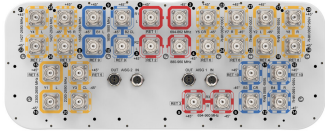


EGRZZH4T4VV-DR10V1



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, low band	6
RF Connector Quantity, total	30

Remote Electrical Tilt (RET) Information

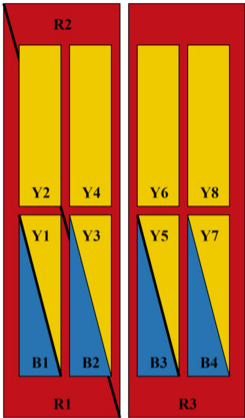
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (7) Low band (3)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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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

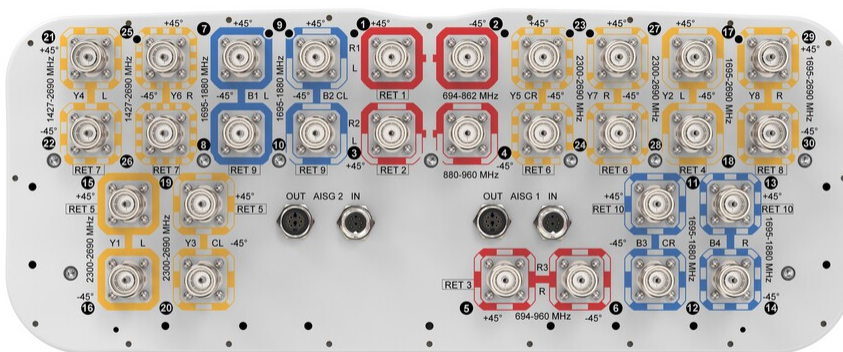
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-862	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	880-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2
R3	694-960	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxR3
Y2	1695-2690	17 - 18	4	AISG1	CPxxxxxxxxxxxxxxxxY2
Y1	2300-2690	15 - 16	5	AISG1	CPxxxxxxxxxxxxxxxxY1
Y3	2300-2690	19 - 20			
Y5	2300-2690	23 - 24	6	AISG1	CPxxxxxxxxxxxxxxxxY5
Y7	2300-2690	27 - 28			
Y4	1427-2690	21 - 22	7	AISG1	CPxxxxxxxxxxxxxxxxY4
Y6	1427-2690	25 - 26			
Y8	1695-2690	29 - 30	8	AISG1	CPxxxxxxxxxxxxxxxxY8
B1	1695-1880	7 - 8	9	AISG1	CPxxxxxxxxxxxxxxxxB1
B2	1695-1880	9 - 10			
B3	1695-1880	11 - 12	10	AISG1	CPxxxxxxxxxxxxxxxxB3
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, maximum, watts	200	200	200	200

Electrical Specifications, BASTA

	694–862	880–960	1427–1518	1695–1880
Frequency Band, MHz	694–862	880–960	1427–1518	1695–1880
Gain by all Beam Tilts, average, dBi	15.3	15.6	14.9	15
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.7	±0.4	±0.5
Beamwidth, Horizontal Tolerance, degrees	±7.1	±3	±5.7	±8
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.5	±0.4	±0.6
USLS, beampeak to 20° above beampeak, dB	15	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	22	22	26	26
CPR at Boresight, dB	19	16	21	20

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CPR at Sector, dB	9	11	3	8
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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

Electrical Specifications, BASTA

	2300–2400	2490–2690	1695–2180	2490–2690
Frequency Band, MHz	2300–2400	2490–2690	1695–2180	2490–2690
Gain by all Beam Tilts, average, dBi	16.6	16.9	16.2	17.3
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.8	±1	±0.6
Beamwidth, Horizontal Tolerance, degrees	±3.7	±5.7	±9.5	±3.8
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.9	±0.3
USLS, beampeak to 20° above beampeak, dB	13	14	16	15
Front-to-Back Total Power at 180° ± 30°, dB	25	23	26	26
CPR at Boresight, dB	19	19	20	20
CPR at Sector, dB	6	4	5	2

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)

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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	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.
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
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