

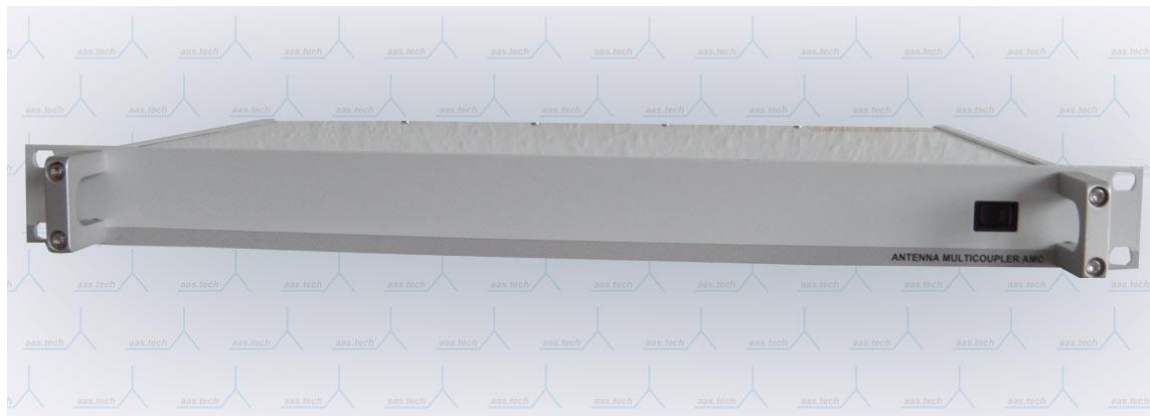
Product Information

Antenna Distributor AMC A Series 10 kHz – 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 A series covers the frequency range from 10 kHz 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

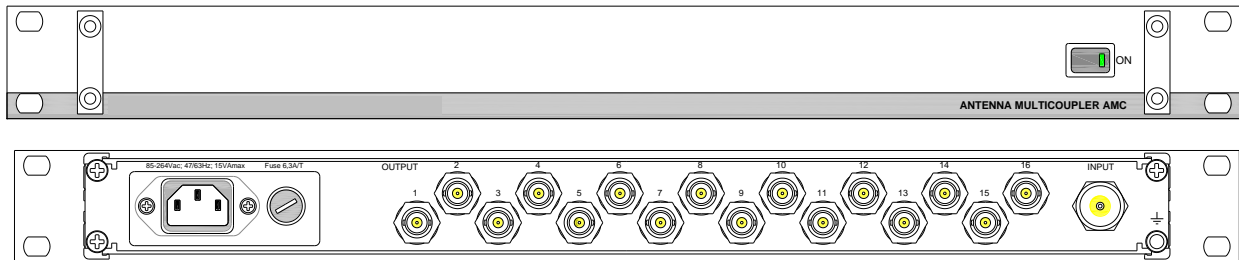
| Parameter | AMC 4 | AMC 8 AMC 12 AMC 16 |
|--|---|---|
| Vibration | IEC 60068-2-6 | |
| EMC | Interference Immunity EN 61000-6-1 Interference Emissions EN 61000-6-3 | |
| MTBF | > 60.000 h | > 45.000 h |
| MTTR (replacement of subunits) | 0,5 h | |
| Frequency Range | 0,01 - 30 MHz | |
| Number of 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 ^{Note 2} | 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

Note 2:
Frequency range 30 kHz – 30 MHz

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 – A |
|-------------------------------|--|
| 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-A | 0028.6131.00 --- | 1 input to 4 BNC outputs 10 kHz – 30 MHz AC mains power supply |
| AMC 4 B-A-AA | 0028.6138.00 --- | 1 input to 4 BNC outputs 10 kHz – 30 MHz Option AA: Remote power supply for Active Antenna AC mains power supply |
| AMC 4 B-A-DC | 0028.6140.00 --- | 1 input to 4 BNC outputs 10 kHz – 30 MHz Option DC: AC&DC mains power supply |
| AMC 4 B-A-DC-AA | 0028.6135.00 --- | 1 input to 4 BNC outputs 10 kHz – 30 MHz Option DC: AC&DC mains power supply Option AA: Remote power supply for Active Antenna |
| AMC 8 B-A | 0028.6122.00 --- | 1 input to 8 BNC outputs 10 kHz – 30 MHz AC mains power supply |
| AMC 8 B-A-AA | 0028.6139.00 --- | 1 input to 8 BNC outputs 10 kHz – 30 MHz Option AA: Remote power supply for Active Antenna AC mains power supply |
| AMC 8 B-A-DC | 0028.6136.00 --- | 1 input to 8 BNC outputs 10 kHz – 30 MHz Option DC: AC&DC mains power supply |
| AMC 8 B-A-DC-AA | 0028.6132.00 --- | 1 input to 4 BNC outputs 10 kHz – 30 MHz Option DC: AC&DC mains power supply Option AA: Remote power supply for Active Antenna |
| AMC 12 B-A | 0028.6121.00 --- | 1 input to 12 BNC outputs 10 kHz – 30 MHz AC mains power supply |
| AMC 16 B-A | 0028.6141.00 --- | 1 input to 16 BNC outputs 10 kHz – 30 MHz AC mains power supply |

Variants and Order Information (continued)

| Type Designation | Part No. NSN | Description |
|------------------|---------------------|---|
| AMC 4 N-A | 0028.6129.00 --- | 1 input to 4 N outputs 10 kHz – 30 MHz AC mains power supply |
| AMC 4 N-A-AA | 0028.6117.00 --- | 1 input to 4 N outputs 10 kHz – 30 MHz Option AA: Remote power supply for Active Antenna AC mains power supply |
| AMC 8 N-A | 0028.6127.00 --- | 1 input to 8 N outputs 10 kHz – 30 MHz AC mains power supply |
| AMC 8 N-A-AA | 0028.6118.00 --- | 1 input to 8 N outputs 10 kHz – 30 MHz Option AA: Remote power supply for Active Antenna AC mains power supply |
| AMC 16 S-A | 0028.6144.00 --- | 1 input to 16 SMA outputs 10 kHz – 30 MHz AC mains power supply |

Other variants are available on request.

Options

| Option | AMC NN C – A - 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 A Series

| Designation | Type | Part No. | Remark |
|---------------------|------------------------|--------------|---|
| Wideband Amplifier | BV A4A1 | 0029.5112.80 | for use with AMC A Series 0.01 – 30 MHz, Option AA |
| Wideband Amplifier | BV A4A | 0029.5105.80 | for use with AMC A Series 0.01 – 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/0.01-30 | 0005.8914.00 5985-12-314-1129 | Active Receiving Antenna 0.01-30 MHz Doc. PIG 010103 |
| STA 5 A/D/0.01-0.6 | 0005.8963.00 | Active Receiving Antenna 0.01-0.6 MHz Doc. PIG 010105 |
| STA 10 A/D/0.01-1.6 | 0005.8969.00 | Active Receiving Antenna 0.01-1.6 MHz Doc. PIG 010106 |
| STA 10 A/D/1.6-30 | 0005.8971.00 | Active Receiving Antenna 1.6-30 MHz Doc. PIG 010108 |