RRZZ-65D-R4N39

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
- Retractable tilt indicator rods
- 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 Location	Bottom
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

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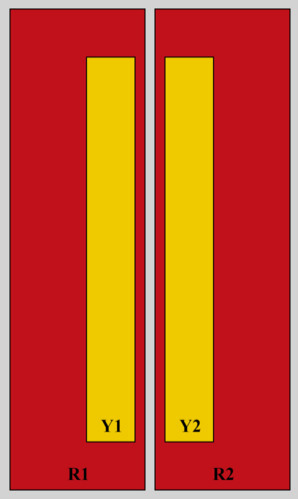
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	395 mm | 15.551 in
Depth	228 mm | 8.976 in
Length	2769 mm | 109.016 in

Array Layout



RF Connector	Array ID	Frequency (MHz)	RET (SRET)	AISG RET UID
1 - 2	R1	694-960	1	CPxxxxxxxxxxxxxxR1
3 - 4	R2	694-960	2	CPxxxxxxxxxxxxxxR2
5 - 6	Y1	1427-2690	3	CPxxxxxxxxxxxxxxY1
7 - 8	Y2	1427-2690	4	CPxxxxxxxxxxxxxxY2

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

Port Configuration

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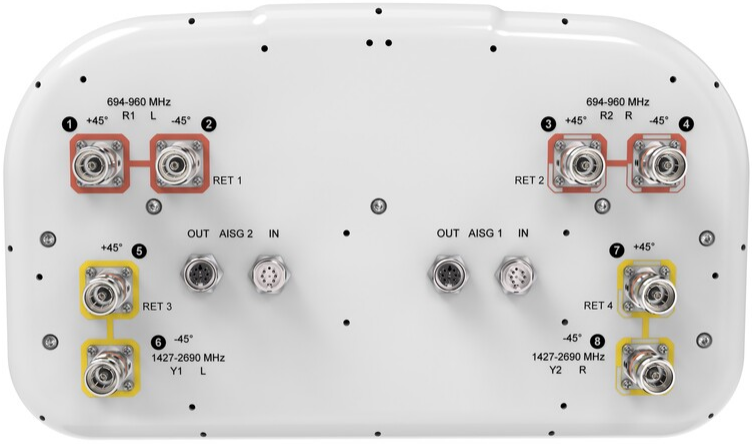

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 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	**698–806**	**790–894**	**890–960**	**1427–1518**	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8
Gain at Mid Tilt, dBi	14.8	15.6	16	15.6	17	17.4	18	18.5
Beamwidth, Horizontal, degrees	65	56	53	71	58	65	62	52
Beamwidth, Vertical, degrees	8.4	7.6	7.1	6.8	5.6	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	15	16	17	15	18	17	18	19
Front-to-Back Ratio at 180°, dB	30	30	30	30	30	30	29	30
Isolation, Cross Polarization, dB	25	25	25	26	26	26	26	26

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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	404.0 N @ 150 km/h (90.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	434.0 N @ 150 km/h (97.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	889.0 N @ 150 km/h (199.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	460.0 N @ 150 km/h (103.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	511 mm | 20.118 in
Depth, packed	392 mm | 15.433 in
Length, packed	2900 mm | 114.173 in
Weight, gross	53 kg | 116.845 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-4	–	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