

Multi-way Booster and Distribution Amplifier Range

Part of the PROception core range for the professional aerial and system installer, these new amplifier designs are optimised for today's mixed analogue and digital signal environment. For the distribution amplifiers the combination of moderate gains and low noise figures allows cable losses to be overcome, whilst reducing the risk of signal overload problems.

Ideal for domestic and other small systems, the range of distribution amplifiers covers from two to eight outputs (expandable to sixteen or more via the 'FULL' outputs). The range is completed by a low-noise one-way general purpose booster amplifier with higher gain; this is useful in weak signal areas where it is desired to avoid installing a masthead amplifier, or as a line-extender amplifier for driving long cable runs.

A range of PROception 'return-path' amplifiers is also available for distribution applications where control of a Sky* Digibox is required from a remote location.

Range features

- All-new British designs for today's mixed analogue and digital signal environment and the all-digital future.
- Cool-running power supply and high-quality components throughout for a long reliable working life.
- Fully screened and compliant with European EMC and safety standards.
- Suitable for use as traditional aerial amplifiers, or can be fed from the UHF loop-through chain to distribute VCR and set-top box output channels.

1- and 2-way amplifiers

- Attractive compact moulded case – the most unobtrusive mains-powered amplifier in its class.
- Low noise figures, high gain on one-way booster.
- Very high output capability – allows use for driving long cable runs.
- Wideband coverage includes Band II (VHF/FM), Band III (DAB) and UHF TV.
- Input filter with sharp cut-off below 88 MHz.



4- 6- and 8-way amplifiers

- Separate filtered Band II (VHF/FM) and UHF TV inputs.
- Sharp cut-off UHF input filter gives useful rejection at 400 MHz – helps avoid interference from Airwave TETRA base stations.
- Higher gain 'FULL' output on 6- and 8-way versions allows expansion to eight or more additional outlet points.
- Line-power at UHF input can supply up to 100 mA for higher output capability preamplifiers – useful in situations involving a very long cable run from the aerial.



Technical data

proAMP11, proAMP12, proAMP24, proAMP26, proAMP28					
	proAMP11	proAMP12	proAMP24	proAMP26	proAMP28
Number of inputs	1 (wideband)	1 (wideband)	2 (FM & UHF)	2 (FM & UHF)	2 (FM & UHF)
Number of outputs	1	2	4	6 + 'FULL'	8 + 'FULL'
Signal frequency range(s)	Wideband: 87.5 .. 862 MHz		FM: 87.5 .. 108 MHz; UHF: 470 .. 862 MHz		
Noise figure	2.5 dB	3.5 dB	3.5 dB	3.5 dB	3.5 dB
Gain to each output (except 'FULL')	12 dB	4 dB	9 dB	5 dB	5 dB
Gain to FULL output	–	–	–	18 dB	18 dB
Output capability ¹	100 dBµV	92 dBµV	86 dBµV	82 dBµV	82 dBµV
UHF input line-power	–		12 V DC at 100 mA max. load with auto shutdown		
Mains power requirement	230 V 50 Hz at ≤ 3 VA		230 V 50 Hz at ≤ 6 VA		
Power indicator	Green LED (all models)				
Housing dimensions (overall) ²	143 x 51 x 46 mm		282 x 87 x 49 mm		
Signal connector type	'IEC' (IEC 60169-2)				
Operating temperature range	–10 .. +40 °C				
Standards compliance	Safety: BS EN 60065:1998; EMC: BS EN 50083-2:2001				

Notes

1. Output capability is given for 5 analogue TV channels plus up to 6 DTT multiplexes at ≤ –14 dB relative level (FM radio signals should not exceed –10 dB relative to analogue TV).
2. Width x height x depth (as viewed mounted on wall). Excludes connectors and power cord bushing.

Performance data given are typical unless otherwise stated, and are not intended to constitute a contractually binding specification. Proception Limited reserves the right to change product designs and specifications without prior notice.

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