

6-port sector antenna, 2x 694–960, 2x 1427-2690 and 2x 1695–2690 MHz, 65° HPBW, 3x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

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

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 4

RF Connector Quantity, low band 2

RF Connector Quantity, total 6

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v1

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 (2) | Low band (1)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 350 mm | 13.78 in

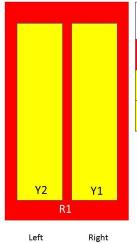
COMMSCOPE®

Depth

Length 1828 mm | 71.969 in

Net Weight, without mounting kit 23 kg | 50.706 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxXR1
Y1	1427-2690	3-4	2	CPxxxxxxxxxxxxXY1
Y2	1695-2690	5-6	3	CPxxxxxxxxxxxxxY2

208 mm | 8.189 in

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum $800 \text{ W} @ 50 ^{\circ}\text{C}$

Electrical Specifications

Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695–192	0 1920-218	0 2300–250	0 2500-2690
Gain, dBi	15.3	15.8	16	16.2	17.9	18.4	19	18.8
Beamwidth, Horizontal, degrees	67	65	62	67	61	61	59	60
Beamwidth, Vertical, degrees	12	10.7	9.8	7	5.9	5.2	4.6	4.3
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	16	21	17	16	16	14
Front-to-Back Ratio at 180°, dB	30	31	33	29	32	36	39	33
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	26	30	30	30	30
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	300	250	250	250	200	200

Electrical Specifications, BASTA

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Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695-192	0 1920-218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	15.1	15.6	15.9	15.9	17.5	18	18.7	18.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.3	±0.5	±0.7	±0.6	±0.4	±0.5
Gain by Beam Tilt, average, dBi	2° 15.1 8° 15.2 14° 14.9	2 ° 15.6 8 ° 15.8 14 ° 15.4	2° 15.9 8° 16.0 14° 15.5	2 ° 15.9 7 ° 15.9 12 ° 15.8	2 ° 17.3 7 ° 17.6 12 ° 17.4	2° 17.9 7° 18.2 12° 17.9	2° 18.6 7° 18.9 12° 18.4	2° 18.3 7° 18.5 12° 17.9
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.8	±2.5	±7.5	±3.5	±2.2	±4.1	±4.8
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.7	±0.6	±0.3	±0.5	±0.4	±0.3	±0.3
USLS, beampeak to 20° above	16	17	17	17	16	16	16	14

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beampeak, dB								
Front-to-Back Total Power at 180° ± 30°, dB	24	24	24	23	27	27	29	28
CPR at Boresight, dB	19	20	23	16	19	22	22	21
CPR at Sector, dB	11	11	12	4	11	8	8	4

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 301.0 N @ 150 km/h (67.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 638.0 N @ 150 km/h (143.4 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
 456 mm | 17.953 in

 Depth, packed
 357 mm | 14.055 in

 Length, packed
 1975 mm | 77.756 in

 Weight, gross
 36.5 kg | 80.469 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-3 – 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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