

12-port sector antenna, 4x 694–960 and 8x 1695-2690 MHz, 65° HPBW, 6x 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
- 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 TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

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)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 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 1848 mm | 72.756 in

Net Weight, without mounting kit 36.5 kg | 80.469 lb

Array Layout



0000	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
	R1	694-960	1-2	1	CPxxxxxxxxxxxxxR1
	R2	694-960	3-4	2	CPxxxxxxxxxxxxxR2
	Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxXY1
	Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxXY2
	Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxXY3
	Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxY4

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

Port Configuration

Bottom

Right

Left



Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	694-790	790-890	880-960	1695-1920	1920-2180	2300-2500	2500-2690
Gain, dBi	14.1	14.5	14.7	16.4	17.5	18	17.9
Beamwidth, Horizontal, degrees	70	65	62	68	61	59	58
Beamwidth, Vertical, degrees	11.5	10.3	9.4	7.4	6.6	5.8	5.5
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	19	18	17	17	19	17
Front-to-Back Ratio at 180°, dB	34	31	28	33	33	32	30
Isolation, Cross Polarization, dB	27	27	27	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27	27	27	27
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	300	300	300	250	250	200	200
maximum, watts							

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1695-1920	1920-2180	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	13.7	14.2	14.4	15.9	16.9	17.6	17.4
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.4	±0.7	±0.8	±0.5	±0.5
Gain by Beam Tilt, average, dBi	2° 13.9 8° 13.8 14° 13.4	2° 14.3 8° 14.3 14° 13.8	2 ° 14.6 8 ° 14.5 14 ° 14.0	2° 15.6 7° 16.0 12° 15.8	2° 16.6 7° 17.1 12° 16.9	2° 17.4 7° 17.9 12° 17.3	2° 17.0 7° 17.6 12° 17.4
Beamwidth, Horizontal Tolerance, degrees	±7.1	±3.8	±3.2	±4.4	±5.6	±4.3	±5.2
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.7	±0.7	±0.5	±0.5	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	19	17	17	15	16	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	21	21	27	26	27	25
CPR at Boresight, dB	20	21	22	17	20	18	19
CPR at Sector, dB	13	11	14	7	6	8	6

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.65 \text{ m}^2 \mid 6.997 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.22 \text{ m}^2 \mid 2.368 \text{ ft}^2$ Mechanical Tilt Range $0^{\circ}-17^{\circ}$

 Wind Loading @ Velocity, frontal
 694.0 N @ 150 km/h (156.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 235.0 N @ 150 km/h (52.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 571.0 N @ 150 km/h (128.4 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 2034 mm | 80.079 in

COMMSCOPE®

Weight, gross 50.7 kg | 111.774 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-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

