

RZV-65B-R3



6-port sector antenna, 2x 694–960, 2x 1427–2690 and 2x 1695–2690 MHz, 65° HPBW, 3x 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	Multiband
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
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v1
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (1)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)

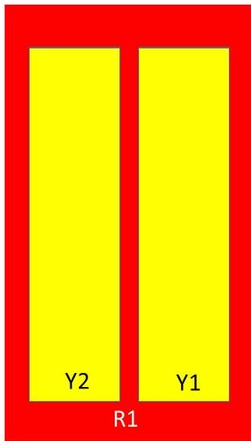
Dimensions

Width	350 mm 13.78 in
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Depth	208 mm 8.189 in
Length	1828 mm 71.969 in
Net Weight, without mounting kit	23 kg 50.706 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
Y1	1427-2690	3-4	2	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxxY2

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

Port Configuration



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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1427–1518	1695–1920	1920–2180	2300–2500	2500–2690
Gain, dBi	15.3	15.8	16	16.2	17.9	18.4	19	18.8
Beamwidth, Horizontal, degrees	67	65	62	67	61	61	59	60
Beamwidth, Vertical, degrees	12	10.7	9.8	7	5.9	5.2	4.6	4.3
Beam Tilt, degrees	2–14	2–14	2–14	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	17	16	21	17	16	16	14
Front-to-Back Ratio at 180°, dB	30	31	33	29	32	36	39	33
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	26	30	30	30	30
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	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1427–1518	1695–1920	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	15.1	15.6	15.9	15.9	17.5	18	18.7	18.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.3	±0.5	±0.7	±0.6	±0.4	±0.5
Gain by Beam Tilt, average, dBi	2° 15.1 8° 15.2 14° 14.9	2° 15.6 8° 15.8 14° 15.4	2° 15.9 8° 16.0 14° 15.5	2° 15.9 7° 15.9 12° 15.8	2° 17.3 7° 17.6 12° 17.4	2° 17.9 7° 18.2 12° 17.9	2° 18.6 7° 18.9 12° 18.4	2° 18.3 7° 18.5 12° 17.9
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.8	±2.5	±7.5	±3.5	±2.2	±4.1	±4.8
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.7	±0.6	±0.3	±0.5	±0.4	±0.3	±0.3
USLS, beampeak to 20° above	16	17	17	17	16	16	16	14

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beampeak, dB

Front-to-Back Total Power at 180° ± 30°, dB	24	24	24	23	27	27	29	28
CPR at Boresight, dB	19	20	23	16	19	22	22	21
CPR at Sector, dB	11	11	12	4	11	8	8	4

Mechanical Specifications

Wind Loading @ Velocity, frontal	301.0 N @ 150 km/h (67.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	638.0 N @ 150 km/h (143.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	456 mm 17.953 in
Depth, packed	357 mm 14.055 in
Length, packed	1975 mm 77.756 in
Weight, gross	36.5 kg 80.469 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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