

16-port multibeam antenna, 8x 698–896 MHz, 2x 2-beam 33° HPBW and 8x 1695–2400 MHz, 2x 2-beam 33° HPBW, 4x RET

- Provides 4T4R capability in low and mid bands
- Full spectrum operation for Band 14, AWS, PCS and WCS bands
- Twin beam patterns are optimized for minimum beam crossover providing for improved LTE data throughput
- Excellent Front-to-Back and SPR performance

General Specifications

Antenna Type Multibeam

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 LocationBottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 8
RF Connector Quantity, total 16

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface AISG1 8-pin DIN Female | AISG1 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, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

COMMSC PE®

Dimensions

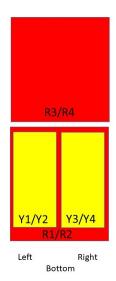
 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 1828 mm | 71.969 in

Net Weight, without mounting kit 57 kg | 125.663 lb

Array Layout



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID		
R1	698-896	1-2	1	CD-000000000000000000000000000000000000		
R3	698-896	5-6	1	CPxxxxxxxxxxxxxXMM1		
R2	698-896	3-4	2	CD-000000000000000000000000000000000000		
R4	698-896	7-8	2	CPxxxxxxxxxxxxxMM2		
Y1	1695-2400	9-10	2	CD-aganganananan MMA2		
Y3	1695-2400	13-14	3	CPxxxxxxxxxxxxxXMM3		
Y2	1695-2400	11-12	4	CPxxxxxxxxxxxxxXMM4		
Y4	1695-2400	15-16	4	CPXXXXXXXXXXXXXXXXIVIIVI4		

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 1,500 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	824-896	1695-1880	1850-1990	1920-2200	2300-2400
Gain, dBi	13.7	14.8	17.7	18.3	19.1	19.1
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	42	35	35	33	32	28
Beamwidth, Vertical, degrees	23.7	21.5	7.7	7.3	6.9	6.3
Beam Tilt, degrees	2-20	2-20	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	17	16	17	18	22
Front-to-Back Ratio at 180°, dB	26	29	36	37	36	34
Isolation, Cross Polarization, dB	25	25	25	25	25	25

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Isolation, Inter-band, dB	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200	150

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	824-896	1695-1880	1850-1990	1920-2200	2300-2400
Gain by all Beam Tilts, average, dBi	13.1	14.2	17	17.9	18.3	18.5
Gain by all Beam Tilts Tolerance, dB	±0.9	±1	±1	±0.4	±0.8	±1
Beamwidth, Horizontal Tolerance, degrees	±2.7	±3	±2.1	±1.2	±1.9	±1.2
Beamwidth, Vertical Tolerance, degrees	±1.5	±1.1	±0.3	±0.2	±0.4	±0.2
USLS, beampeak to 20° above beampeak, dB			14	16	17	16
Front-to-Back Total Power at 180° ± 30°, dB	21	21	27	29	29	27
CPR at Boresight, dB	17	17	17	19	21	21
CPR at 10 dB Horizontal Beamwidth, dB	6	5	9	13	14	13

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 764.0 N @ 150 km/h (171.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 251.0 N @ 150 km/h (56.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,039.0 N @ 150 km/h (233.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 787.0 N @ 150 km/h (176.9 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1982 mm | 78.032 in

 Weight, gross
 74 kg | 163.142 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

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.

* 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



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