

RRZHHTT-65A-R6N39



14-port sector antenna, 4x 694–960, 2x 1427–2690, 4x 1695–2180 and 4x 2490–2690 MHz, 65° HPBW, 6x 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
- Superior windloading capability by using 395mm width slim radome

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	10
RF Connector Quantity, low band	4
RF Connector Quantity, total	14

Remote Electrical Tilt (RET) Information

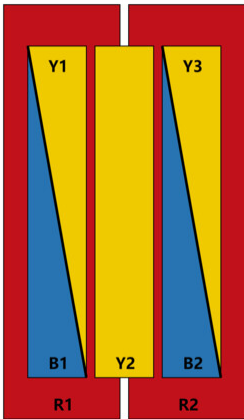
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

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Dimensions

Width	395 mm 15.551 in
Depth	228 mm 8.976 in
Length	1500 mm 59.055 in
Net Weight, antenna only	27.3 kg 60.186 lb

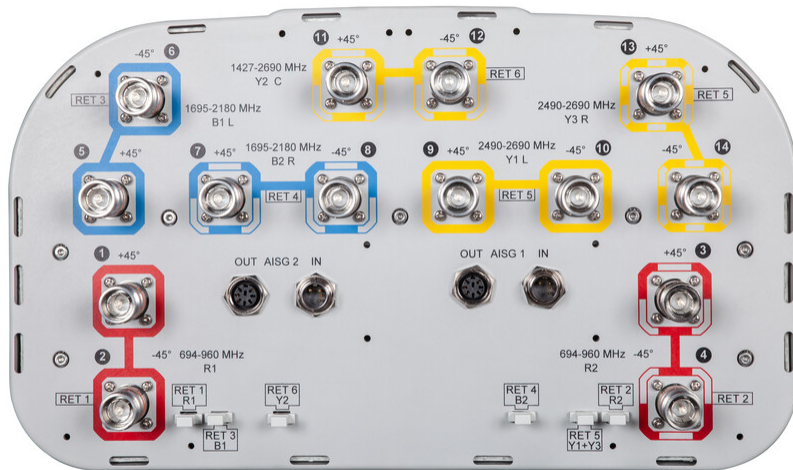
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2
B1	1695-2180	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxB2
Y1	2490-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxxxY1
Y3	2490-2690	13 - 14			
Y2	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxxxY2

(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 1695 – 2180 MHz 2490 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2	Y2	Y2	Y2	Y2	B1,B2	B1,B2	Y1,Y3
Frequency Band, MHz	698-806	790-896	890-960	1427-1518	1695-1990	1920-2300	2300-2500	2490-2690	1695-1990	1920-2180	2490-2690
RF Port	1-4	1-4	1-4	11,12	11,12	11,12	11,12	11,12	5-8	5-8	9,10,13,14
Gain at Mid Tilt, dBi	12.1	12.9	13.3	14.8	15.9	17.1	18.1	18	15.8	16.6	17.5
Beamwidth, Horizontal, degrees	63	56	56	59	60	54	49	51	69	65	55
Beamwidth, Vertical, degrees	16.9	15	13.9	8.4	7.3	6.5	5.6	5.2	6.7	6.2	5
Beam Tilt, degrees	3-16	3-16	3-16	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	19	19	17	16	16	18	19	16	17	19
Front-to-Back Ratio at 180°, dB	26	28	29	33	29	31	35	27	29	30	27
Front-to-Back Total Power at 180° ± 30°, dB	18	20	21	26	23	24	28	28	23	24	22
CPR at Boresight, dB	23	23	23	14	16	16	23	16	18	20	22
CPR at Sector, dB	8	6	8	8	5	4	2	-1	4	3	1
Isolation, Cross Polarization, dB	25	25	25	26	26	26	26	26	26	26	26

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Isolation, Inter-band, dB	25	25	25	27	27	27	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	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	150	250	250	150

Mechanical Specifications

Wind Loading @ Velocity, frontal	297.0 N @ 150 km/h (66.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	253.0 N @ 150 km/h (56.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	612.0 N @ 150 km/h (137.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	307.0 N @ 150 km/h (69.0 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	42.3 kg 93.255 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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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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