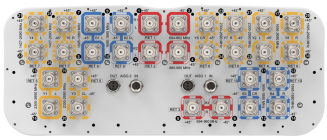
EGRZZH4T4VV-DR10V1



30-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 694-960 (R3), 4x 1427-2690 (Y4/Y6), 8x 1695-1880 (B1-B4), 8x 2300-2690 (Y1 /Y3/Y5/Y7) & 4x 1695-2690 (Y2&Y8) MHz, 65° HPBW, 10x 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

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
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	24
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	6
RF Connector Quantity, total	30

Remote Electrical Tilt (RET) Information

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 (7) | Low band (3)
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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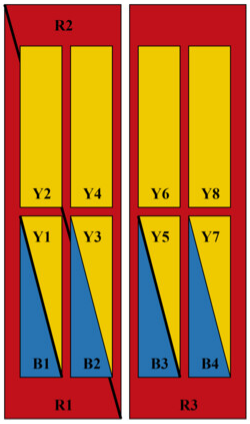
Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2688 mm | 105.827 in
Net Weight, antenna only	67.5 kg | 148.812 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-862	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	880-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
R3	694-960	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxR3
Y2	1695-2690	17 - 18	4	AISG1	CPxxxxxxxxxxxxxxY2
Y1	2300-2690	15 - 16	5	AISG1	CPxxxxxxxxxxxxxxY1
Y3	2300-2690	19 - 20			
Y5	2300-2690	23 - 24	6	AISG1	CPxxxxxxxxxxxxxxY5
Y7	2300-2690	27 - 28			
Y4	1427-2690	21 - 22	7	AISG1	CPxxxxxxxxxxxxxxY4
Y6	1427-2690	25 - 26			
Y8	1695-2690	29 - 30	8	AISG1	CPxxxxxxxxxxxxxxY8
B1	1695-1880	7 - 8	9	AISG1	CPxxxxxxxxxxxxxxB1
B2	1695-1880	9 - 10			
B3	1695-1880	11 - 12	10	AISG1	CPxxxxxxxxxxxxxxB3
B4	1695-1880	13 - 14			

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

Port Configuration

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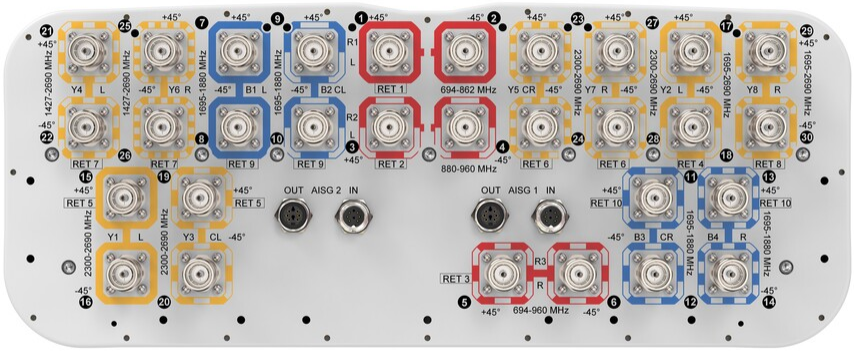

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 1880 MHz | 1695 – 2690 MHz | 2300 – 2690 MHz | 694 – 862 MHz | 694 – 960 MHz | 880 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1/R3	R2/R3	Y4/Y6	B1-B4
Frequency Band, MHz	**694–862**	**880–960**	**1427–1518**	**1695–1880**
RF Port	1,2,5,6	3-6	21,22,25,26	7-14
Gain, dBi	15.8	16.1	15.2	15.4
Beamwidth, Horizontal, degrees	69	64	70	69
Beamwidth, Vertical, degrees	8.6	7.5	9.4	7.3
Beam Tilt, degrees	2–14	2–14	2–12	2–12
USLS (First Lobe), dB	17	17	20	19
Front-to-Back Ratio at 180°, dB	32	29	34	32
Isolation, Cross Polarization, dB	28	28	25	25
Isolation, Inter-band, dB	28	28	25	25
VSWR | Return loss, dB	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
Input Power per Port at 50°C,	200	200	200	200

maximum, watts

Electrical Specifications

	Y1/Y3/Y5/Y7	Y1/Y3/Y5/Y7	Y2/Y4/Y6/Y8	Y2/Y4/Y6/Y8
Frequency Band, MHz	**2300–2400**	**2490–2690**	**1695–2180**	**2490–2690**
RF Port	15,16,19,20,23,24,27,28	15,16,19,20,23,24,27,28	17,18,21,22,25,26,29,30	17,18,21,22,25,26,29,30
Gain, dBi	16.9	17.4	17	17.8
Beamwidth, Horizontal, degrees	58	57	62	56
Beamwidth, Vertical, degrees	5.7	5.2	7.2	5.4
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	21	16	17
Front-to-Back Ratio at 180°, dB	32	28	33	31
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR | Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	200	150	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm | 22.244 in
Depth, packed	309 mm | 12.165 in
Length, packed	2935 mm | 115.551 in
Weight, gross	88.5 kg | 195.109 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

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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.
BSAMNT-M4	–	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance