

10-port sector antenna, 4x 694–960 and 6x 1695–2690 MHz, 65° HPBW, 5x 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

This product will be discontinued on: November 30, 2024

General Specifications

Band

Antenna Type Sector

Grounding TypeRF connector inner conductor and body grounded to reflector and

Multiband

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 LocationBottom

RF Connector Quantity, high band 6
RF Connector Quantity, low band 4
RF Connector Quantity, total 10

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 (3) | Low band (2)

Power Consumption, idle state, maximum $1~\rm W$ Power Consumption, normal conditions, maximum $8~\rm W$

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

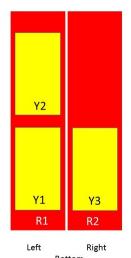
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2688 mm | 105.827 in

Net Weight, without mounting kit 43.2 kg | 95.24 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxXY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxXY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxXY3

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

Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 1,800 W @ 50 $^{\circ}$ C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	880-960	1695-188	0 1850-199	0 1920-218	0 2300-250	0 2500-2690
Gain, dBi	15.8	16.4	16.8	17	17.6	17.8	18.3	17.8
Beamwidth, Horizontal, degrees	70	67	62	59	60	61	61	69
Beamwidth, Vertical, degrees	8.1	7.4	6.8	7.5	7	6.6	5.7	5.3

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Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	12	16	17	20	20	20	18	16
Front-to-Back Ratio at 180°, dB	32	32	33	37	38	36	34	33
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	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	350	350	350	300	300	300	250	250

Electrical Specifications, BASTA

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Frequency Band, MHz	694-790	790-890	880-960	1695-188	0 1850–199	0 1920-218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	15.5	16.2	16.6	16.5	17.2	17.4	17.8	17.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.3	±0.9	±0.5	±0.6	±0.6	±0.7
Gain by Beam Tilt, average, dBi	2° 15.5 7° 15.6 12° 15.4	2° 16.1 7° 16.3 12° 16.0	2° 16.5 7° 16.7 12° 16.3	2° 16.3 7° 16.6 12° 16.4	2° 16.8 7° 17.3 12° 17.2	2° 16.9 7° 17.5 12° 17.5	2° 17.3 7° 17.9 12° 17.8	2° 16.8 7° 17.4 12° 17.1
Beamwidth, Horizontal Tolerance, degrees	±4.4	±2.9	±4.6	±3.7	±1.6	±2.3	±6.4	±6.3
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.6	±0.4	±0.5	±0.3	±0.5	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	12	15	16	13	15	16	15	13
Front-to-Back Total Power at 180° ± 30°, dB	21	21	22	30	32	29	28	27
CPR at Boresight, dB	25	25	25	18	22	22	17	17
CPR at Sector, dB	8	5	7	8	10	9	8	5

Mechanical Specifications

Mechanical Tilt Range 0°-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)

COMMSCOPE®

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
 64.1 kg | 141.316 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

