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26-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 694-960 (R3), 4x 1427-2690 (Y3/Y5), 4x 1695-1880 (B1-B2), 4x 2300-2690 (Y1&Y7) & 8x 1695-2690 (Y2/Y4/Y6/Y8) MHz, 65° HPBW, 8x RET.

- All Internal RET actuators are connected in “Cascaded SRET” configuration

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 | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
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	20
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	6
RF Connector Quantity, total	26

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v1 | CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	1 female | 1 male
Input Voltage	10–30 Vdc
Internal RET	High band (5) | Low band (3)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	9 W
Protocol	3GPP/AISG 2.0 (Single RET)

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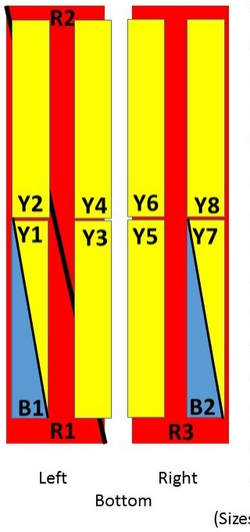
Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2688 mm | 105.827 in
Net Weight, without mounting kit	67.6 kg | 149.032 lb

Array Layout



Array	Freq (MHz)	Conns	RET(SRET)	AISG RET UID
R1	694-862	1-2	1	CPxxxxxxxxxxxxxxR1
R2	880-960	3-4	2	CPxxxxxxxxxxxxxxR2
R3	694-960	5-6	3	CPxxxxxxxxxxxxxxR3
B1	1695-1880	7-8	4	CPxxxxxxxxxxxxxxB1
B2	1695-1880	9-10		
Y1	2300-2690	11-12	5	CPxxxxxxxxxxxxxxY1
Y7	2300-2690	23-24		
Y3	1427-2690	15-16	6	CPxxxxxxxxxxxxxxY3
Y5	1427-2690	19-20		
Y2	1695-2690	13-14	7	CPxxxxxxxxxxxxxxY2
Y4	1695-2690	17-18		
Y6	1695-2690	21-22	8	CPxxxxxxxxxxxxxxY6
Y8	1695-2690	25-26		

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

Port Configuration

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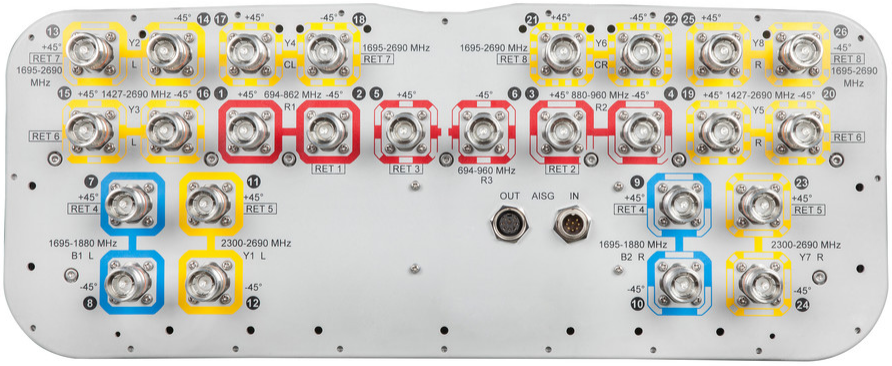

Electrical Specifications

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	R2	R3	B1-B2	Y1&Y7	Y1&Y7	Y2-Y6/Y8	Y2-Y6/Y8	Y3/Y5
Frequency Band, MHz	**694–862**	**880–960**	**694–960**	**1695–1880**	**2300–2400**	**2490–2690**	**1695–2180**	**2490–2690**	**1427–1518**
Gain, dBi	15.4	15.7	16.2	15.7	17.4	17.6	17	17.9	15.4
Beamwidth, Horizontal, degrees	68	64	67	69	58	55	64	57	65
Beamwidth, Vertical, degrees	8.5	7.3	8.1	7.3	5.8	5.3	7.1	5.3	9.5
Beam Tilt, degrees	2–14	2–14	2–14	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	21	18	17	17	19	17	21	20
Front-to-Back Ratio at 180°, dB	31	27	28	32	29	29	33	32	35
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25	25

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Isolation, Inter-band, dB	28	28	28	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50° C, maximum, watts	200	200	200	200	200	150	200	200	200

Mechanical Specifications

Mechanical Tilt Range	2°–12°
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	88.6 kg | 195.329 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.

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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance