs SMD IR LED with IR distance of 20-30m
- » Supports IPv4, IPv6, P2P, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, PPPoE, SMTP, SSL, TLS protocols, ONVIF 17.12 (Profile S, Profile T) and SDK compatible
- » Supports H.265/H.264 smart encoding

## PTZ Cameras



### 5MP Pan/Tilt/Zoom IP (POE) Full High Definition Bullet Camera with 2.8-12mm Autofocus Lens

#### 50MM-CB003

- » Pan/tilt range: pan: 0-180°; tilt: 0-55° with 4x optical zoom
- » 5MP resolution 2592x1944 at 25 frames per second or 4MP at 25 frames per second
- » Autofocus 2.8mm to 12mm lens with a 1/2.8" Sony IMX335 low light CMOS sensor
- » 6pcs array IR led with IR distance of 30m
- » Supports RTSP/FTP/DHCP/DDNS/NTP/SMTP/NFS protocols and ONVIF 17.06 compatible for simple communication and mobile viewing
- » Supports H.265/H.264 video standards



### 3MP Pan/Tilt/Zoom IP (Wi-Fi) High Definition Bullet Camera with 2.8-12mm Autofocus Lens

#### 50MM-CB004

- » Pan/tilt range: pan 0-180°, tilt 0.5-55° with 4x optical zoom
- » Main stream: 3MP/2MP@15fps. Sub stream: 640x480, 640x360, CIF@15fps
- » Autofocus 2.8mm to 12mm lens with a 1/2.7" progressive scan sensor
- » 6pcs SMD IR LEDs with IR distance up to 30m
- » Minimum illumination of 0.01Lux @ F1.2 (AGC ON), 0Lux IR on
- » Supports H.264/H.265/H.265+ video compression standards



### 8MP AI HD Speed Dome PTZ IP PoE Camera IP66 4.7-94mm Lens with 20X Optical Zoom

#### 50MM-CD007

- » 8MP Ultra HD PTZ dome camera supporting resolutions up to 3840x2160@20fps Smart encoding
- » Supports AI detection modes: human detection, vehicle detection with auto tracking and preset patrol modes.
- » Easy-to-use P2P cloud service with multi-web browser support, PC client and mobile application remote access
- » 10pcs IR LED array with IR distance up to 120m
- » Supports HTTP/RTSP/FTP/SMTP/DHCP/NTP/NFS/RTMP protocols and is ONVIF 17.06 compatible
- » Supports H.265/H.264/MJPEG video encoding and G.711-u/G.711-a/AAC audio standards

## NVR's



### Professional 8 Channel NVR with Integrated 8 Port PoE Switch

#### 50MM-NVR08

- » 8 Channel professional NVR with supporting up to 6MP cameras and H.265S, H.265+, H.265 and H.264 compression technology
- » Built-in 8-port PoE switch
- » Supports 8 CH 6MP, 5MP, 4MP, 3MP, 1080P, 1280 x 1024, 960P, 720P, 960H, D1 and CIF IP input
- » Supports incoming and outgoing bandwidth up to 40Mbps
- » Support PTZ pre-set and auto cruise, up to 255 pre-sets and eight cruises
- » Remote control via web client or CMS: Preview, playback, backup, PTZ and configuration





## Professional 8 Channel 4K AI NVR with Integrated 8 Port PoE Switch

### 50MM-NVR08-4K

- » 8 Channel 4K PoE NVR supporting AI functions and up to 8MP camera recording
- » Supports AI intelligent detection modes, human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting, and crowd density monitoring when used with compatible cameras like CB005, CB006, CD008 and CD009.
- » Easy-to-use P2P cloud service, PC client and mobile application remote access
- » Third-party IP cameras supported with ONVIF conformance: Profile S, Profile G, Profile T
- » Provides the ability to record at a maximum resolution of 8MP for exceptional detail.
- » Supports Ultra 265, H.265 and H.264 video formats



## Professional 16 Channel 4K AI NVR with Integrated 16 Port PoE Switch

### 50MM-NVR16

- » 16 channel 4K PoE NVR supporting AI functions and up to 8MP camera recording
- » Supports AI detection modes: human detection, vehicle detection, cross line, enter area, leave area, intrusion, people flow counting, and crowd density monitoring when used with compatible cameras like CD008, CD009, CB005 and CB006.
- » Easy-to-use P2P cloud service, PC client and mobile application remote access
- » Third-party IP cameras supported with ONVIF conformance: Profile S, Profile G, Profile T
- » Enables the capture of ultimate details with support for recording resolutions of up to 8MP
- » Supports Ultra 265/H.265/H.264 video formats



## Professional 32 Channel 4K AI NVR with Integrated 16 Port PoE Switch

### 50MM-NVR32

- » 32 Channel Professional NVR with 4K HD video and H.265S/H.265+/H.265/H.264 compression technology
- » Built-in 16 port PoE switch
- » Supports multiple VCA (Video Content Analytics) events: Object abandoned/missing, region intrusion, tripwire, video tampering, etc.
- » Supports incoming and outgoing bandwidth up to 256Mbps
- » Support PTZ preset and auto cruise, up to 255 presets and eight cruises
- » Remote control via web client or CMS: preview, playback, backup, PTZ and configuration



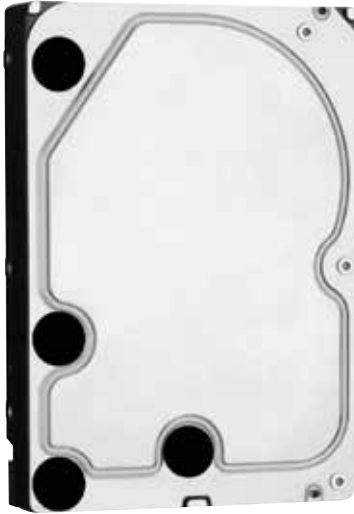
## 9 Channel Wi-Fi NVR 2MP

### 50MM-NW09-1

- » 9 channel recording Wi-Fi NVR supporting up to 5MP Cameras
- » 1 SATA hard disk interface (2.5"/3.5" SATA) supporting up to 8TB HDD (HDD sold separately)
- » Supports H.264/H.265/H.264+/H.265+ video compression standards
- » Support ONVIF version 2.4 and web browsers IE8-11, Google Chrome (lower than Ver44), Firefox (lower than Ver53)
- » Supports manual/timer/motion detection/smart alarm recording modes with search functions for all recording types
- » Works with all Matchmaster 50MM-CWxxx camera range



## HDD's



### Surveillance Internal Hard Drive - 64MB Cache SATA 6Gb/s 3.5"

- » The industry's first surveillance-optimised hard drive precision-tuned for high write surveillance workloads operating 24x7
- » Video storage solutionS. Up to 17 days of 24hr recording for 4 x 5MP cameras at 20 frames per second using H.265 compression
- » Engineered for workloads of 180TB/year, three times that of desktop drives
- » Low power consumption and start-up current to minimise heat and vibration emission, improving long-term drive reliability
- » Tarnish-resistant components to help protect the drive from environmental elements, increasing field reliability
- » Best-in-class acoustic performance means virtually silent operation
- » Available in multiple configurations below

Product Code	Storage
50MM-A003	2TB
50MM-A004	4TB
50MM-A005	6TB
50MM-A006	8TB

## Accessories



### LAN (PoE) Patch Cable

- » LAN CCTV patch cable
- » Moulded RJ45 connectors
- » Suitable for POE CCTV cameras
- » Available in multiple configurations below

Product Code	Length
50MM-A007	18m
50MM-A008	30m

## Brackets



### Standoff Mount for 50MM-CD001 and 50MM-CD003 LAN Dome Cameras

#### 50MM-A009

- » Strong UV protected plastic
- » Offers more flexible mounting positions
- » Provides cavity for cables and terminations
- » Provides cable and connection security
- » Suitable for offices, homes and sheds
- » Everything supplied for easy installation



## Vertical Surface Standoff Mount for 50MM-CD001 LAN Dome Camera

### 50MM-A010

- » Strong UV protected plastic
- » Offers more flexible mounting positions
- » Provides cavity for cables and terminations
- » Provides cable and connection security
- » Suitable for offices, homes and sheds
- » Everything supplied for easy installation



## Junction Box Mount for 50MM-CB001 and 50MM-CB002 LAN Bullet Cameras

### 50MM-A011

- » Strong UV protected plastic
- » Offers more flexible mounting positions
- » Provides cavity for cables and terminations
- » Provides cable and connection security
- » Suitable for offices, homes and sheds
- » Everything supplied for easy installation



## Junction Box Mount for 50MM-CB003 LAN PTZ Bullet Camera

### 50MM-A012

- » Strong UV protected plastic
- » Offers more flexible mounting positions
- » Provides cavity for cables and terminations
- » Provides cable and connection security
- » Suitable for offices, homes and sheds
- » Everything supplied for easy installation

## Power Supplies



## AC/DC Adaptor 12V DC 1A

### 50MM-A001

- » Input: 100-240VAC 50/60Hz
- » 12 Volt DC 1000mA output switch mode power supply
- » Suited for Matchmaster's PoE and Wi-Fi CCTV camera's
- » Meets MEPS requirements
- » Double insulated



*For the Best*



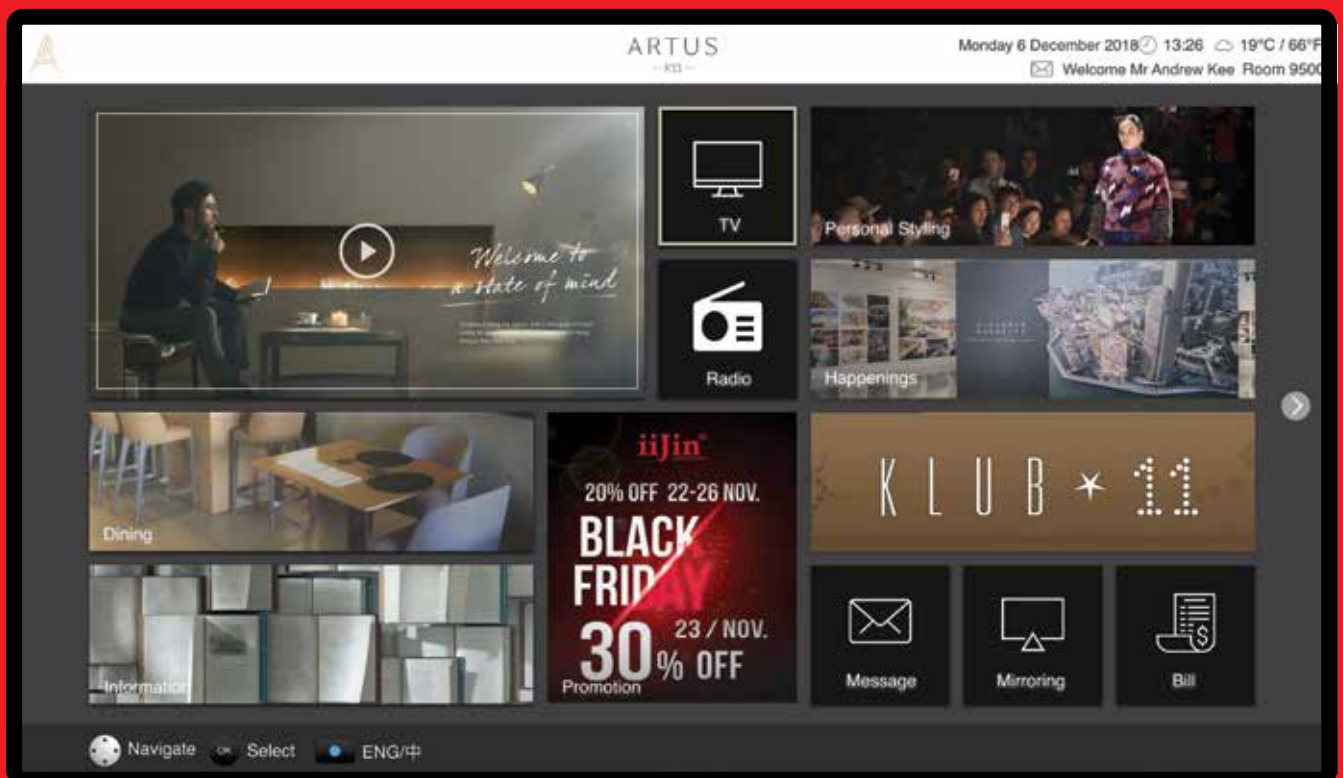
## As Discreet as the Tawny Frogmouth Owl

You may also need a  
**11MM-TRIPOD-MAU**  
See page 85



# IPTV

## Product Catalogue





Matchmaster's IPTV solutions suit many applications, from advanced systems for hotel groups to specialist health and aged care solutions to simple network integration for commercial operations. Our IPTV solutions support Verimatrix encryption for DRM (Digital Rights Management), support casting for Chromecast and AirPlay and can be delivered using managed STBs or direct to smart TVs compatible with our smart app software.

## Fully Flexible Solutions to fit any Requirement

- » Fully tailored solution with a unique User Interface design
- » A basic off-the-shelf solution for quick deployment
- » Casting-only solution/add on to an existing system
- » Fully integrated with all major PMS, POS and workflow management systems - Approved by all major hotel groups

## Headend, SetBack or Cloud-based Chromecast and AirPlay

- » Guests can mirror or stream videos from their own devices to the in-room TV
- » No in-room equipment for headend or cloud deployment
- » Using the hotel's Wi-Fi SSID, no need for the guest to switch
- » Preventing guests from linking personal content to Chromecast
- » MDM-managed Apple TV
- » Cost-effective, scalable & easy to manage web-based Content Management System (CMS)

## Web-Based Content Management System (CMS)

- » Web-based
- » Easy to navigate
- » Extensive reporting capabilities
- » Multi-property view and reporting

## Ask Us About IPTV

For more information email us using the form below or contact your local Matchmaster office toll free on 1800 237 425





# Technical Reference



## Australian Channel Plan Reference

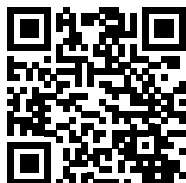
Channel Number	TV Channel Block	Centre Frequency (MHz)	Bandwidth	Frequency Range (MHz)	Allocation
6	A	177.5	7	174-181	FTA TV
7	A	184.5	7	181-188	FTA TV
8	A	191.5	7	188-195	FTA TV
9	A	198.5	7	195-202	DAB/DAB+ Radio
9a	A	205.5	7	202-209	DAB/DAB+ Radio
10	A	212.5	7	209-216	FTA TV
11	A	219.5	7	216-223	FTA TV
12	A	226.5	7	223-230	FTA TV
28	B	529.5	7	526-533	FTA TV
29	B	536.5	7	533-540	FTA TV
30	B	543.5	7	540-547	FTA TV
31	B	550.5	7	547-554	FTA TV
32	B	557.5	7	554-561	FTA TV
33	B	564.5	7	561-568	FTA TV
34	C	571.5	7	568-575	FTA TV
35	C	578.5	7	575-582	FTA TV
36	C	585.5	7	582-589	FTA TV
37	C	592.5	7	589-596	FTA TV
38	C	599.5	7	596-603	FTA TV
39	C	606.5	7	603-610	FTA TV
40	D	613.5	7	610-617	FTA TV
41	D	620.5	7	617-624	FTA TV
42	D	627.5	7	624-631	FTA TV
43	D	634.5	7	631-638	FTA TV
44	D	641.5	7	638-645	FTA TV
45	D	648.5	7	645-652	FTA TV
46	E	655.5	7	652-659	FTA TV
47	E	662.5	7	659-666	FTA TV
48	E	669.5	7	666-673	FTA TV
49	E	676.5	7	673-680	FTA TV
50	E	683.5	7	680-687	FTA TV
51	E	690.5	7	687-694	FTA TV
52	Out of Band	697.5	7	694-701	4G/5G Cellular
53	Out of Band	704.5	7	701-708	4G/5G Cellular
54	Out of Band	711.5	7	708-715	4G/5G Cellular
55	Out of Band	718.5	7	715-722	4G/5G Cellular
56	Out of Band	725.5	7	722-729	4G/5G Cellular
57	Out of Band	732.5	7	729-736	4G/5G Cellular
58	Out of Band	739.5	7	736-743	4G/5G Cellular
59	Out of Band	746.5	7	743-750	4G/5G Cellular
60	Out of Band	753.5	7	750-757	4G/5G Cellular
61	Out of Band	760.5	7	757-764	4G/5G Cellular
62	Out of Band	767.5	7	764-771	4G/5G Cellular
63	Out of Band	774.5	7	771-778	4G/5G Cellular
64	Out of Band	781.5	7	778-785	4G/5G Cellular
65	Out of Band	788.5	7	785-792	4G/5G Cellular
66	Out of Band	795.5	7	792-799	4G/5G Cellular
67	Out of Band	802.5	7	799-806	4G/5G Cellular
68	Out of Band	809.5	7	806-813	4G/5G Cellular
69	Out of Band	816.5	7	813-820	4G/5G Cellular

## dB Conversion Table

Microvolts (µV)				Millivolts (mV)				112.2	101	41	-8
Voltage	dBµV	dBmV	dBm	Voltage	dBµV	dBmV	dBm	125.9	102	42	-7
10.00	20	-40	-89	1.0	60	0	-49	141.3	103	43	-6
11.22	21	-39	-88	1.12	61	1	-48	158.5	104	44	-5
12.59	22	-38	-87	1.26	62	2	-47	177.9	105	45	-4
14.13	23	-37	-86	1.41	63	3	-46	199.5	106	46	-3
15.85	24	-36	-85	1.59	64	4	-45	223.9	107	47	-2
17.78	25	-35	-84	1.78	65	5	-44	251.2	108	48	-1
19.95	26	-34	-83	2.00	66	6	-43	281.8	109	49	0
22.39	27	-33	-82	2.24	67	7	-42	316.2	110	50	1
25.12	28	-32	-81	2.51	68	8	-41	354.8	111	51	2
28.18	29	-31	-80	2.82	69	9	-40	398.1	112	52	3
31.62	30	-30	-79	3.16	70	10	-39	446.7	113	53	4
35.48	31	-29	-78	3.55	71	11	-38	501.2	114	54	5
39.81	32	-28	-77	3.98	72	12	-37	562.3	115	55	6
44.67	33	-27	-76	4.47	73	13	-36	631.0	116	56	7
50.12	34	-26	-75	5.01	74	14	-35	707.9	117	57	8
56.23	35	-25	-74	5.62	75	15	-34	794.3	118	58	9
63.10	36	-24	-73	6.31	76	16	-33	891.3	119	59	10
70.79	37	-23	-72	7.08	77	17	-32				
79.43	38	-22	-71	7.94	78	18	-31	Volts (V)			
89.13	39	-21	-70	8.93	79	19	-30	Voltage	dBµV	dBmV	dBm
100.00	40	-20	-69	10.00	80	20	-29	1.00	120	60	11
112.2	41	-19	-68	11.22	81	21	-28	1.12	121	61	12
125.9	42	-18	-67	12.59	82	22	-27	1.26	122	62	13
141.3	43	-17	-66	14.13	83	23	-26	1.41	123	63	14
158.5	44	-16	-65	15.85	84	24	-25	1.59	124	64	15
177.8	45	-15	-64	17.78	85	25	-24	1.78	125	65	16
199.5	46	-14	-63	19.95	86	26	-23	2.00	126	66	17
223.9	47	-13	-62	22.39	87	27	-22	2.24	127	67	18
251.2	48	-12	-61	25.12	88	28	-21	2.51	128	68	19
281.8	49	-11	-60	28.18	89	29	-20	2.82	129	69	20
316.2	50	-10	-59	31.62	90	30	-19	3.16	130	70	21
354.8	51	-9	-58	35.48	91	31	-18	3.55	131	71	22
398.1	52	-8	-57	39.81	92	32	-17	3.98	132	72	23
446.7	53	-7	-56	44.67	93	33	-16	4.47	133	73	24
501.2	54	-6	-55	50.12	94	34	-15	5.01	134	74	25
562.3	55	-5	-54	56.23	95	35	-14	5.62	135	75	26
631.0	56	-4	-53	63.10	96	36	-13	6.31	136	76	27
707.9	57	-3	-52	70.79	97	37	-12	7.08	137	77	28
794.3	58	-2	-51	79.43	98	38	-11	7.94	138	78	29
891.3	59	-1	-50	89.13	99	39	-10	8.91	139	79	30
1000.00	60	0	-49	100.0	100	40	-9	10.0	140	80	31

# Matchmaster Website

matchmaster.com.au



## Latest Products



**56MM-CFBK-1**  
Car/F1 Q11 Building Kit with High Gain UFLA



**04MM-OP01**  
Recessed 4 Way DipCOTD wall Plate with 70cm Blank base



**56MM-CFG4**  
Isolable Phased Dipole Receptor for Terrestrial, Optical or Satellite S/S, 40/50 (Stationary)



**10MM-MA30PDF**  
Mounted Amplifier VHF/UHF 30dB w/RF 40/50 Filter and Power Supply 17A 60MHz



**34MM-HDMX24**  
Av High Speed HDMI 2x4 Matrix Switcher



**56MM-FL50-10A**  
50cm Flatpanel Local LL LMA408 4.2-10 Plug to SMA Plug



**04MM-TB02X**  
22-5V 40W 17A Iso Genet Economical Dual Arm TV Bracket



**11MM-TRIP00-MSS**  
1.2m Tripod Mount for Mono Stereo Business Box with Black Powder Coating (3 Pack)

## Product Categories



Input TV Antenna



Coaxial Cable



Connectors and Fittings



Amplifiers and Modulators



Pillars and Stands



Satellite and Teles



Reception Hardware



Screens



Cable and Plug-in Radio



HDMI



AV Cable and Accessories



Switch Cable



RF



Fittings



Wall Mount



Antenna Products



Structures



Signal



TV Brackets



Screens



Set Top Boxes



Multimedia Systems



Power Supplies



Test Equipment



Reception Equipment



Video Cables



Security



WiFi



WiFi Channels

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## MatchPlan Pro

Design a Focall, SMS, 5 wire, 10T, 10TFA system today

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## Antenna Selection Guide

A easy step by step guide to reception

[Get a Demo](#)

Matchmaster – Proudly Australian,  
with Over 80 Years of Industry  
Experience

Matchmaster is the premier supplier and manufacturer of digital TV antenna systems for domestic and digital TV commercial applications.

Matchmaster products range from digital TV antennas to complex distribution systems, including fibre optics, TV over CATV and IP TV into the future.

Matchmaster specialises in commercial distribution systems with design and engineering capabilities to suit every possible application. Matchmaster also provides technical support, is an endorsed supplier and is recognised for delivering the best industry training program of its type.



Matchmaster Brands and Partner Suppliers





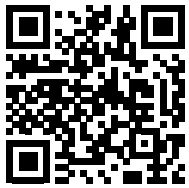
# Antenna Selection Guide

[matchmaster.tv](http://matchmaster.tv)



# MatchPlan Pro Design Tool

[matchplanpro.com](https://matchplanpro.com)





## Videos

### Instruction Video Categories

[Digital TV Antennas](#)

[Amplifiers and Modulators](#)

[Connectors and Tools](#)

[Recessed Enclosures](#)

[Splitters and Taps](#)

[TV Brackets](#)

[IR](#)

### Knowledge Centre Categories

[Product Insight](#)

[Project Design Software](#)

[Manufacturing Facility](#)

### Latest Videos



**18MM-DB6F**  
Instruction Video



**08MM-F11-COM**  
Instructions Video



**18MM-FS11F**  
Instruction Video



**05MM-WP66**  
Installation Video



**04MM-TB08**  
Setup Guide Video



**04MM-TB14**  
Setup Guide Video



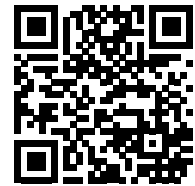
**34MM-IRKIT**  
IR Extender Kit Accessory  
Demonstration Video

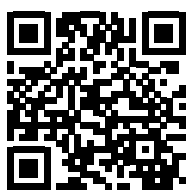


**34MM-IRKIT**  
IR Extender Kit Demonstration Video

## Matchmaster Videos

[matchmaster.com.au/videos](https://matchmaster.com.au/videos)





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and all specifications are correct at  
time of printing