

4V-15A-R4



8-port multibeam antenna, 8x 1710–2690 MHz, 4x 15-17° HPBW, 4x RET with tilt indicators

- Provides 4 beams, Supporting for high capacity at venues or special events
- Increases capacity density for maximum throughput
- All RETs have a tilt indicator rod

General Specifications

| | |
|---|--|
| Antenna Type | Multibeam |
| Band | Single band |
| Color | Light Gray (RAL 7035) |
| Grounding Type | RF connector inner conductor and body grounded to reflector and mounting bracket |
| Performance Note | Outdoor usage |
| Radome Material | Fiberglass, UV resistant |
| Radiator Material | Aluminum Low loss circuit board |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 0 |
| RF Connector Quantity, mid band | 8 |
| RF Connector Quantity, low band | 0 |
| RF Connector Quantity, total | 8 |

Remote Electrical Tilt (RET) Information

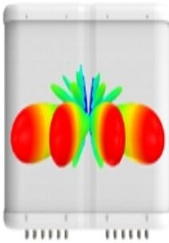
| | |
|---|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | Mid band (4) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

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Dimensions

| | |
|---------------------------------|---------------------|
| Width | 640 mm 25.197 in |
| Depth | 235 mm 9.252 in |
| Length | 1226 mm 48.268 in |
| Net Weight, antenna only | 38.1 kg 83.996 lb |

Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------------|----------|----------------------|
| Y1 | 1710-2690 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxxxxxY1 |
| Y2 | 1710-2690 | 3 - 4 | 2 | AISG1 | CPxxxxxxxxxxxxxxxxY2 |
| Y3 | 1710-2690 | 5 - 6 | 3 | AISG1 | CPxxxxxxxxxxxxxxxxY3 |
| Y4 | 1710-2690 | 7 - 8 | 4 | AISG1 | CPxxxxxxxxxxxxxxxxY4 |

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



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Electrical Specifications

| | |
|-----------------------------------|-----------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1710 – 2690 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 960 W |

Electrical Specifications

| Frequency Band, MHz | 1710–1920 | 1920–2180 | 2300–2500 | 2500–2690 |
|---|------------------|------------------|------------------|------------------|
| Gain, dBi | 21.1 | 22 | 22.5 | 22.6 |
| Beam Centers, Horizontal, degrees | ±13 ±40 | ±13 ±40 | ±13 ±40 | ±13 ±40 |
| Beamwidth, Horizontal, degrees | 17 | 16 | 13 | 12 |
| Beamwidth, Vertical, degrees | 7.8 | 7 | 6 | 5.6 |
| Beam Tilt, degrees | 2–10 | 2–10 | 2–10 | 2–10 |
| USLS (First Lobe), dB | 16 | 16 | 17 | 17 |
| Front-to-Back Ratio at 180°, dB | 31 | 32 | 29 | 31 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 |
| Isolation, Beam to Beam, dB | 18 | 19 | 17 | 16 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 |
| Input Power per Port, maximum, watts | 200 | 200 | 200 | 200 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 473.0 N @ 150 km/h (106.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 128.0 N @ 150 km/h (28.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 603.0 N @ 150 km/h (135.6 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 295.0 N @ 150 km/h (66.3 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|-----------------------|----------------------|
| Width, packed | 752 mm 29.606 in |
| Depth, packed | 377 mm 14.843 in |
| Length, packed | 1379 mm 54.291 in |
| Weight, gross | 50.1 kg 110.451 lb |

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Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



Included Products

- BSAMNT-3 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

BSAMNT-3



Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CE | Compliant with the relevant CE product directives |
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

BSAMNT-3

