

WISI 108-1218MHz 42dB Gain Remote Powered Amplifier 14MM-VX29B



The VX29B is a 42dB gain remote powered distribution amplifier with a waterproof and RF-screened die-cast housing. The VX29B is perfect for harsh environments such as pedestals and other types of outdoor enclosures. Two-way output is available by using the XM51B splitter (sold separately). 14MM-ZG28 required to adapt to F-Type outputs or 14MM-ZG01 for 5/8 output.



Features and Benefits

- » 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



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14MM-VX29B



Specifications

Down-Stream / DS	
Frequency range	108...1218 / 258...1218 MHz (F1/F2)
Noise figure	9 dB
Gain	44 dB (± 0.75 dB)
Frequency response	± 0.75 dB
Input attenuator	0...20 dB (0.5 dB steps)
Interstage cable simulator	0/5/10 dB
Interstage attenuator	0...20 dB (0.1 dB steps)
Interstage equalizer	0...25 dB (0.1 dB steps) / pivot point 1218MHz
Interstage slope	0...15 dB (1 dB steps) / pivot point 1218 MHz
Output level	106 dB μ V (all QAM (138 x 256 QAM), BER <1e-9, flat)
Output level	108 dB μ V (all QAM (138 x 256 QAM), BER <1e-9, 12 dB slope)
Output level	111 dB μ V (Cenelec 41 Ch, CTB/CSO >60 dB)
Output level	113 dB μ V (Cenelec 41 Ch, CTB/CSO >60 dB slope 12 dB)
Input test point (bidirectional)	-20 dB (± 1.5 dB to 858 MHz / ± 2 dB 1218 MHz)
Output test point (directional coupler)	-20 dB (± 0.75 dB)
Automatic level and slope control (ALSC)	
ALSC-Mode	off / one pilot / two pilots
Pilot frequency	40...1002 MHz 0.1 MHz
Pilot modulation format	QAM / PAL / CW
Control range within the user settings	± 6 dB / att / slope
Upstream (US)	
Frequency range	5...85/5...204 MHz (F1/F2)
Gain	32 dB (± 0.75 dB)
Frequency response	± 0.75 dB
Input attenuator	0...15 dB (0.5 dB steps)
Interstage equalizer	0...12 dB (1 dB steps)
Interstage attenuator	0...15 dB (0.5 dB steps)
Noise figure	8 dB
Output level	
-F1 / 8 QAM256 BER <1E-9	> 113 dB μ V
-NPR > 50 dB	60 MHz load / -7dB μ V / dyn. > 22 dB
-F2 / 24 QAM256 BER <1E-9	> 107 dB μ V

-NPR > 50 dB	192 MHz load. / -7 dB μ V/Hz / dyn. > 16 dB
Ingress Control Switch (ICS)	0/ -6/ <-45 dB (Opt. with Receiver-mod)
General data	
RF connectors	PG11
Impedance	75 Ω
In/Output return loss	5...40 MHz >18 dB, 40..1218 MHz >18 dB, -1.5 dB/oct. >12 dB
Supply voltage	27...90 V AC
Power consumption	24 W
Remote power current insertion	< 10 A
Remote power current in and outputs	< 10 A
Hum modulation @ 7A, f > 15 MHz	> 70 dB
Ambient temperature	-20...+65°C
Protection class	IP66
EMC	EN50083-2
Surge protection RF ports	6 kV (1.2/50 μ s pulse EN61000-4-5)
Dimensions (width x height x depth)	232 x 158 x 86 mm
Bluetooth functionality	
Downstream configuration	Input attenuator, interstage attenuator, interstage slope, interstage equalizer, cablesimulator, ALSC, FlexAccess
Upstream configuration	Input attenuator, Interstage attenuator, Interstage equalizer, ICS, ALSC, FlexAccess
Options	ICS-Receiver -> Receiveraccording to EN60728-14, UNI - UHF Slope -> XE...