

8-port sector antenna, 4x 694-960 and 4x 1695-2690 MHz, 65° HPBW, 4x 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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

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

Remote Electrical Tilt (RET) Information

RET Hardware 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 (2) | 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

Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 1828 mm | 71.969 in

Net Weight, without mounting kit 35.5 kg | 78.264 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	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxY2

Right Bottom

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

Port Configuration



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	890-960	1695-188	0 1850-199	0 1920-218	0 2300-250	0 2500-2690
Gain, dBi	14.6	15	15.2	18.6	18.7	18.9	19.3	19.3
Beamwidth, Horizontal, degrees	69	66	61	58	60	61	59	65
Beamwidth, Vertical, degrees	11.7	10.5	9.7	5.5	5.2	5	4.4	4.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	17	19	20	22	23	22
Front-to-Back Ratio at 180°, dB	32	33	33	37	39	38	33	33
Isolation, Cross Polarization, dB	25	25	25	27	27	27	27	27
Isolation, Inter-band, dB	25	25	25	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	1.5 14.0

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

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-1880 1850-1990 1920-2180 2300-2500 2500-2690					
Gain by all Beam Tilts, average, dBi	14.3	14.7	15	18.2	18.5	18.7	19	18.9	
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4	±0.6	±0.2	±0.3	±0.4	±0.4	
Gain by Beam Tilt, average, dBi	2° 14.3 7° 14.4 12° 14.2	2° 14.8 7° 14.9 12° 14.5	2° 15.1 7° 15.2 12° 14.6	2° 18.2 7° 18.4 12° 18.0	2° 18.4 7° 18.6 12° 18.4	2° 18.5 7° 18.8 12° 18.5	2° 18.9 7° 19.2 12° 18.7	2° 18.7 7° 19.2 12° 18.6	
Beamwidth, Horizontal Tolerance, degrees	±4.0	±3.6	±3.9	±4.5	±2.1	±2.4	±5.1	±6.2	
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.6	±0.4	±0.2	±0.3	±0.2	±0.1	
USLS, beampeak to 20° above beampeak, dB	17	17	16	15	15	16	16	16	
Front-to-Back Total Power at 180° ± 30°, dB	19	20	22	30	31	28	27	27	
CPR at Boresight, dB	18	19	22	20	23	22	24	22	
CPR at Sector, dB	6	5	7	8	9	8	7	3	

Mechanical Specifications

Mechanical Tilt Range 0°-17°

 Wind Loading @ Velocity, frontal
 685.0 N @ 150 km/h (154.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 232.0 N @ 150 km/h (52.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 889.0 N @ 150 km/h (199.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 564.0 N @ 150 km/h (126.8 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 608 mm | 23.937 in

 Depth, packed
 352 mm | 13.858 in

 Length, packed
 2010 mm | 79.134 in

 Weight, gross
 49.4 kg | 108.908 lb

Regulatory Compliance/Certifications

COMMSCOPE®

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

