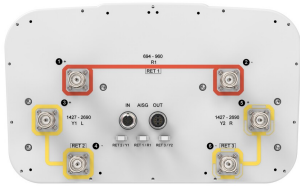


RZZ-65D-R3



6-port sector antenna, 2x 694-960, 4x 1427-2690 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
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

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	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

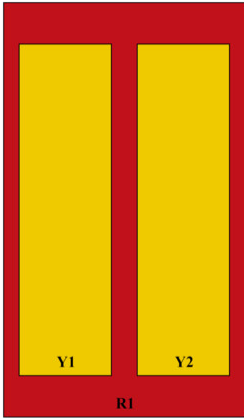
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (1) Mid band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

RZZ-65D-R3

Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2688 mm 105.827 in

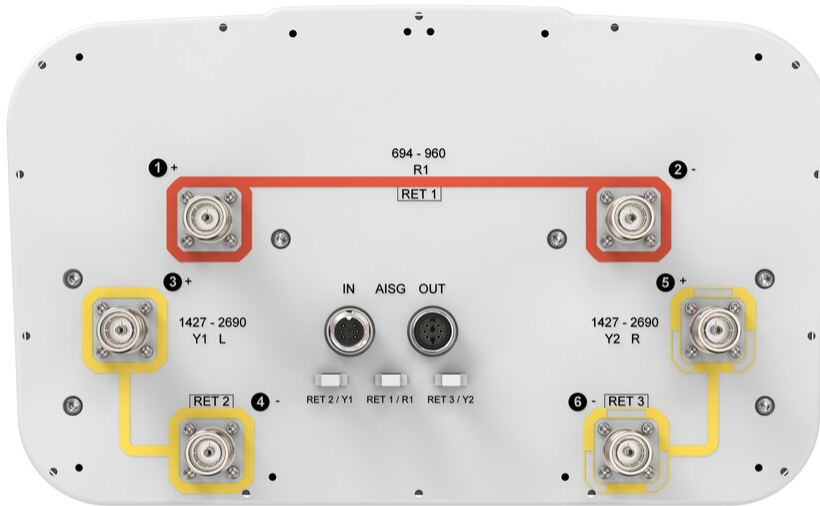
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPXXXXXXXXXXXXR1
Y1	1427-2690	3 - 4	2	AISG1	CPXXXXXXXXXXXXY1
Y2	1427-2690	5 - 6	3	AISG1	CPXXXXXXXXXXXXY2

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

Port Configuration



Electrical Specifications

RZZ-65D-R3

Impedance	50 ohm
Operating Frequency Band	1427 – 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	16.8	17.3	17.4	16.6	18	18.5	19	18.8
Beamwidth, Horizontal, degrees	67	65	64	71	61	60	62	58
Beamwidth, Vertical, degrees	8.4	7.5	6.8	7.1	5.9	5.3	4.6	4.3
Beam Tilt, degrees	0–10	0–10	0–10	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	20	23	18	19	19	15	16	16
Front-to-Back Ratio at 180°, dB	29	32	34	34	38	36	34	32
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	-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

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	16.6	17.1	17.2	16.4	17.8	18.2	18.6	18.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.3	±0.5	±0.4	±0.4	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.4	±0.5	±4.8	±2.7	±2.4	±4.3	±6.5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.3	±0.4	±0.4	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	15	17	16	16	17	15	16	15
Front-to-Back Total Power at 180° ± 30°, dB	26	26	25	25	30	27	28	26
CPR at Boresight, dB	16	17	18	18	22	19	23	23

RZZ-65D-R3

CPR at Sector, dB 10 10 10 9 11 5 6 5

Mechanical Specifications

Wind Loading @ Velocity, frontal	477.0 N @ 150 km/h (107.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	506.0 N @ 150 km/h (113.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	460 mm 18.11 in
Depth, packed	350 mm 13.78 in
Length, packed	2830 mm 111.417 in
Weight, gross	46.2 kg 101.853 lb
Weight, net	37.9 kg 83.555 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



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