

RRZZHHTT65BR6MR



16-port sector antenna, 4x 694–960, 4x 1427–2690, 4x 1695–2180 and 4x 2490–2690 MHz, 65° HPBW, 6x RET

- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- New endcap designs provide improved wind loading performance
- All internal RET actuators are connected in “Cascaded MRET” configuration

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 Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

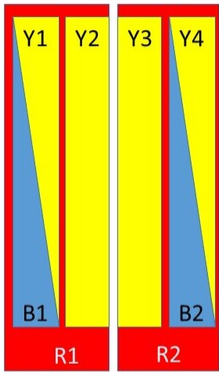
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Multi-RET)

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Dimensions

Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2100 mm 82.677 in
Net Weight, antenna only	42.3 kg 93.255 lb

Array Layout

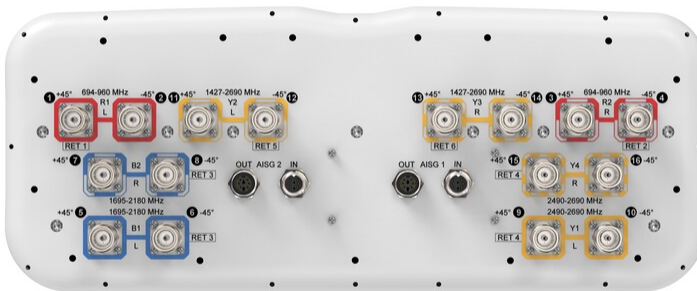


Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	7-8		
Y1	2490-2690	9-10	4	CPxxxxxxxxxxxxxxxxY1
Y4	2490-2690	15-16		
Y2	1427-2690	11-12	5	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	13-14	6	CPxxxxxxxxxxxxxxxxY3

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

Left Right
Bottom

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	B1,B2	Y1,Y4	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	694–790	790–890	890–960	1695–2180	2490–2690	1427–1518	1695–2180	2300–2690
RF Port	1-4	1-4	1-4	5-8	9,10,15,16	11-14	11-14	11-14
Gain, dBi	14.9	15.4	15.6	18.1	18.6	15.1	17	17.5
Beamwidth, Horizontal, degrees	71	65	62	64	60	66	62	57
Beamwidth, Vertical, degrees	10.4	9.2	8.3	5.2	4.1	9.3	7.3	5.6
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	16	17	24	20	19	22
Front-to-Back Ratio at 180°, dB	32	33	31	33	29	33	35	32
Isolation, Cross Polarization, dB	28	28	28	28	28	26	27	26
Isolation, Inter-band, dB	28	28	28	28	28	27	27	28
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	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	150	250	250	200

Electrical Specifications, BASTA

	694–790	790–890	890–960	1695–2180	2490–2690	1427–1518	1695–2180	2300–2690
Gain by all Beam Tilts, average, dBi	14.7	15.1	15.3	17.6	18.2	14.7	16.4	17.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3	±0.9	±0.4	±0.5	±0.8	±0.6
Beamwidth, Horizontal Tolerance, degrees	±7	±4	±4	±7	±3	±6	±6	±6
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.5	±0.5	±0.2	±0.6	±0.9	±0.5

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USLS, beampeak to 20° above beampeak, dB	15	16	16	16	17	16	18	17
Front-to-Back Total Power at 180° ± 30°, dB	22	22	20	26	22	22	28	27
CPR at Boresight, dB	21	21	18	20	20	18	17	17
CPR at Sector, dB	15	10	10	7	6	7	8	4

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.68 m ² 7.319 ft ²
Effective Projective Area (EPA), lateral	0.21 m ² 2.26 ft ²
Wind Loading @ Velocity, frontal	720.0 N @ 150 km/h (161.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	220.0 N @ 150 km/h (49.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	864.0 N @ 150 km/h (194.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	496.0 N @ 150 km/h (111.5 lbf @ 150 km/h)
Wind Speed, maximum	288 km/h (179 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2287 mm 90.039 in
Weight, gross	56.8 kg 125.222 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.
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* Footnotes

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Performance Note

Severe environmental conditions may degrade optimum performance