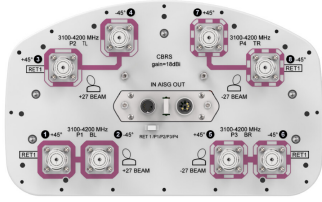


2SS-33A-R1



8-Port multibeam antenna ,8x 3100-4200 MHz , 4x 33° HPBW, 1x RET

- Enhances network capacity and spectrum utilization when used in six sector applications
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs – 3 antennas required for 6 sector configurations
- Future proof-covers bands 42,43,48 plus C-Band and future CBRS expansions

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 | Low loss circuit board |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 8 |

Remote Electrical Tilt (RET) Information

| | |
|---|---|
| RET Hardware | CommRET v2 |
| RET Interface | AISG1 8-pin DIN Female AISG1 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | High band (1) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

Dimensions

| | |
|--------------|-------------------|
| Width | 301 mm 11.85 in |
| Depth | 181 mm 7.126 in |

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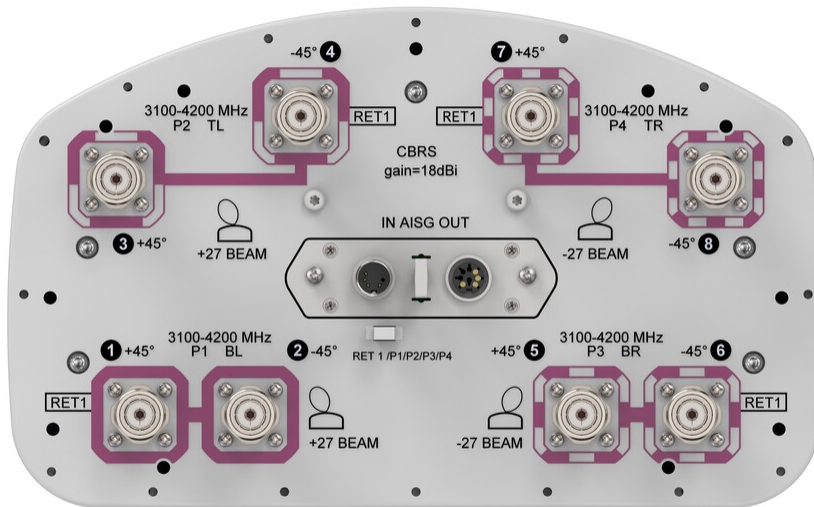
Length 1100 mm | 43.307 in
Net Weight, without mounting kit 12 kg | 26.455 lb

Array Layout

| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------------|----------|--------------------|
| P1 | 3100-4200 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxxxP1 |
| P2 | 3100-4200 | 3 - 4 | | | |
| P3 | 3100-4200 | 5 - 6 | | | |
| P4 | 3100-4200 | 7 - 8 | | | |

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

2SS-33A-R1

| | |
|-----------------------------------|-----------------|
| Operating Frequency Band | 3100 – 4200 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 640 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 3100–3550 | 3550–3700 | 3700–4200 |
|---|------------------|------------------|------------------|
| Gain, dBi | 17.5 | 17.7 | 17.8 |
| Beam Centers, Horizontal, degrees | ±27 | ±27 | ±27 |
| Beamwidth, Horizontal, degrees | 38 | 36 | 34 |
| Beamwidth, Vertical, degrees | 9.9 | 9.1 | 8.5 |
| Beam Tilt, degrees | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 19 | 24 | 20 |
| Front-to-Back Ratio at 180°, dB | 32 | 32 | 31 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 25 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -145 | -145 | -145 |
| Input Power per Port at 50°C, maximum, watts | 80 | 80 | 80 |

Mechanical Specifications

| | |
|---|--|
| Wind Loading @ Velocity, frontal | 154.0 N @ 150 km/h (34.6 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 125.0 N @ 150 km/h (28.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 297.0 N @ 150 km/h (66.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 157.0 N @ 150 km/h (35.3 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|-----------------------|---------------------|
| Width, packed | 441 mm 17.362 in |
| Depth, packed | 337 mm 13.268 in |
| Length, packed | 1245 mm 49.016 in |
| Weight, gross | 23 kg 50.706 lb |

Regulatory Compliance/Certifications

| | |
|---------------|-----------------------------------|
| Agency | Classification |
| CHINA-ROHS | Below maximum concentration value |

2SS-33A-R1

| | |
|---------------|--|
| 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

