

12 Way RF Distribution Amplifier Over CAT5e/6/6A Cable with RF and Fibre Optic Input

14MM-RF-NET12



The RF-NET12 is a 12-way RF distribution amplifier designed to deliver Free-to-Air TV signals over existing CAT5e, CAT6 and CAT6A cabling where installing new coaxial cable is impractical or cost-prohibitive. Featuring built-in attenuation controls on each output, the RF-NET12 allows signal optimisation for varying cable lengths up to 90m. An integrated optical input provides compatibility with both traditional RF and optical distribution networks for added installation flexibility. Supplied complete with 12 end-of-line RF baluns (RJ45 plug to F-Type female adaptors) for fast and easy connection to TVs and RF equipment.

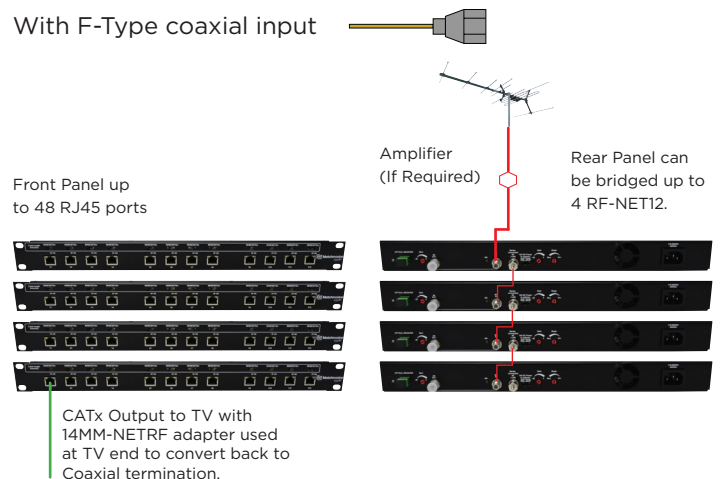
Features and Benefits

- » Distributes Free-to-Air TV signals to up to 12 locations over existing CAT5e, CAT6 and CAT6A cabling, reducing the need for new coaxial installations.
- » Built-in attenuation controls on every output optimise signal levels for varying cable lengths up to 90m.
- » Supports both RF and optical distribution networks with an integrated optical input for flexible system integration.
- » Wide 86–694 MHz frequency range supports reliable DVB-T signal distribution across structured cabling networks.
- » 19" rack mountable design provides a professional and space-efficient solution for commercial and MATV installations.
- » Supplied with 12 RF baluns (RJ45 to F-Type Female adaptors) for fast and convenient installation.

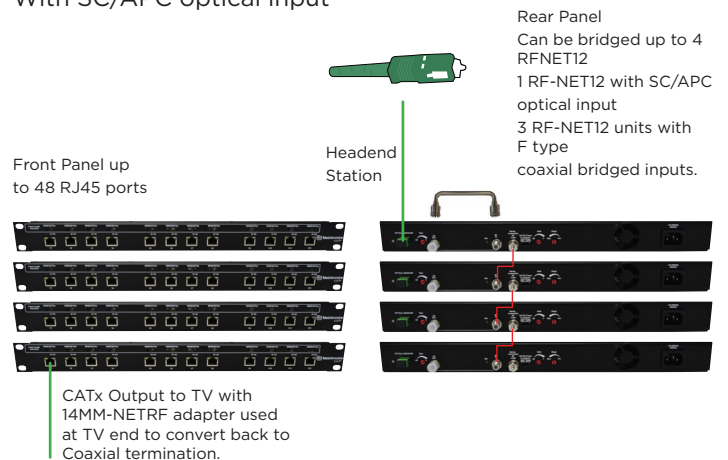


Switch TV 19" - 1U - 12 RJ45 Ports Switches Bridging Method

With F-Type coaxial input



With SC/APC optical input



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Frequency		86-694 Mhz		
LAN Cable length	15m	30m	60m	90m
Attenuation	32dB	20dB	12dB	0dB
Output gain	3dB	15dB	23dB	35dB
Attenuation		20dB adjustable		
Slope		20dB		
Additional RF series connection F-port with -6dB insertion Loss				
Output level		114dBuV (IMD3-54dBc)		
Optical				
Frequency		47-862Mhz		
Operating wavelength		1260-1620nm		
Input range		+2/-15dBm		
Gain adjustable		20dB		
Power supply		110-240 volt		
Power consumption		19W		
Input level		60-90dBuV		
Output level (DIN45004B)		114 dBuV		
Bandwidth		86-694MHz		
Number of outputs		12 RJ45		
From factor 19"		1 U		
Weight		3.83Kg		
Input impedance (F connector)		75 Ohms		
Output impedance (RJ45)		100 Ohms		
Noise figure		<6 dB		
Input return loss		>15 dB		
Out of band attenuation		>55 dB		
Maximum gain		36 dB		
General attenuation adjustment		de 0 a 20 dB		
Slope adjustment minimum - maximum		over the whole band		
Pre amplifier power supply		14V/300mA		
Active pre-amplifier voltage presence indication		14V (green LED)		
Operating signal presence indicator		green LED		
Individual output level adjustment		4 position switch depedning on cable length (15, 30, 60 & 90m		
Output Signal presence indicator		Green LED on each RJ45 port when Balun is connected. Signal cut off in the absence of adapter		
Cascade Capability		Up to 4 RF-NET12 units (48 RJ45 outputs)		
Distributed signals		Distribution of digital RF signals FM & DVBT (86-694 MHz)		

Note: The through-output signal is attenuated by -6dB when bridging to another module
 * Cooling fan will switch on automatically when the internal heat >35°C