

RR-65A-R2VB



4-port sector antenna, 4x 694–960 MHz, 65° HPBW, 2x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Tilt indicator is available

General Specifications

| | |
|---|--|
| Antenna Type | Sector |
| 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 |
| 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 | 0 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 4 |

Remote Electrical Tilt (RET) Information

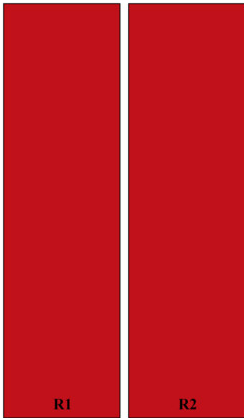
| | |
|---|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | Low band (2) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption,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

Dimensions

RR-65A-R2VB

| | |
|---------------------------------|---------------------|
| Width | 467 mm 18.386 in |
| Depth | 167 mm 6.575 in |
| Length | 1497 mm 58.937 in |
| Net Weight, antenna only | 19 kg 41.888 lb |

Array Layout



| Array ID | Frequency (MHz) | RF Connector | HPBW | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------|------------|----------|------------------|
| R1 | 694-960 | 1 - 2 | 65° | 1 | AISG1 | CPxxxxxxxxxxxxR1 |
| R2 | 694-960 | 3 - 4 | 65° | 2 | AISG1 | CPxxxxxxxxxxxxR2 |

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

Port Configuration



Electrical Specifications

RR-65A-R2VB

| | |
|-----------------------------------|---------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 694 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 800 W |

Electrical Specifications

| Frequency Band, MHz | 698–806 | 790–896 | 890–960 |
|--|----------------|----------------|----------------|
| Gain at Mid Tilt, dBi | 14 | 14.7 | 14.8 |
| Beamwidth, Horizontal, degrees | 65 | 66 | 67 |
| Beamwidth, Vertical, degrees | 15 | 13.5 | 12.4 |
| Beam Tilt, degrees | 2–16 | 2–16 | 2–16 |
| USLS (First Lobe), dB | 15 | 17 | 18 |
| Front-to-Back Ratio at 180°, dB | 32 | 32 | 32 |
| Front-to-Back Total Power at 180° ± 30°, dB | 22 | 23 | 22 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 28 | 28 | 28 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 |
| Input Power per Port, maximum, watts | 300 | 300 | 300 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 595.0 N @ 150 km/h (133.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 222.0 N @ 150 km/h (49.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 735.0 N @ 150 km/h (165.2 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|-----------------------|---------------------|
| Width, packed | 562 mm 22.126 in |
| Depth, packed | 287 mm 11.299 in |
| Length, packed | 1697 mm 66.811 in |
| Weight, gross | 28.7 kg 63.273 lb |

Regulatory Compliance/Certifications

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

RR-65A-R2VB

| | |
|---------------|--|
| 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-B95-03 | - | 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-B95-03



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 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 4.5 kg | 9.921 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 2

Regulatory Compliance/Certifications

Agency

CE
ISO 9001:2015

Classification

Compliant with the relevant CE product directives
Designed, manufactured and/or distributed under this quality management system

