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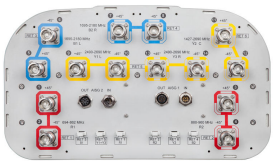

14-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 1427-2690 (Y2), 4x 1695-2180 (B1-B2), 4x 2490-2690 (Y1 & Y3) MHz, 65° HPBW, 6x RET. Y1 & Y3 share a common RET

- 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

This product will be discontinued on: March 30, 2024

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Isolation, Intersystem, dB for 1427-1518 MHz, spec 1427-1496 MHz is better than 28dB and 1496-1518 MHz is better than 27dB | 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, high band	10
RF Connector Quantity, low band	4
RF Connector Quantity, total	14

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	High band (4) | Low band (2)

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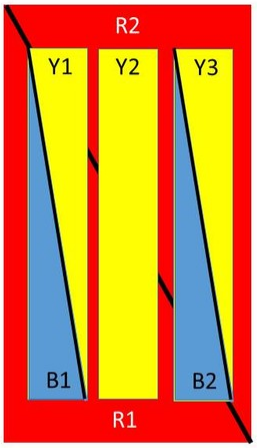
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	395 mm | 15.551 in
Depth	228 mm | 8.976 in
Length	1500 mm | 59.055 in
Net Weight, without mounting kit	30 kg | 66.139 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-862	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	880-960	3-4	2	CPxxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxxB1
B2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxxY1
Y3	2490-2690	13-14		
Y2	1427-2690	11-12	6	CPxxxxxxxxxxxxxxxY2

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

Port Configuration

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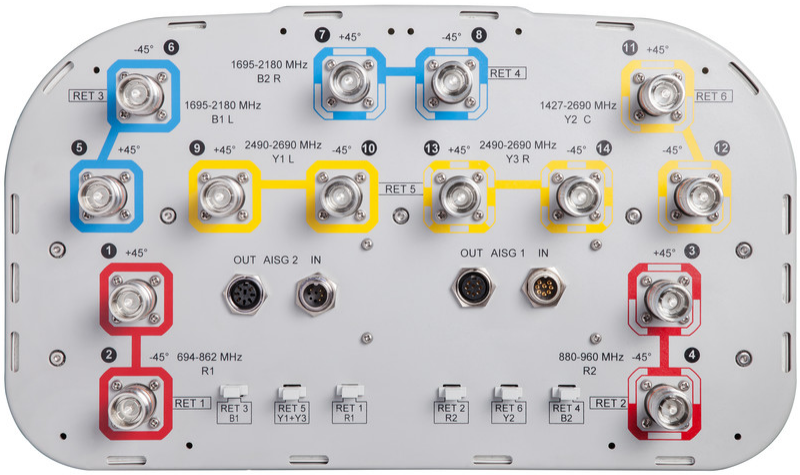

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 694 – 862 MHz | 880 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

	R1	R2	B1&B2	B1&B2	Y1&Y3	Y2	Y2	Y2
Frequency Band, MHz	**694–862**	**880–960**	**1695–1880**	**1920–2180**	**2490–2690**	**1427–1518**	**1695–2180**	**2490–2690**
Gain, dBi	13.7	13.8	16.6	17.4	17.2	15.2	17.3	17.2
Beamwidth, Horizontal, degrees	66	64	69	64	61	71	63	59
Beamwidth, Vertical, degrees	16.2	13.8	6.9	6.2	5.1	9.3	7.4	5.5
Beam Tilt, degrees	2–17	2–17	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	21	19	17	19	17	16	15	15
Front-to-Back Ratio at 180°, dB	32	32	30	32	29	29	36	29
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28

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Isolation, Inter-band, dB	28	28	28	28	28		28	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	250	250	150	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	**694–862**	**880–960**	**1695–1880**	**1920–2180**	**2490–2690**	**1427–1518**	**1695–2180**	**2490–2690**
Gain by all Beam Tilts, average, dBi	13.3	13.5	16.3	16.9	16.8	14.8	16.5	16.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.5	±0.6	±0.7	±0.5	±1.2	±0.8
Gain by Beam Tilt, average, dBi	2 ° | 13.1 10 ° | 13.5 17 ° | 13.2	2 ° | 13.2 10 ° | 13.7 17 ° | 13.4	2 ° | 16.0 7 ° | 16.4 12 ° | 16.2	2 ° | 16.5 7 ° | 17.1 12 ° | 16.8	2 ° | 16.4 7 ° | 17.1 12 ° | 16.5	2 ° | 14.8 7 ° | 14.9 12 ° | 14.7	2 ° | 16.3 7 ° | 16.6 12 ° | 16.5	2 ° | 16.5 7 ° | 16.9 12 ° | 16.5
Beamwidth, Horizontal Tolerance, degrees	±2.7	±1.9	±3.5	±5.8	±6.1	±4.0	±8.6	±5.6
Beamwidth, Vertical Tolerance, degrees	±1.7	±0.8	±0.3	±0.4	±0.3	±0.5	±0.9	±0.3
USLS, beampeak to 20° above beampeak, dB		19	13	17	15	16	15	14
Front-to-Back Total Power at 180° ± 30°, dB	25	22	23	25	24	26	29	25
CPR at Boresight, dB	17	15	17	18	18	12	20	25
CPR at Sector, dB	10	8	7	7	11	8	7	3

Mechanical Specifications

Mechanical Tilt Range	0°–18°
Wind Loading @ Velocity, frontal	289.0 N @ 150 km/h (65.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	209.0 N @ 150 km/h (47.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	495.0 N @ 150 km/h (111.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	297.0 N @ 150 km/h (66.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	505 mm | 19.882 in
Depth, packed	386 mm | 15.197 in
Length, packed	1643 mm | 64.685 in

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Weight, gross	45 kg | 99.208 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance