

RRZZ-65A-R4N43



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

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Antenna shape optimized for wind load reduction
- Retractable tilt indicator rods

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

Remote Electrical Tilt (RET) Information

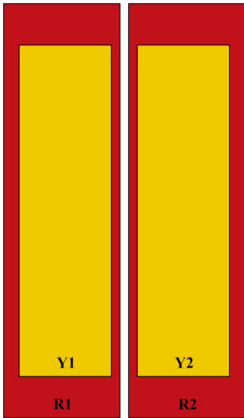
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (2)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

RRZZ-65A-R4N43

Width	430 mm 16.929 in
Depth	197 mm 7.756 in
Length	1599 mm 62.953 in
Net Weight, antenna only	26.27 kg 57.915 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxR2
Y1	1427-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxY1
Y2	1427-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxY2

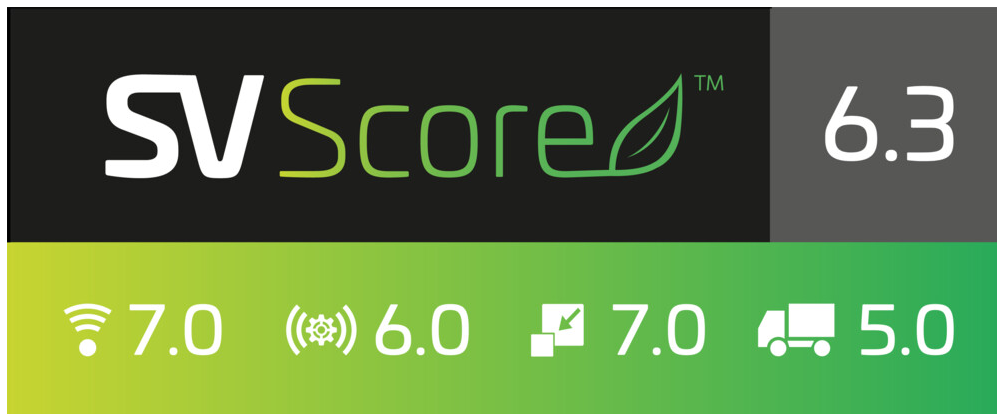
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

RRZZ-65A-R4N43



Logo Image



Electrical Specifications

RRZZ-65A-R4N43

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	694–790	790–890	890–960	1427–1518	1695–1920	1920–2180	2300–2500	2500–2690
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	13.6	14.1	14.6	16.1	17.7	18.5	19.1	19
Beamwidth, Horizontal, degrees	62	55	52	71	59	59	56	56
Beamwidth, Vertical, degrees	13.5	12.1	11.3	7.4	6.1	5.5	4.8	4.5
Beam Tilt, degrees	2–16	2–16	2–16	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	18	19	17	18	17	17	19
Front-to-Back Ratio at 180°, dB	29	29	32	33	35	35	35	33
Isolation, Cross Polarization, dB	25	25	25	26	26	26	26	26
Isolation, Inter-band, dB	25	25	25	26	26	26	26	26
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

	694–790	790–890	890–960	1427–1518	1695–1920	1920–2180	2300–2500	2500–2690
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	13.2	13.7	14.2	15.7	17.3	18.2	18.8	18.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.6	±0.5	±0.6	±0.8	±0.5	±0.4	±0.5
Beamwidth, Horizontal Tolerance, degrees	±7	±5	±5	±7	±8	±4	±3	±4
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.5	±0.6	±0.4	±0.4	±0.4	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB		18	18	15	16	16	17	19
Front-to-Back Total Power at	21	21	21	24	27	28	30	28

RRZZ-65A-R4N43

180° ± 30°, dB

CPR at Boresight, dB	20	19	18	16	21	17	18	17
CPR at Sector, dB	11	8	10	11	9	6	5	4

Mechanical Specifications

Wind Loading @ Velocity, frontal	376.0 N @ 150 km/h (84.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	203.0 N @ 150 km/h (45.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	594.0 N @ 150 km/h (133.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	243.0 N @ 150 km/h (54.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	1771 mm 69.724 in
Weight, gross	36.2 kg 79.807 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-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
-------------------------	---