

RRZZ-33D-R4



8-port multiband sector antenna, 4x 694-960 and 4 x 1427-2690 MHz, 33° HPBW, 4x RET

- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

General Specifications

| | |
|----------------------------------|--|
| Antenna Type | Sector |
| Band | Multiband |
| 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 |
| 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 | 4 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 8 |

Remote Electrical Tilt (RET) Information

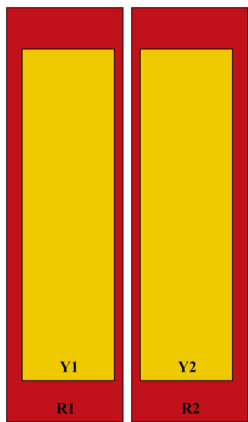
| | |
|--|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | Low band (2) Mid band (2) |
| Power Consumption, active state, maximum | 10 W |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

Dimensions

RRZZ-33D-R4

| | |
|--------------------------|----------------------|
| Width | 749 mm 29.488 in |
| Depth | 197 mm 7.756 in |
| Length | 2688 mm 105.827 in |
| Net Weight, antenna only | 67 kg 147.71 lb |

Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------------|----------|------------------|
| R1 | 694-960 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxR1 |
| R2 | 694-960 | 3 - 4 | 2 | AISG1 | CPxxxxxxxxxxxxR2 |
| Y1 | 1427-2690 | 5 - 6 | 3 | AISG1 | CPxxxxxxxxxxxxY1 |
| Y2 | 1427-2690 | 7 - 8 | 4 | AISG1 | CPxxxxxxxxxxxxY2 |

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

Port Configuration



Electrical Specifications

| | |
|----------------------------|---------------------------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1427 – 2690 MHz 694 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 900 W @ 50 °C |

Electrical Specifications

| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| R1,R2 | R1,R2 | R1,R2 | Y1,Y2 | Y1,Y2 | Y1,Y2 | Y1,Y2 | Y1,Y2 |
|-------|-------|-------|-------|-------|-------|-------|-------|

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| Frequency Band, MHz | 694–790 | 790–890 | 890–960 | 1427–1518 | 1695–1920 | 1920–2180 | 2300–2490 | 2490–2690 |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| RF Port | 1-4 | 1-4 | 1-4 | 5-8 | 5-8 | 5-8 | 5-8 | 5-8 |
| Gain, dBi | 17.4 | 18.2 | 18.7 | 19.2 | 20.6 | 21.7 | 22.3 | 22 |
| Beamwidth, Horizontal, degrees | 36 | 32 | 30 | 36 | 29 | 26 | 24 | 21 |
| Beamwidth, Vertical, degrees | 8 | 7.2 | 6.6 | 7.1 | 5.9 | 5.3 | 4.7 | 4.4 |
| Beam Tilt, degrees | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 15 | 17 | 17 | 19 | 18 | 20 | 21 | 19 |
| Front-to-Back Ratio at 180°, dB | 30 | 35 | 36 | 37 | 39 | 40 | 37 | 35 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 200 | 200 | 200 | 200 | 200 |

Mechanical Specifications

| | |
|----------------------------------|---|
| Wind Loading @ Velocity, frontal | 2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 304.0 N @ 150 km/h (68.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|----------------|----------------------|
| Width, packed | 910 mm 35.827 in |
| Depth, packed | 368 mm 14.488 in |
| Length, packed | 2921 mm 115 in |
| Weight, gross | 93.6 kg 206.352 lb |

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 |

RRZZ-33D-R4

ROHS

UK-ROHS

Compliant

Compliant



Included Products

BSAMNT-4-F3

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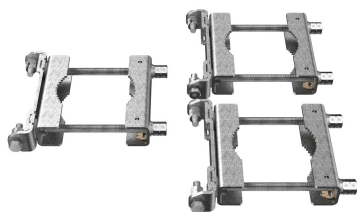
Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

BSAMNT-4-F3



Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.

Product Classification

Product Type Fixed tilt 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

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 5.6 kg | 12.346 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.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



