

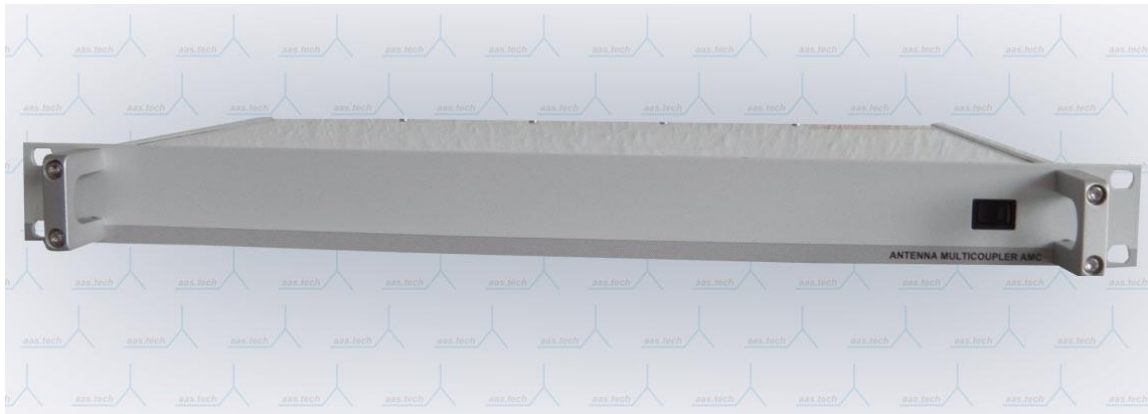
Product Information

Antenna Distributor AMC A1 Series 1.6 MHz – 30 MHz

The antenna distributors of the AMC series are a very flexible antenna distribution solution. It is available for various frequency ranges from 10 kHz to 3.6 GHz. The AMC series is furnished into a single 19-inch 1 HU slide-in unit, so its small footprint allows for flexible integration into the application environment.

The AMC A1 series covers the frequency range from 1.6 MHz to 30 MHz.

The AMC receives one antenna signal and distributes it to 4, 8, 12 or 16 outputs. BNC, N or SMA type output connectors are available. Further customer requirements can be considered on request.



General Data

Parameter	AMC 4	AMC 8 AMC 12 AMC 16
Dimension slide-in unit (w x h x d)	19" 1 u (44 mm) 280 mm	
Weight	3,6 kg	3,9 kg
Colour of Front Panel	RAL 7035 (light grey)	
Mains Supply	85 – 264 Vac, 48 - 60 Hz	
Power Consumption	8 VA	15 VA
Battery Supply (Option DC)	18 – 36 Vdc, max. 0,5 A	
Ambient Temperature	-10°C ... +60°C	
Storage Temperature	-50°C ... +80°C	
Relative Humidity ^{Note 1}	95%	

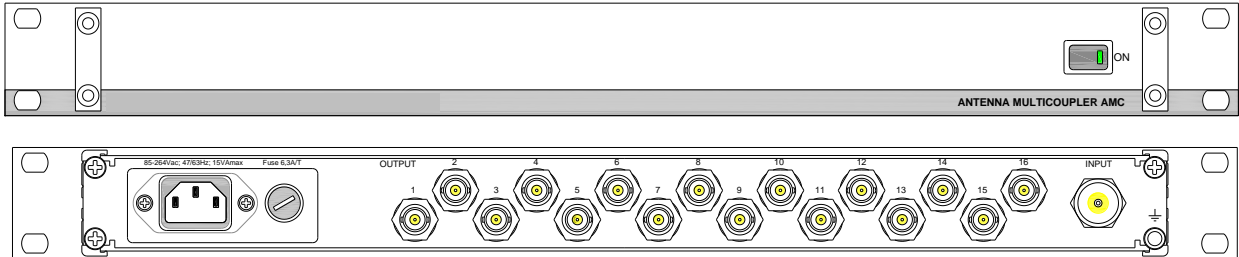
Technical Data

Parameter	AMC 4	AMC 8 AMC 12 AMC 16
Vibration	IEC 60068-2-6	
EMC	Interference Immunity EN 61000-6-1 Interference Emissions EN 61000-6-3	
MTBF	> 60.000 h	> 45.000 h
MTTR (replacement of subunits)	0,5 h	
Frequency Range	1.6 - 30 MHz	
Number of Antenna Inputs	1 N socket	
Number of Outputs	4	8 (AMC 8) 12 (AMC 12) 16 (AMC 16)
Input Impedance	50 Ohm VSWR < 1,5	
Output Impedance	50 Ohm VSWR < 1,5	
Gain	1,5 ± 0,5 dB	2,5 ± 1,0 dB
Noise Figure	< 7,0 dB	< 8,0 dB
Intercept Point IPOP2	> 58 dBm	> 57 dBm
Intercept Point IPOP3	> 40 dBm	> 39 dBm
1 dB Compression	> 13 dBm	
Maximum Signal Level (continuous wave)	22 dBm	
Input Protection (pulse)	2 kV 1,2/50 µsec	
Decoupling between two outputs	> 38 dB	
Decoupling between output and input	> 70 dB	> 85 dB

Note 1:
 Relative humidity valid for the front panel, non-condensing

Data given without tolerance are typical values.
 Design and specification are subject to change without prior notice, errors excepted.

Views



Rear view shows version fully equipped with 16 BNC connectors

Scope of Supply

Pos.	Description
1	Antenna Distributor AMC ...
2	Accessory Set ZS 51
3	USB stick with product documentation in pdf format

Accessories

Type Designation	Part No.	Description
ZS 51	0028.3751.00	Accessory set consisting of <ul style="list-style-type: none"> - 4 ea. Phillips-head screw M6x14 Part No. G.0008 - 2 ea. Fuse 5A/250V/T/5x20mm Part No. E.0046 NSN 5920-12-140-8333 - 1 ea. Power Cord ICE Part No. KA.0171

Type Designation

Variant	AMC NN C – A1
NN = Number of Outputs	NN = 4: 4 outputs NN = 8: 8 outputs NN = 12: 12 outputs NN = 16: 16 outputs
C = Type of Output Connectors	C = B: BNC connectors C = N: N connectors (max. 8 N connectors) C = S: SMA connectors

Variants and Order Information

Type Designation	Part No. NSN	Description
AMC 4 B-A1	0028.6133.00 ---	1 input to 4 BNC outputs 1.6 MHz – 30 MHz AC mains power supply
AMC 4 B-A1-AA	0028.6147.00 ---	1 input to 4 BNC outputs 1.6 MHz – 30 MHz Option AA: Remote power supply for Active Antenna AC mains power supply
AMC 8 B-A1	0028.6134.00 ---	1 input to 8 BNC outputs 1.6 MHz – 30 MHz AC mains power supply
AMC 12 B-A1	0028.6146.00 ---	1 input to 12 BNC outputs 1.6 MHz – 30 MHz AC mains power supply
AMC 4 N-A1-AA	0028.6145.00 ---	1 input to 4 N outputs 1.6 MHz – 30 MHz Option AA: Remote power supply for Active Antenna AC mains power supply

Other variants are available on request.

Options

Option	AMC NN C – A1 - Option
DC Option	Power Supply with additional DC input 18 – 36 Vdc Power consumption max. 1 A
AA Option	Remote power supply for Active Antennas (30 Vdc, 150 mA for aas.tech Active Antennas)
Colour of Front Panel	RAL colour code to be specified by customer

Other options are available on request.

Spare Parts AMC A1 Series

Designation	Type	Part No.	Remark
Wideband Amplifier	BV A4B1	0029.5113.80	for use with AMC A1 Series 1.6 – 30 MHz, Option AA
Wideband Amplifier	BV A4B	0029.5106.80	for use with AMC A1 Series 1.6 – 30 MHz
Power Supply Module	PS H	0008.7475.00	AC supply
Power Supply Module	PS H1	0008.7476.00	AC supply, Option DC
Power Supply Module	PS H2	0008.7477.00	AC supply, Option AA
Power Supply Module	PS H3	0008.7478.00	AC supply, Option DC & Option AA
Motherboard	MB AMC	0028.2341.80	
Fuse	5,0 AT/250V 5x20 mm	E.0046	

Compatible Active Antenna Products

The following active receiving antennas match ideally to feed the distributors of the AMC series.

Type Designation	Part No. NSN	Description
STA 10 A/D/1.6-30	0005.8971.00	Active Receiving Antenna 1.6-30 MHz Doc. FIG 010108