

RR-65B-R2



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 Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
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	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	1828 mm 71.969 in
Net Weight, antenna only	33 kg 72.752 lb

RR-65B-R2

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2

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

Left Right
Bottom

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	694 – 960 MHz
Polarization	±45°

RR-65B-R2

Total Input Power, maximum 900 W @ 50 °C

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 at Mid Tilt, dBi	14.2	14.7	15.4
Beamwidth, Horizontal, degrees	67	64	58
Beamwidth, Vertical, degrees	12.1	10.8	10.1
Beam Tilt, degrees	2–12	2–12	2–12
USLS (First Lobe), dB	19	21	24
Front-to-Back Ratio at 180°, dB	31	33	29
Front-to-Back Total Power at 180° ± 30°, dB	21	21	22
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	-153	-153	-153
Input Power per Port at 50°C, 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	14.2	14.6	15.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.6	±0.4
Beamwidth, Horizontal Tolerance, degrees	±4	±4	±3
Beamwidth, Vertical Tolerance, degrees	±1	±0.9	±0.6
USLS, beampeak to 20° above beampeak, dB	18	18	16
CPR at Boresight, dB	22	23	25
CPR at Sector, dB	10	9	6

Mechanical Specifications

Wind Loading @ Velocity, frontal	711.0 N @ 150 km/h (159.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	229.0 N @ 150 km/h (51.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	998.0 N @ 150 km/h (224.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	563.0 N @ 150 km/h (126.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

RR-65B-R2

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2015 mm 79.331 in
Weight, gross	46.7 kg 102.956 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



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
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