

# 12-Port Sector/multibeam antenna, 4x 617–894 MHz 65° HPBW and 8x 1695–2360 MHz 4x 33° HPBW, 5x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces
- Each High Band antenna down tilt can be independently adjusted for greater flexibility in network optimization

#### General Specifications

Antenna Type Multibeam

Band Multiband

Color Light Gray (RAL 7035)

**Grounding Type**RF 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 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** 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (1)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

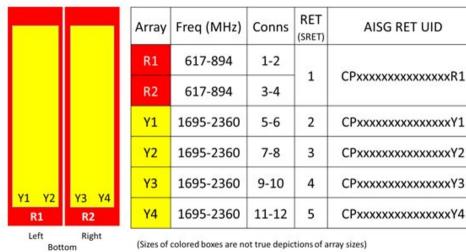
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**Protocol** 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

Width 640 mm | 25.197 in **Depth** 235 mm | 9.252 in Length 1224 mm | 48.189 in Net Weight, without mounting kit 40.1 kg | 88.405 lb

#### Array Layout



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

### Port Configuration



#### **Electrical Specifications**



**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 617 – 894 MHz

Polarization ±45°

**Total Input Power, maximum** 1,000 W @ 50 °C

#### **Electrical Specifications**

Frequency Band, MHz	617-698	698-806	806-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	12.6	13.2	13.1	18.1	19	19.4	18.7
Beam Centers, Horizontal, degrees				±27	±27	±27	±27
Beamwidth, Horizontal, degrees	72	63	64	36	35	32	29
Beamwidth, Vertical, degrees	21.3	18.8	16.4	7.4	6.9	6.5	5.8
Beam Tilt, degrees	5-22	5-22	5-18	2-10	2-10	2-10	2-10
USLS (First Lobe), dB	16	18	20	16	16	18	19
Front-to-Back Ratio at 180°, dB	29	33	27	35	36	36	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	200	200

### Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806	806-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	12.3	12.8	12.7	17.4	18.6	19	18
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.6	±0.8	±0.8	±0.5	±0.4	±1.5
Gain by Beam Tilt, average, dBi	5° 12.4 13° 12.3 22° 12.0	5° 13.0 13° 12.8 22° 12.3	5° 12.9 11° 12.8 18° 12.1	2° 17.3 6° 17.5 10° 17.5	2° 18.5 6° 18.7 10° 18.7	2° 18.9 6° 19.1 10° 18.9	2° 17.7 6° 18.1 10° 18.0
Beamwidth, Horizontal Tolerance, degrees	±6.6	±7.9	±10.7	±2	±1.8	±2.6	±3.4
Beamwidth, Vertical Tolerance, degrees	±2.1	±1.8	±1.2	±0.3	±0.2	±0.4	±0.2
USLS, beampeak to 20° above	15	15	16	15	16	17	17

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beampeak, dB							
Front-to-Back Total Power at 180° ± 30°, dB	21	22	21	26	29	29	25
CPR at Boresight, dB	18	19	18	18	20	19	12
CPR at Sector, dB	10	9	11				
CPR at 10 dB Horizontal Beamwidth. dB				12	12	13	4

#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 505.0 N @ 150 km/h (113.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 156.0 N @ 150 km/h (35.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 688.0 N @ 150 km/h (154.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 520.0 N @ 150 km/h (116.9 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
 1379 mm | 54.291 in

 Weight, gross
 52.5 kg | 115.743 lb

#### Regulatory Compliance/Certifications

#### Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

#### 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	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





