

Product Information

Remote Power Supply AAN 100 Series

This remote power supply series is a very flexible solution applicable for up to 4 active antennas to be supplied with a remote power feeding through the coaxial cable. Different types of active antennas are supported.



AAN 110

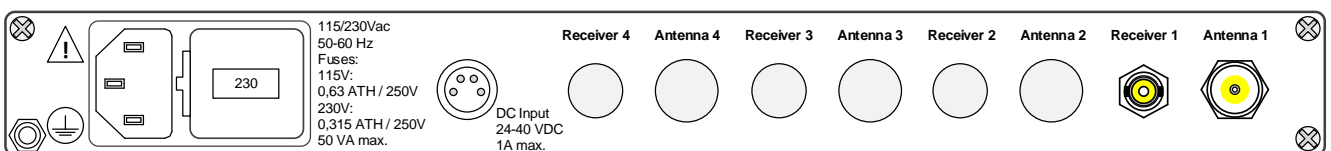
The modular design allows maximum flexibility to meet individual system requirements. Different types of active antennas are supported. This series can also be used to supply active antennas with different supply voltages from one unit.

The standard version supports active antennas requiring a remote power feeding with 39 Vdc.

The device is designed for integration into 19-inch racks requiring 1 HU rack space. Its small footprint allows for flexible integration into the application environment. Specific customer requirements can be considered.



Front View AAN 110



Rear View AAN 110

Technical Data

| Parameter | AAN 110 | AAN 120 | AAN 130 | AAN 140 |
|---|--|---------|---------|------------|
| Application | Remote power supply unit for active antennas | | | |
| Dimension slide-in unit (w x h x d) | 19-inch, 1 HU, 280 mm | | | |
| Weight | 2,3 kg | 2,4 kg | 2,5 kg | 2,6 kg |
| Color | RAL 7035 (light grey) | | | |
| Ambient temperature | -10°C ... +50°C | | | |
| Storage temperature | -40°C ... +80°C | | | |
| Antenna input ports (N sockets) | 1 | 2 | 3 | 4 |
| Receiver output ports (BNC sockets) | 1 | 2 | 3 | 4 |
| Mains operation (AC) | 115/230 V +/-10 %, 48-60 Hz | | | |
| Power consumption (AC) ⁽¹⁾ | 17 VA | 34 VA | 45 VA | max. 50 VA |
| Battery supply (DC) | 24 – 40 Vdc (minus on ground) | | | |
| Power consumption (DC) ⁽²⁾ | 11 W | 22 W | 29 W | max. 30 W |
| Output voltage at antenna port ⁽³⁾ | typ.39 Vdc | | | |
| Frequency Range | 0.01 – 100 MHz | | | |
| Insertion loss | 0,8 dB | | | |

(1) AC Power consumption depends on load.

Conditions with AC Voltage 230Vac:

Operation with STA monopole antenna results in AC power consumption of 11 VA.

Operation with HD 1 A dipole antenna results in AC power consumption of 17 VA.

Operation with HD 2 A dipole antenna results in AC power consumption of 34 VA.

Operation with HD 2 A + STA 10 ... combination antenna results in AC power consumption of 45 VA.

Power consumption covers the system consisting of remote power supply and active antenna.

(2) DC Power consumption depends on battery supply voltage and load.

Conditions with battery supply voltage 40 Vdc:

Operation with STA monopole antenna results in DC power consumption of 7 W.

Operation with HD 1 A dipole antenna results in DC power consumption of 11 W.

Operation with HD 2 A dipole antenna results in DC power consumption of 22 W.

Operation with HD 2 A + STA 10 ... combination antenna results in DC power consumption of 29 W.

Power consumption covers the system consisting of remote power supply and active antenna.

(3) In case of battery operation, the output voltage may reduce depending on battery supply voltage.

This may result in an insignificant declination of the large-signal characteristics of the connected antenna

Data given without tolerance are typical values.

Design and specification are subject to change without prior notice, errors excepted.

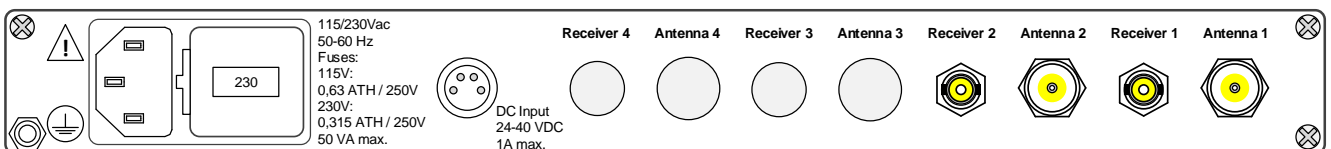
Scope of Supply

| Pos. | Description | | | |
|------|--|-----------------------------|-----------------------------|-----------------------------|
| 1 | Remote Power Supply AAN 110 | Remote Power Supply AAN 120 | Remote Power Supply AAN 130 | Remote Power Supply AAN 140 |
| 2 | Accessory Set ZS 101 | Accessory Set ZS 102 | Accessory Set ZS 103 | Accessory Set ZS 104 |
| 3 | USB stick with product documentation in pdf format | | | |

Views



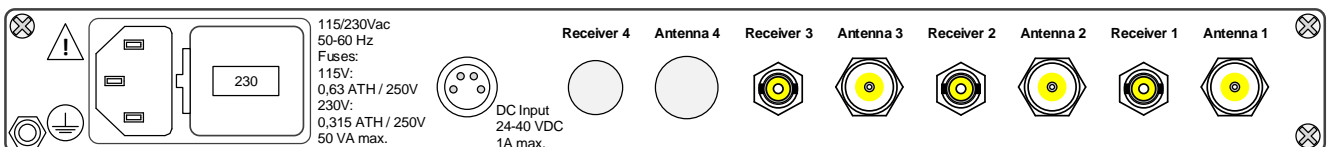
Front View AAN 120



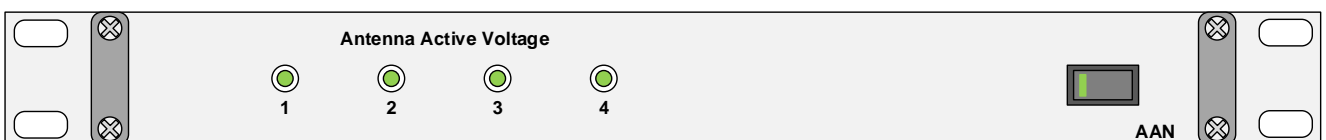
Rear View AAN 120



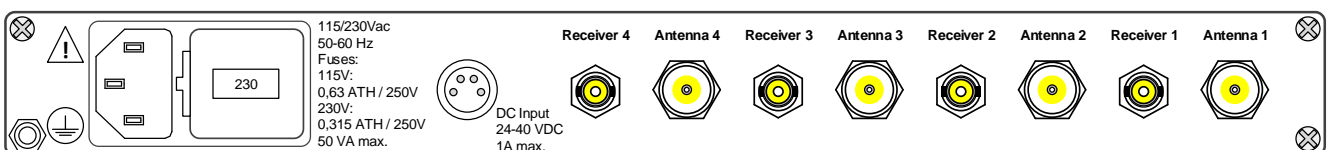
Front View AAN 130



Rear View AAN 130



Front View AAN 140



Rear View AAN 140

Accessories

| Type Designation | Part No. | Description |
|------------------|--------------|--|
| ZS 101 | 0028.4002.00 | Accessory set for use with AAN 110 consisting of <ul style="list-style-type: none"> - 4 ea. Phillips-head screw M6x14 Part No. G.0008 - 2 ea. Fuse 0.315A/250V/T/5X20mm Part No. E.0063 - 2 ea. Fuse 0.630A/250V/T/5X20mm Part No. E.0062 - 1 ea. Power Cord ICE Part No. KA.0171 - 1 ea. DC cable jack (female) C091A Part No. ST.0073 - 1 ea. N cable plug (male) RG213 Part No. ST.0015 |
| ZS 102 | 2061.2001.01 | Accessory set for use with AAN 120 consisting of <ul style="list-style-type: none"> - 4 ea. Phillips-head screw M6x14 Part No. G.0008 - 2 ea. Fuse 0.315A/250V/T/5X20mm Part No. E.0063 - 2 ea. Fuse 0.630A/250V/T/5X20mm Part No. E.0062 - 1 ea. Power Cord ICE Part No. KA.0171 - 1 ea. DC cable jack (female) C091A Part No. ST.0073 - 2 ea. N cable plug (male) RG213 Part No. ST.0015 |
| ZS 103 | 2061.2001.02 | Accessory set for use with AAN 130 consisting of <ul style="list-style-type: none"> - 4 ea. Phillips-head screw M6x14 Part No. G.0008 - 2 ea. Fuse 0.315A/250V/T/5X20mm Part No. E.0063 - 2 ea. Fuse 0.630A/250V/T/5X20mm Part No. E.0062 - 1 ea. Power Cord ICE Part No. KA.0171 - 1 ea. DC cable jack (female) C091A Part No. ST.0073 - 3 ea. N cable plug (male) RG213 Part No. ST.0015 |
| ZS 104 | 2061.2001.03 | Accessory set for use with AAN 140 consisting of <ul style="list-style-type: none"> - 4 ea. Phillips-head screw M6x14 Part No. G.0008 - 2 ea. Fuse 0.315A/250V/T/5X20mm Part No. E.0063 - 2 ea. Fuse 0.630A/250V/T/5X20mm Part No. E.0062 - 1 ea. Power Cord ICE Part No. KA.0171 - 1 ea. DC cable jack (female) C091A Part No. ST.0073 - 4 ea. N cable plug (male) RG213 Part No. ST.0015 |

Variants and Order Information

| Type Designation | Part No. | Description |
|------------------|--------------|---|
| AAN 110 | 2061.0110.00 | <p>19-inch 1 HU Remote Power Supply Unit Frequency range 0.01 – 100 MHz</p> <p>The AAN 110 provides 1 remote power feeding port and 1 receiver port, typically used with 1 active monopole antenna STA or 1 active dipole antenna HD 1 A.</p> <p>AAN 110 replaces AAN 10/B (0008.7424.00) Concerning 19-inch rack installation the AAN 110 requires 1 HU rack space instead of 3 HU required by AAN 10/B.</p> |
| | 2061.0120.00 | <p>19-inch 1 HU Remote Power Supply Unit Frequency range 0.01 – 100 MHz</p> <p>The AAN 120 provides 2 remote power feeding ports and 2 receiver ports, typically used with 2 active monopole antennas STA or 2 active dipole antennas HD 1 A or 1 active dipole antenna HD 2 A.</p> |
| | 2061.0130.00 | <p>19-inch 1 HU Remote Power Supply Unit Frequency range 0.01 – 100 MHz</p> <p>The AAN 130 provides 3 remote power feeding ports and 3 receiver ports, typically used with 3 active monopole antennas STA or 2 active dipole antennas HD 1 A or 1 active dipole antenna HD 2 A or 1 active combination antenna HD 2 A + STA ...</p> <p>AAN 130 replaces AAN 30/B (0008.7427.00) Concerning 19-inch rack installation the AAN 130 requires 1 HU rack space instead of 3 HU required by AAN 30/B.</p> |
| | 2061.0140.00 | <p>19-inch 1 HU Remote Power Supply Unit Frequency range 0.01 – 100 MHz</p> <p>The AAN 140 provides 4 remote power feeding ports and 4 receiver ports, typically used with 4 active monopole antennas STA or 2 active dipole antennas HD 1 A or 1 active dipole antenna HD 2 A or 1 active combination antenna HD 2 A + STA ...</p> |

Other variants are available on request.

Options

| Option | Part No. NSN | Description |
|-----------------------------------|--------------|---|
| RAL Color Code | 2061.xxxx.00 | Front panel in RAL color according to customer specification part number depends on RAL color code |
| Remote voltage for active antenna | 2061.xxxx.00 | Remote voltage (e.g., 12 Vdc or 24 Vdc) to feed active antennas according to customer specification part number depends on configuration |

Other options are available on request.

Spare Parts

| Designation | Type | Part No. NSN |
|-----------------------|---------------------------|--------------|
| PCB AAN Channel Board | PCB AAN CB | 2061.0140.81 |
| Fuse | Fuse 0.630A/250V/T/5X20mm | E.0062 |
| Fuse | Fuse 0.315A/250V/T/5X20mm | E.0063 |

Associated Products

For integration into the application environment associated products are available.

| 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/0.01-100 | 0005.8912.00 | Active Receiving Antenna 0.01-100 MHz Doc. PIG 010104 |
| 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 |
| HD 1 A | 0005.6610.00 | Active Receiving Dipole 1.5-30 MHz Doc. PIG 010202 |
| HD 1 A + STA 10 A/D/0.01-30 | 0005.6631.00 | Active Receiving Combination Antenna System 0.01-30 MHz Doc. PIG 010303 |
| HD 1 A + STA 10 A/D/0.01-100 | 0005.6633.00 | Active Receiving Combination Antenna System 0.01-100 MHz Doc. PIG 010304 |
| HD 2 A | 0005.6620.00 | Active Receiving Dipole 1.5-30 MHz Doc. PIG 010203 |
| HD 2 A + STA 10 A/D/0.01-30 | 0005.6641.00 | Active Receiving Combination Antenna System 0.01-30 MHz Doc. PIG 010305 |
| HD 2 A + STA 10 A/D/0.01-100 | 0005.6642.00 | Active Receiving Combination Antenna System 0.01-100 MHz Doc. PIG 010306 |
| HD 2 A + STA 10 A/D/1.6-30 | 2071.2001.00 | Active Receiving Combination Antenna System 1.6-30 MHz Doc. PIG 010307 |

Compatible Distribution Products

The following distribution systems match ideally to be fed from the AAN 100 series.

| Type Designation | Part No. | Description |
|------------------|------------------------------|---|
| AVS Series | depends on AVS configuration | <p>Antenna Distribution System AVS series for the non-blocking switching and distribution of active and passive antenna signals for more than 20 receiver outputs</p> <p>Frequency range A: 0.01 – 30 MHz Frequency range B: 1.5 – 30 MHz</p> <p>Depending on the number of connected active antennas a separate remote power supply is needed.</p> <p>Doc. PIG 020200</p> |