

16-port multibeam antenna, 8x 694–960 MHz, 2x 2-beam 33° HPBW and 8x 1695–2690 MHz, 2x 2-beam 33° HPBW, 4x RET

- Provides 4T4R capability in low and mid bands
- Twin beam patterns are optimized for minimum beam crossover providing for improved LTE data throughput
- GREEN and High Capacity Antenna Solution
- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces
- "Green" packaging of reduced size and gross weight that uses less material and reduces shipping pollution

General Specifications

Antenna Type Multibeam

Band Multiband

Color Light Gray (RAL 7035)

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 0
RF Connector Quantity, mid band 8
RF Connector Quantity, low band 8

RF Connector Quantity, total 16

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

Input Voltage 10-30 Vdc

Internal RET Low band (2) | Mid band (2)



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Power Consumption, active state, maximum $$10\ \mathrm{W}$$

Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

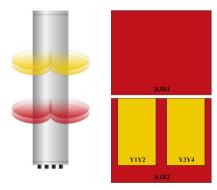
 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 2235 mm | 87.992 in

 Net Weight, antenna only
 63.5 kg | 139.993 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	694-960	1 - 2	1	AICC1	CD		
R3	694-960	5 - 6		AISG1	CPxxxxxxxxxxxxxxR1		
R2	694-960	3 - 4	2	NCC1	CD		
R4	694-960	7 - 8	2	AISG1	CPxxxxxxxxxxxxxxR2		
Y1	1695-2690	9 - 10			65		
Y3	1695-2690	13 - 14	3	AISG1	CPxxxxxxxxxxxxxx1		
Y2	1695-2690	11 - 12	4	AISG1	CPxxxxxxxxxxxxxxY2		
Y4	1695-2690	15 - 16	4				

(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 1,500 W @ 50 °C

Electrical Specifications

	R1-R4	R1-R4	R1-R4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698-806	790-896	890-960	1710-1990	1920-2300	2300-2500	2490-2690
RF Port	1-8	1-8	1-8	9-16	9-16	9-16	9-16
Gain at Mid Tilt, dBi	14.1	15.2	15.7	17.4	18.4	18.7	18.4
Beamwidth, Horizontal, degrees	40	37	34	34	31	28	25
Beamwidth, Vertical, degrees	19.4	17.6	16.2	7.8	7.2	6.3	5.9
Beam Tilt, degrees	2-16	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	16	15	16	17	14
Front-to-Back Ratio at 180°, dB	28	33	32	33	34	32	30
CPR at Boresight, dB	17	17	18	17	19	20	16

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Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25
Isolation, Beam to Beam, dB	17	17	17	17	17	17	17
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200	150	150

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 895.0 N @ 150 km/h (201.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 262.0 N @ 150 km/h (58.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,140.0 N @ 150 km/h (256.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 558.0 N @ 150 km/h (125.4 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 744 mm | 29.291 in

 Depth, packed
 346 mm | 13.622 in

 Length, packed
 2364 mm | 93.071 in

 Weight, gross
 84.5 kg | 186.29 lb

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



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

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members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

