

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 45° HPBW, 3x RET

- Features broadband Low Band (698-896 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for Band 14, AWS, PCS and WCS applications
- Independent tilt for all arrays
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

General Specifications

Antenna Type Sector

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 Material Fiberglass, UV resistant

Radiator Material Aluminum | Low 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 Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 3 female | 3 male

Input Voltage 10–30 Vdc

Internal Bias Tee Port 1 | Port 3 | Port 5

Internal RET High band (2) | Low band (1)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

COMMSCOPE®

Dimensions

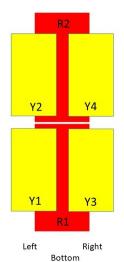
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 1399 mm | 55.079 in

 Net Weight, without mounting kit
 30.2 kg | 66.58 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	A.N.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
R2	698-896	3-4	1	ANxxxxxxxxxxxxxxxxx1
Y1	1695-2360	5-6		A.N
Y3	1695-2360	9-10	2	ANxxxxxxxxxxxxxxxx2
Y2	1695-2360	7-8	3	A.N.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Y4	1695-2360	11-12		ANxxxxxxxxxxxx3

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

'						
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	12.9	13.8	15.4	16	16.3	16.8
Beamwidth, Horizontal, degrees	49	43	44	43	41	38
Beamwidth, Vertical, degrees	35.5	30.4	15.2	13.9	13	11.6
Beam Tilt, degrees	2-18	2-18	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	16	15	15	15
Front-to-Back Ratio at 180°, dB	30	30	33	34	34	36
Isolation, Cross Polarization, dB	25	25	25	25	25	25
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

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	300	300	250	250	250	200
maximum, watts						

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	12.4	13.3	14.9	15.5	15.9	16.4
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.7	±0.7	±0.6	±0.7	±0.7
Gain by Beam Tilt, average, dBi	2° 12.4 10° 12.5 18° 12.2	2° 13.5 10° 13.5 18° 13.0	2° 15.1 7° 14.9 12° 14.7	2° 15.6 7° 15.5 12° 15.3	2° 16.0 7° 16.0 12° 15.6	2° 16.7 7° 16.4 12° 16.0
Beamwidth, Horizontal Tolerance, degrees	±3.4	±3.8	±2.5	±1.4	±2.3	±2.2
Beamwidth, Vertical Tolerance, degrees	±3.1	±3	±1.2	±1.1	±1.3	±0.9
Front-to-Back Total Power at 180° ± 30°, dB	24	25	27	27	28	28
CPR at Boresight, dB	26	29	18	21	21	20
CPR at 10 dB Horizontal Beamwidth, dB	13	13	7	9	10	12

0.74 m² | 7.965 ft²

Mechanical Specifications

Effective Projective Area (EPA), frontal

Effective Projective Area (EPA), lateral	0.15 m ² 1.615 ft ²
Mechanical Tilt Range	0°-22°
Wind Loading @ Velocity, frontal	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 159.0 N @ 150 km/h (35.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)

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

Packaging and Weights

Width, packed	608 mm 23.937 in
Depth, packed	346 mm 13.622 in
Length, packed	1542 mm 60.709 in
Weight, gross	43.2 kg 95.24 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



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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





