

RR-65B-R2VB01



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

General Specifications

Antenna Type	Sector
Band	Single band
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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
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	13 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions


Width	467 mm 18.386 in
Depth	167 mm 6.575 in
Length	1997 mm 78.622 in

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Net Weight, without mounting kit

22 kg | 48.502 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (RET)	AISG No.	RET UID
R1	694-960	1 - 2	1	AISG1	ANxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	ANxxxxxxxxxxxxxxxxR2

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

Port Configuration



Electrical Specifications

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

Electrical Specifications

	R1,R2	R1,R2	R1,R2
Frequency Band, MHz	694–790	790–890	890–960
RF Port	1-4	1-4	1-4
Gain, dBi	15.4	15.5	16.1

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Beamwidth, Horizontal, degrees	66	64	66
Beamwidth, Vertical, degrees	11.2	9.7	9
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	19
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	27	29	27
CPR at Boresight, dB	25	25	25
Isolation, Cross Polarization, dB	26	26	26
Isolation, Inter-band, dB	26	26	26
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	820.0 N @ 150 km/h (184.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	308.0 N @ 150 km/h (69.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	542 mm 21.339 in
Depth, packed	242 mm 9.528 in
Length, packed	2237 mm 88.071 in
Weight, gross	34 kg 74.957 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
UK-ROHS	Compliant

Included Products

BSAMNT-B95-04A	–	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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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