

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 65° HPBW, 6x 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
- Non-stacked high band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs
- Independent tilt for all arrays
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector 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 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 Hardware CommRET v2

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

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

COMMSC PE°

Internal RET High band (4) | 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 1499 mm | 59.016 in

Net Weight, without mounting kit 33.5 kg | 73.855 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	CPxxxxxxxxxxxxxR1
R2	698-896	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxXY1
Y2	1695-2360	7-8	4	CPxxxxxxxxxxxxxY2
Y3	1695-2360	9-10	5	CPxxxxxxxxxxxxXY3
Y4	1695-2360	11-12	6	CPxxxxxxxxxxxx4

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

Port Configuration

Bottom



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	13.2	13.7	16.1	17	17.6	18.2
Beamwidth, Horizontal, degrees	69	66	71	67	61	57
Beamwidth, Vertical, degrees	17.1	15.4	7.5	6.9	6.4	5.7
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	19	15	17	18	21
Front-to-Back Ratio at 180°, dB	32	31	33	33	34	33
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

Page 3 of 7



PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	300	300	300	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	12.9	13.3	15.6	16.5	17.1	17.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.7	±0.7	±0.6	±0.4
Gain by Beam Tilt, average, dBi	2° 13.0 9° 12.9 16° 12.6	2° 13.5 9° 13.4 16° 12.9	2° 15.4 7° 15.6 12° 15.5	2° 16.2 7° 16.6 12° 16.4	2° 16.9 7° 17.3 12° 17.0	2° 17.7 7° 18.0 12° 17.6
Beamwidth, Horizontal Tolerance, degrees	±5.7	±4.0	±4.9	±7.3	±5.7	±2.4
Beamwidth, Vertical Tolerance, degrees	±1.6	±1.4	±0.6	±0.4	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB			14	16	17	16
Front-to-Back Total Power at 180° ± 30°, dB	23	21	27	27	26	27
CPR at Boresight, dB	24	24	19	21	21	18
CPR at Sector, dB	12	9	9	7	7	8

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.52 m ² 5	5.597 ft ²
Effective Projective Area (EPA), lateral	0.17 m ² 1	1.83 ft²

Mechanical Tilt Range 0°-15°

 Wind Loading @ Velocity, frontal
 549.0 N @ 150 km/h (123.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 183.0 N @ 150 km/h (41.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 712.0 N @ 150 km/h (160.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 452.0 N @ 150 km/h (101.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 1682 mm | 66.221 in



Weight, gross 46.2 kg | 101.853 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 1

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	$\label{thm:constraint} \mbox{Designed, manufactured and/or distributed under this quality management system}$
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

COMMSCOPE®

