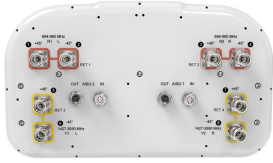


RRZZ-65A-R4N39



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
- 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, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information

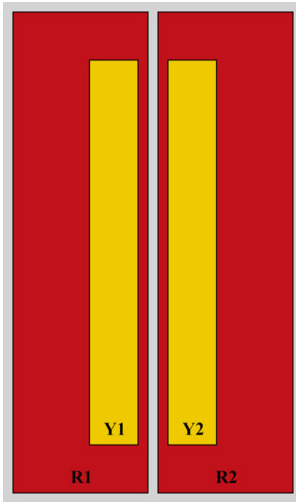
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (2)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

RRZZ-65A-R4N39

Dimensions

Width	395 mm 15.551 in
Depth	228 mm 8.976 in
Length	1499 mm 59.016 in
Net Weight, antenna only	23.5 kg 51.809 lb

Array Layout

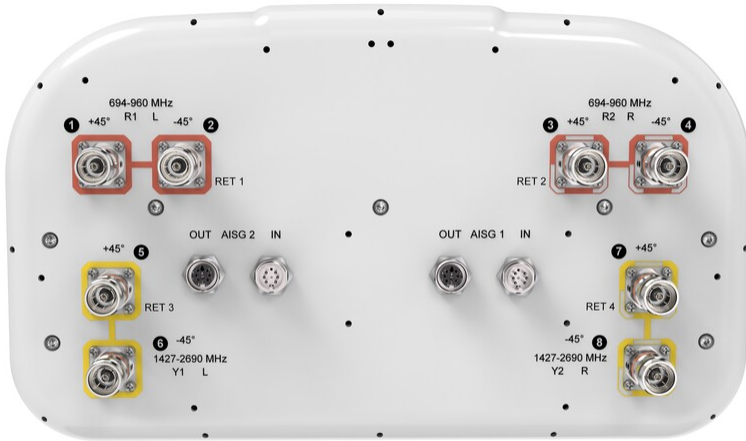


RF Connector	Array ID	Frequency (MHz)	RET (SRET)	AISG RET UID
1 - 2	R1	694-960	1	CPxxxxxxxxxxxxxxxxR1
3 - 4	R2	694-960	2	CPxxxxxxxxxxxxxxxxR2
5 - 6	Y1	1427-2690	3	CPxxxxxxxxxxxxxxxxY1
7 - 8	Y2	1427-2690	4	CPxxxxxxxxxxxxxxxxY2

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

Port Configuration

RRZZ-65A-R4N39



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 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	790–896	890–960	1427–1518	1695–1990	1920–2300	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 at Mid Tilt, dBi	12.3	13	13.3	15.3	16.7	17.5	18.3	18.3
Beamwidth, Horizontal, degrees	60	54	49	70	62	67	63	53
Beamwidth, Vertical, degrees	17.3	15.6	14.5	7.7	6.3	5.7	5	4.7
Beam Tilt, degrees	3–16	3–16	3–16	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	15	15	16	14	14	17	16
Front-to-Back Ratio at 180°, dB	28	26	25	30	33	31	30	30
Front-to-Back Total Power at 180° ± 30°, dB	18	19	19	23	25	26	24	25

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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	300	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	790–896	890–960	1427–1518	1695–1990	1920–2300	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	12.3	13	13.3	15.3	16.6	17.3	18.1	18.2
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±0.4	±0.4	±1	±0.6	±0.6	±0.4
Beamwidth, Horizontal Tolerance, degrees	±7	±4	±5	±8	±10	±11	±12	±4
Beamwidth, Vertical Tolerance, degrees	±1.6	±1.4	±1.1	±0.4	±0.5	±0.6	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	18	16	15	12	13	13	14	15
CPR at Boresight, dB	21	18	18	17	17	13	11	12
CPR at Sector, dB	5	5	5	8	4	4	6	1

Mechanical Specifications

Wind Loading @ Velocity, frontal	225.0 N @ 150 km/h (50.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	242.0 N @ 150 km/h (54.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	496.0 N @ 150 km/h (111.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	256.0 N @ 150 km/h (57.6 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	1643 mm 64.685 in
Weight, gross	35.7 kg 78.705 lb

Regulatory Compliance/Certifications

RRZZ-65A-R4N39

Agency

CHINA-ROHS

ISO 9001:2015

ROHS

UK-ROHS



Classification

Above maximum concentration value

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

Compliant/Exempted

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