

RR-65B-R2VB



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

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- 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
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
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	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

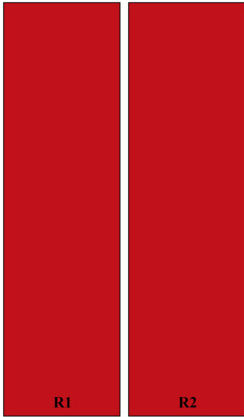
Dimensions

Width	467 mm 18.386 in
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Depth	167 mm 6.575 in
Length	1997 mm 78.622 in
Net Weight, antenna only	24.5 kg 54.013 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	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxR2

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
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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	1,2,3,4	1,2,3,4	1,2,3,4
Gain, dBi	15.4	15.5	16.1
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
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

Electrical Specifications, BASTA

	694–790	790–890	890–960
Frequency Band, MHz	694–790	790–890	890–960
Gain by all Beam Tilts, average, dBi	15	15.3	15.8
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.3	±0.2
Beamwidth, Horizontal Tolerance, degrees	±4	±4	±5
Beamwidth, Vertical Tolerance, degrees	±1	±0.5	±0.5
CPR at Boresight, dB	25	25	25
CPR at Sector, dB	13	11	11

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)

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Packaging and Weights

Width, packed	542 mm 21.339 in
Depth, packed	277 mm 10.906 in
Length, packed	2197 mm 86.496 in
Weight, gross	36 kg 79.366 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015



Classification

Designed, manufactured and/or distributed under this quality management system

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