

19" Rack-Mountable Receiver Multicoupler series for the VHF through low UHF bands 30 MHz - 960 MHz

BESCHREIBUNG

- > Multicouplers with 1 input and 4, 8, 12 or 16 outputs.
- > For use where a number of receivers have to share the same antenna.
- > Active wideband receiver multicoupler for the VHF and low UHF bands with 1 input and 4, 8, 12 or 16 outputs.
- > Allows a number of receivers to share the same antenna without interaction and loss of signal.
- > Wide frequency range: Covers 30 MHz – 960 MHz.
- > If only a smaller frequency range is desired, a preselector filter can be built in to prevent possible interference from strong transmitters outside the frequency band of interest. Amphenol Procom offer a wide range of both band selective and narrow-band low-loss filters suitable for preselector use. Please refer to the preselector overview and specify frequency range when BESTELLUNG.
- > Other rack-mounted multicoupler series available:
 - > PRO-ARS: 10 kHz – 108 MHz
 - > PRO-ARU: 690 MHz – 2700 MHz
- > Ultra-high dynamic range amplifier built in to compensate for loss in multicoupler network.
- > Push-pull high-current amplifier design ensures outstanding multicoupler linearity and high reject of especially even-order distortion products.
- > Handles even very strong RF signals with negligible levels of IM and harmonic distortion.
- > Low amplifier noise figure ensures lowest possible S/N deterioration of the received and distributed RF signals.
- > High isolation between receiver outputs.
- > Operates on 230 VAC or 115 VAC mains supply or 12 V or 24 V DC supply (depending on type, see BESTELLUNG designations).
- > Galvanically isolated power supply with power backup function.
- > Automatic switching to DC supply if the mains supply fails.
- > "POWER ON" lamp on front.
- > Mains supply connector: IEC type fitted with noise 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 1 HU (PRO-AR4G-... and PRO-AR8G-...) or 2 HU (PRO-AR12G-... and PRO-AR16G-...) (1 height unit = 44.45 mm).
- > Available with black powder lacquered front plate.
- > Front plate black structure powder painted.



SPEZIFIKATIONEN

Elektrisch DE		
Modell	PRO-AR4G-N	PRO-AR8G-N PRO-AR12G-N PRO-AR16G-N
Gewinn (Eingabe Aller Ausgänge)	2 dB	
Frequenz	30 - 960 MHz	
Effektive Lärm Abbildung Alle Ausgänge	< 5.5 dB	< 8.0 dB
Gewinnvarianz	< ±2.0 dB	
Max. Output-Leistung @ 1 dB Kompression (P1dB)	> +20 dBm	> +17 dBm
Lärmfigur, Verstärker	< 4.0 dB	< 6.0 dB
Interceptpunkt 2. Ordnung (OIP2)	> +60 dBm	> +50 dBm
Interceptpunkt 3. Ordnung (OIP3)	> +33 dBm	> +25 dBm
Impedanz	50 Ω	
Eingabe VSWR	Max. 2.5:1 With Preselector: Max. 2.0:1, typ. <1.5:1	
Output VSWR	< 1.5:1	
Max. Eingangsleistung (dBm)	18 dBm	
Isolierung Zwischen Den Ausgängen	30 - 100 MHz: > 20 dB 100 - 400 MHz : > 27 MHz 400 - 800 MHz: > 20 dB 800 - 960 MHz: > 18 dB	
Eingangs-Ausgangs-Isolierung	> 23 dB	> 46 dB
Energieversorgung	230 V models: 198 to 264 VAC 47 - 63 Hz/ Max. 0.16 A 115 V models: 100 to 127 VAC 47 - 63 Hz/ Max. 0.32 A	
Stromaufnahme	0.6 to 0.7 A	PRO-AR8G-... : 1.0 to 1.3 A PRO-AR12G-... : 1.4 to 1.7 A PRO-AR16G-... : 1.8 to 2.1 A
DC Versorgung, 12 VDC Typen	10.8 to 14.4 VDC	
DC-Versorgung, 24 VDC-Typen	20 to 28 VDC	
Anzahl der Kanäle	4, 8, 12 or 16	

Mechanisch DE	
Stecker	3-pol. IEC60320-1 C14 (männlich)
Anschlussstyp	N female (standard), BNC, TNC or SMA on request
DC-Verbinder	3-polige Schraubklemme
Abmessungen	PRO-AR4G-..., PRO-AR8G-...: 19" x 1HU x 261 mm (483 x 44.45 x 261 mm) PRO-AR12G-..., PRO-AR16G-...: 19" x 2HU x 261 mm (483 x 89.9 x 261 mm)
Höhe	0 to 2000 m
Gewicht	PRO-AR4G-..., PRO-AR8G-... : ca. 2.8 kg. PRO-AR12G-..., PRO-AR16G-... : ca. 4.4 kg.

Umwelt	
Betriebstemperaturbereich	-10°C to +50°C
Feuchtigkeit	< 90% non-condensing

BESTELLUNG

Modell	Produkt Nr	Beschreibung
PRO-AR16G-N	210000111	OUTPUTS: 16 230 VAC Supply
PRO-AR4G-N	210000127	OUTPUTS: 4 230 VAC Supply
PRO-AR8G-N	210000129	OUTPUTS: 8 230 VAC Supply
PRO-AR8G-N-24V	210000152	OUTPUTS: 8 230 VAC Supply
PRO-AR4G-N-24V	210000165	OUTPUTS: 4 230 VAC Supply
PRO-AR12G-N	210000482	OUTPUTS: 12 230 VAC Supply
PRO-AR16G-N-24V	210001183	OUTPUTS: 16 230 VAC Supply
PRO-AR12G-N-24V	210001638	OUTPUTS: 12 230 VAC Supply
PRO-AR4G-N-115V/12V	210001711	OUTPUTS: 4 115 VAC Supply
PRO-AR4G-N-115V/24V	210002596	OUTPUTS: 4 115 VAC Supply
PRO-AR8G-N-115V/12V	210000250	OUTPUTS: 8 115 VAC Supply
PRO-AR8G-N-115V/24V	210001089	OUTPUTS: 8 115 VAC Supply
PRO-AR12G-N-115V/12V	210002597	OUTPUTS: 12 115 VAC Supply
PRO-AR12G-N-115V/24V	210002598	OUTPUTS: 12 115 VAC Supply
PRO-AR16G-N-115V/12V	210002599	OUTPUTS: 16 115 VAC Supply
PRO-AR16G-N-115V/24V	210002600	OUTPUTS: 16 115 VAC Supply

MODEL HOUSING

PRO-AR4G-N AND PRO-AR8G-N



PRO-AR12G-N AND PRO-AR16G-N



MODEL HOUSING - BACK SIDE

PRO-AR8G-N



LOW-LOSS PRESELECTOR FILTERS FOR PRO-AR...G, OVERVIEW

Band selective standard blackbox filters (other filters on request)

TYPE DESIGNATION	FILTER TYPE	PASS BAND FREQUENCY RANGE
BPF 66-88	Band pass	66 - 88 MHz
BPF 88-108	Band pass	88 - 108 MHz
BPF 112-136	Band pass	112 - 136 MHz
BPF 118-137	Band pass	118 - 137 MHz
BPF 118-174	Band pass	118 - 174 MHz
BPF 136-225	Band pass	136 - 225 MHz
BPF 146-174	Band pass	146 - 174 MHz
BPF 225-400	Band pass	225 - 400 MHz
BPF 300-500	Band pass	300 - 500 MHz
BPF 800-1000	Band pass	800 - 1000 MHz
LP 174-FME	Low pass	0 - 174 MHz
HP 380-FME	High pass	380 - 1000 MHz

Narrow band standard BP filters:

TYPE DESIGNATION	FILTER TYPE	CENTER FREQUENCY	-1 dB BANDWIDTH
BPF 4/4-[BW]	Band pass	To be ordered within 66 - 88 MHz	To be specified as 2, 4 or 6 MHz
BPF 3/4	Band pass	To be ordered within 112-136 MHz	1.5 MHz
BPF 2/4-[BW]	Band pass	To be ordered within 144-175 MHz	To be specified as 2, 4 or 6 MHz
BPF 70/4-HX	Band pass	To be ordered within 380-470 MHz	To be ordered within 3-15 MHz
BPF 900/4	Band pass	To be ordered within 820-960MHz	Typ. 7 MHz

HOW TO ORDER CUSTOMIZED TYPES

PRO-AR	8G	-N(f)	-BPF	-115V/24 V
↓	↓	↓	↓	↓
Series	No. of outputs	Connector type	Preselector filter**	Supply voltage
PRO-AR	4 outputs = 4G 8 outputs = 8G 12 outputs = 12G 16 outputs = 16G	N-female = -N(f) TNC-female = -TNC(f) BNC-female = -BNC(f)	No filter = blank* Band pass = -BPF High pass = -HPF Low pass = -LPF	230VAC/12 VDC = blank* 230VAC/24 VDC = -24 V 115VAC/12VDC = -115 V/12 V 115VAC/24VDC = -115 V/24 V

* "blank" means sign omitted.

** Preselector pass band [MHz] to be stated after the BESTELLUNG designation.

EU DECLARATION OF CONFORMITY

Hereby Amphenol Procom declare that the product type PRO-AR...G is in compliance with EU Directive 2014/53/EU.
The full text of the EU Declaration of Conformity is available at:

</images/shop/catalog/pdf-for-catalogues/Declaration-of-Conformity-PRO-ARxG.pdf>