

12-port sector antenna, 4x 698-896 and 8x 1695-2360 MHz,  $65^{\circ}$  HPBW, 3x RET, 3x SBT.

- Features broadband Low Band (698-896 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for 700 and 850 MHz, AWS, PCS and WCS applications
- Non-stacked high band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs
- Independent RET for each pair of 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

RF Connector Quantity, low band

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

**Grounding Type**RF connector body grounded to reflector and mounting bracket

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, mid band 8

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** 3 female | 3 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 5 | Port 9

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

Power Consumption, active state, maximum 10 W

Power Consumption, idle state, maximum 2 W

**Protocol** 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

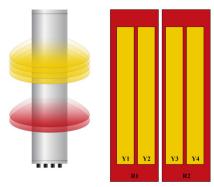
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 1499 mm | 59.016 in

Net Weight, antenna only 33 kg | 72.752 lb

#### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2	,	AISG1	CPxxxxxxxxxxxxxxxR1	
R2	698-896	3 - 4	1 AISG1		CPXXXXXXXXXXXXXX	
Y1	1695-2360	5 - 6	2	AISG2	CPxxxxxxxxxxxxxxY1	
Y2	1695-2360	7 - 8	_	AISGZ	CPXXXXXXXXXXXXXX	
Y3	1695-2360	9 - 10	3	AISG3	CPxxxxxxxxxxxxxx	
Y4	1695-2360	11 - 12	3	AISG3	CPXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	

(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  $^{\circ}$ C

## **Electrical Specifications**

	R1-R2	R1-R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	13.3	13.3	16.3	17	17.5	18.2
Beamwidth, Horizontal, degrees	71	67	71	68	63	58
Beamwidth, Vertical, degrees	17.4	15.7	7.5	7	6.6	6
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	15	17	18	22
Front-to-Back Ratio at 180°, dB	35	32	35	37	34	32
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	300	300	300	250	250	200

#### Electrical Specifications, BASTA

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Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	12.8	13.1	15.8	16.6	17.1	17.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.6	±0.5	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±5	±2	±6	±7	±6	±3
Beamwidth, Vertical Tolerance, degrees	±1.4	±1.4	±0.5	±0.3	±0.4	±0.2
USLS, beampeak to 20° above beampeak, dB	19	21	14	16	16	17
Front-to-Back Total Power at 180° ± 30°, dB	24	23	27	26	26	26
CPR at Boresight, dB	25	24	24	26	25	22
CPR at Sector, dB	13	10	10	7	7	8

241 km/h (150 mph)

### Mechanical Specifications

 Effective Projective Area (EPA), frontal
 0.47 m² | 5.059 ft²

 Effective Projective Area (EPA), lateral
 0.14 m² | 1.507 ft²

 Wind Loading @ Velocity, frontal
 498.0 N @ 150 km/h (112.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 148.0 N @ 150 km/h (33.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 597.0 N @ 150 km/h (134.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 342.0 N @ 150 km/h (76.9 lbf @ 150 km/h)

## Packaging and Weights

Wind Speed, maximum

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 1686 mm | 66.378 in

 Weight, gross
 46.4 kg | 102.294 lb

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## 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.



## 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

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