

10-port sector/multibeam antenna, 2x 694–960 MHz 65° HPBW and 8x 1695–2180 MHz 4x 33°HPBW, 5x RET with tilt indicators

- 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
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces

General Specifications

Antenna Type Sector

Band Multiband

Grounding TypeRF 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

Radiator Material Copper | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 2
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 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (4) | 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

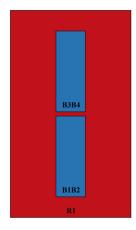
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 35 kg | 77.162 lb

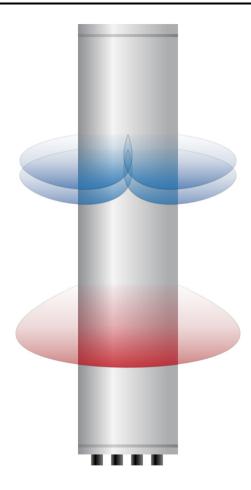
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxXR1
B1	1695-2180	3 - 4	2	AISG1	CPxxxxxxxxxxxxxB1
B2	1695-2180	5 - 6	3	AISG1	CPxxxxxxxxxxxxxB2
В3	1695-2180	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxB3
В4	1695-2180	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxB4

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

Beams Configuration



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2180 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,000 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	880-960	1695-1880	1850-1990	1920-2180
• •	16.4	16.0	16.0	10.4	10.0	10.0
Gain, dBi	16.4	16.9	16.9	18.4	19.3	19.8
Beam Centers, Horizontal, degrees				±27	±27	±27
Beamwidth, Horizontal, degrees	68	65	65	33	31	31
Beamwidth, Vertical, degrees	8.9	8	7.4	7.2	6.8	6.4
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	20	19	16	16	17
Front-to-Back Ratio at 180°, dB	32	34	34	28	34	36
Isolation, Cross Polarization, dB	28	28	28	25	25	25



Page 4 of 7



Isolation, Inter-band, dB	30	30	30	30	30	30
Isolation, Beam to Beam, dB				17	17	17
VSWR Return loss, dB	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1695-1880	1850-1990	1920-2180
Gain by all Beam Tilts, average, dBi	16.3	16.7	16.8	17.7	18.8	19.3
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.3	±0.3	±1.1	±0.6	±0.7
Gain by Beam Tilt, average, dBi	2° 16.1 7° 16.3 12° 16.3	2° 16.5 7° 16.8 12° 16.6	2° 16.6 7° 16.9 12° 16.7	2° 17.6 7° 17.8 12° 17.5	2° 18.6 7° 18.9 12° 18.6	2 ° 19.1 7 ° 19.5 12 ° 18.9
Beamwidth, Horizontal Tolerance, degrees	±1.3	±1.4	±1.9	±1.8	±1.7	±1.7
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.4	±0.3	±0.3	±0.4
USLS, beampeak to 20° above beampeak, dB	17	18	17	15	16	17
Front-to-Back Total Power at 180° ± 30°, dB	25	24	24	24	27	28
CPR at Boresight, dB	16	17	17	16	17	18
CPR at Sector, dB	10	10	9			
CPR at 10 dB Horizontal Beamwidth, dB				6	8	10

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 477.0 N @ 150 km/h (107.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 506.0 N @ 150 km/h (113.8 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 460 mm | 18.11 in

 Depth, packed
 350 mm | 13.78 in

COMMSCOPE®

 Length, packed
 2830 mm | 111.417 in

 Weight, gross
 50 kg | 110.231 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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



