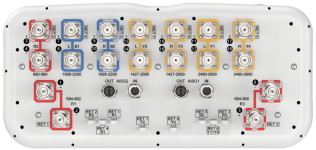
EGRZZHHTT-65BR8N43



18-port sector antenna, 2x 694–862, 2x 880-960, 2x 694–960, 4x 1427–2690, 4x 1695-2200 and 4x 2490-2690 MHz, 65° HPBW, 8x 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
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	6
RF Connector Quantity, total	18

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 (3) | Mid band (5)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	430 mm | 16.929 in
Depth	197 mm | 7.756 in

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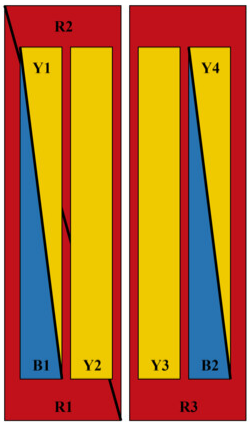
Length	2100 mm | 82.677 in
Net Weight, antenna only	46.5 kg | 102.515 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-862	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1
R2	880-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxR2
R3	694-960	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxR3
B1	1695-2200	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxB1
B2	1695-2200	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxxB2
Y1	2490-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxxY1
Y4	2490-2690	17 - 18			
Y2	1427-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxxxY2
Y3	1427-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxxxY3

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

Port Configuration

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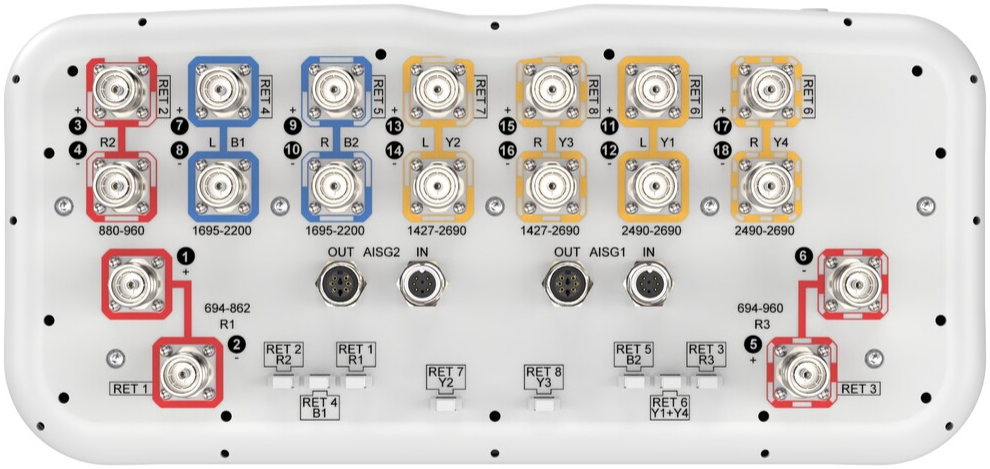

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2200 MHz | 2490 – 2690 MHz | 694 – 862 MHz | 694 – 960 MHz | 880 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,200 W @ 50 °C

Electrical Specifications

	R1	R1	R2	R3	R3	R3
Frequency Band, MHz	**698–806**	**790–862**	**880–960**	**698–806**	**790–894**	**890–960**
RF Port	1,2	1,2	3,4	5,6	5,6	5,6
Gain at Mid Tilt, dBi	14	14.4	14.7	14.3	15	15.2

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Beamwidth, Horizontal, degrees	70	62	58	69	61	58
Beamwidth, Vertical, degrees	10.5	9.8	8.6	10.6	9.4	8.6
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	17	15	16	16	15
Front-to-Back Ratio at 180°, dB	30	31	32	29	30	31
Isolation, Cross Polarization, dB	27	27	27	27	27	27
Isolation, Inter-band, dB	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
PIM, 3rd Order, typical, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	300

Electrical Specifications

	Y2,Y3	**Y2,Y3**	**Y2,Y3**	**Y2,Y3**	**Y2,Y3**	**B1,B2**	**B1,B2**	**Y1,Y4**
Frequency Band, MHz	**1427–1518**	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**	**1695–1995**	**1920–2180**	**2490–2690**
RF Port	13-16	13-16	13-16	13-16	13-16	7-10	7-10	11,12,17,18
Gain at Mid Tilt, dBi	15.4	16.3	17.4	18.1	18.1	16.7	17.5	17.6
Beamwidth, Horizontal, degrees	71	67	63	61	58	68	61	59
Beamwidth, Vertical, degrees	6.8	5.6	5.1	4.6	4.4	5.4	5	4.2
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	16	17	19	17	15	17	19
Front-to-Back Ratio at 180°, dB	28	35	33	32	31	32	29	31
Isolation, Cross Polarization, dB	25	26	26	26	26	26	26	26
Isolation, Inter-band, dB	25	26	26	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, typical, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	250	250	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)

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Wind Loading @ Velocity, lateral	266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 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	2270 mm | 89.37 in
Weight, gross	58.7 kg | 129.411 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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

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