

RRZZ-65B-R4N39-V1



8-port sector antenna, 4x 694–960 and 4x 1427–2690, 65° HPBW, 4x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Excellent wind loading characteristics

General Specifications

Antenna Type	Sector
Band	Multiband
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 Quantity, high band	0
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information

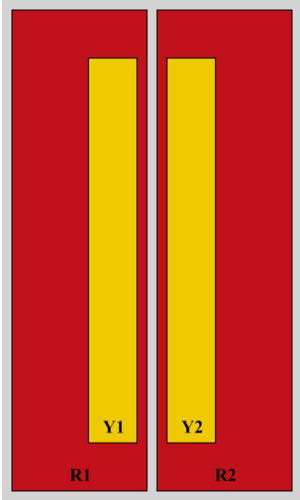
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (2)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

RRZZ-65B-R4N39-V1

Dimensions

Width	395 mm 15.551 in
Depth	228 mm 8.976 in
Length	2100 mm 82.677 in
Net Weight, antenna only	30.5 kg 67.241 lb

Array Layout

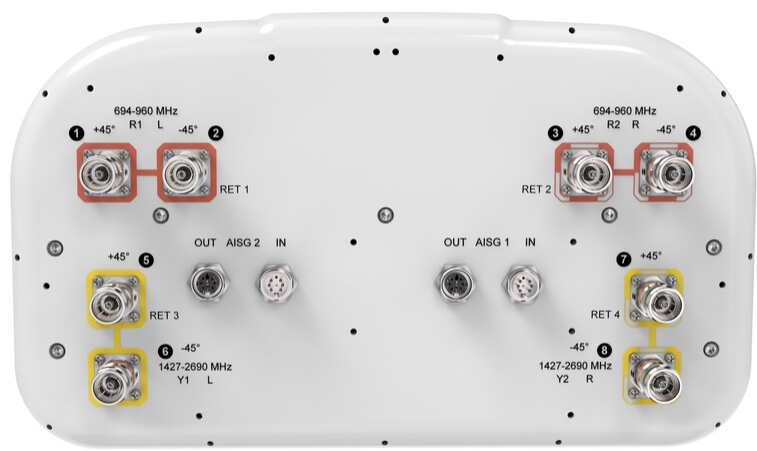


RF Connector	Array ID	Frequency (MHz)	RET (SRET)	AISG RET UID
1 - 2	R1	694-960	1	CPxxxxxxxxxxxxR1
3 - 4	R2	694-960	2	CPxxxxxxxxxxxxR2
5 - 6	Y1	1427-2690	3	CPxxxxxxxxxxxxY1
7 - 8	Y2	1427-2690	4	CPxxxxxxxxxxxxY2

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

Port Configuration

RRZZ-65B-R4N39-V1



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 1518 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,100 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	694–790	790–890	890–960	1427–1518	1695–1920	1920–2180	2300–2500	2490–2690
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8
Gain, dBi	14	15	15.3	16.1	17.8	18.2	18.6	18.7
Beamwidth, Horizontal, degrees	67	56	52	58	56	55	64	56
Beamwidth, Vertical, degrees	10.5	9.3	8.6	6.7	5.7	5.1	4.5	4.2
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	16	15	15	17	18	18	18
Front-to-Back Ratio at 180°, dB	32	31	30	33	34	30	27	29
CPR at Boresight, dB	23	22	20	18	19	17	15	13

RRZZ-65B-R4N39-V1

Isolation, Cross Polarization, dB	25	25	25	26	26	26	26	26
Isolation, Inter-band, dB	25	25	25	27	27	27	27	27
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	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	320.0 N @ 150 km/h (71.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	288.0 N @ 150 km/h (64.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	643.0 N @ 150 km/h (144.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	366.0 N @ 150 km/h (82.3 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	505 mm 19.882 in
Depth, packed	386 mm 15.197 in
Length, packed	2243 mm 88.307 in
Weight, gross	41.7 kg 91.933 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
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-F	–	Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.
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* Footnotes

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Performance Note Severe environmental conditions may degrade optimum performance

