

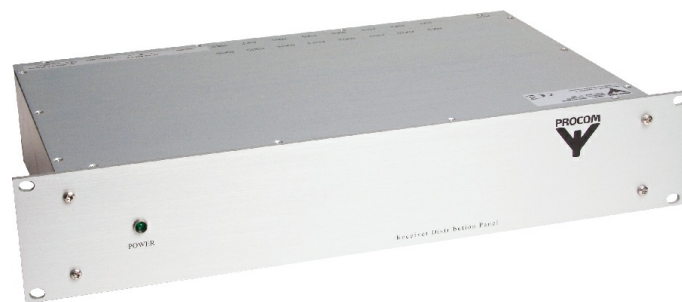
19 Rack-Mountable High-Performance Receiver Multicoupler series with 4 inputs for the LF, MF and HF

DESCRIPTION

- Multicouplers with 4 inputs and 16 or 32 outputs.
- For use where a number of receivers have to share the same antenna.
- Active wideband receiver multicouplers for the LF, MF and HF bands with 4 input and 16 or 32 outputs.
- Allows a number of receivers to share the same antenna system without interaction and loss of signal.
- 4 identical passively combined 0 ° antenna inputs allows up to 4 antennas to be connected simultaneously, e.g. to form a phased antenna system.
- Wide frequency range: Covers 100 kHz – 30 MHz. If only a smaller frequency range is desired, a customer specified preselector can be built in to prevent possible interference from strong transmitters outside the frequency band of interest. Procom A/S offer a number of band specific filters intended for preselector use.
Please specify when ordering.
- Ultra-high dynamic range amplifier built in to compensate for loss in multicoupler network.
- The excellent large signal behaviour of the amplifier ensures handling of strong RF signals with very low levels of IM and harmonic distortion.
- Low amplifier noise figure ensures minimum S/N deterioration of the received and distributed RF signals.
- Built-in signal limiter to protect amplifier input from signals larger than 10Vpp.
- Built-in DC grounded 100 kHz HP filter to protect amplifier input from strong VLF noise e.g. during thunderstorms.
- Static discharge protected by Gas Discharge Tube across the input.
- High isolation between receiver outputs.
- Operates on 230 VAC mains supply or 12 V DC supply. (24V as option).
- Galvanically isolated power supply with backup function.
- Automatic switching to DC supply if the 230V mains supply fails.
- "POWER ON" lamp on front.
- 230VAC supply connector: IEC type fitted with mains filter.
- DC supply connector: Terminal block fitted with noise filter.
- RF connectors: N-female on all ports (other types on request).
- 19" rack module housing.
- Only 2 HU (PRO-ARHP16-4GS) or 3 HU (PRO-ARHP32-4GS) (1 height unit = 44.45 mm).

ORDERING

Type	Product No.	Description
PRO-ARHP32-4GS-N	210000363	OUTPUTS: 32
PRO-ARHP16-4GS-N	210000364	OUTPUTS: 16



SPECIFICATIONS

Electrical	
Gain (Input To All Outputs)	1 dB
Frequency	100 kHz - 30 MHz
Gain Variance	< 2.0 dB
Effective Noise Figure All Inputs	< 11 dB @ 10 MHz
Maximum Output Power @P1dB	> +12 dBm @ 1 MHz
Noise Figure	< 5 dB @ 10 MHz
OIP3	> +27 dBm @ 1 MHz > +20 dBm @ 30 MHz
Impedance	50 Ω
OIP2	> +46 dBm @ 1 MHz > +33 dBm @ 15 MHz
Isolation Between Outputs	> 20 dB
Power Supply	230 V @ 0.1A/ 12 V @ 1A
Input VSWR	< 1.5:1 typically < 1.3:1
Input-Output Isolation	> 40 dB
Output VSWR	Max. 1.5:1 typically < 1.3:1
No. Of Channels	16 to 32

Mechanical	
Power Connector	3-terminal IEC60320-1 C14 (male)
Connection(s)	N female (standard), BNC, TNC or SMA on request
DC Connector	3-pole screw terminal block
Dimensions	PRO-ARHP16-4GS: 19" x 2HU x 261 mm (483 x 89.9 x 261 mm) / (19.02 x 3.54 x 10.28") PRO-ARHP32-4GS: 19" x 3HU x 261 mm (483 x 133.4 x 261 mm) / (19.02 x 5.23 x 10.28")
Weight	5 kg / 11.02 lb

Environmental	
Operating Temperature Range	-10° C to +50° C
Humidity	Max. 85% @ 30° C

ADDITIONAL DATA

STANDARD LOW-LOSS PRESELECTOR FILTERS FOR PRO-ARHP...GS

TYPE DESIGNATION	FILTER TYPE	PASS BAND
BPF 1.5-30	Band pass	1.5 - 30 MHz
BPF 2-9	Band pass	2.0 - 9 MHz
BPF 2-17	Band pass	2.0 - 17 MHz
HP2	High pass	2.0 - 40 MHz

