

10-port sector/multibeam antenna, 2x 694–960 MHz 65° HPBW and 8x 1710–2180 MHz 4x 33°HPBW, 5x RET with tilt indicators

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces

#### General Specifications

Antenna TypeMultibeamBandMultiband

**Grounding Type**RF connector inner conductor and 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

**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 2
RF Connector Quantity, total 10

#### 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, idle state, maximum 1 W
Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

COMMSC PE°

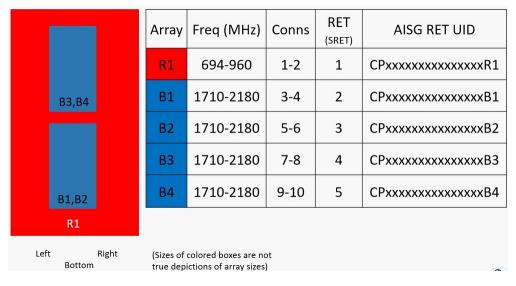
 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

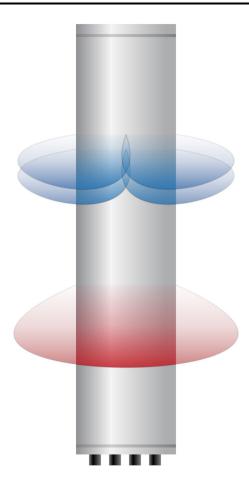
**Length** 1580 mm | 62.205 in

Net Weight, with installed actuator 25 kg | 55.115 lb

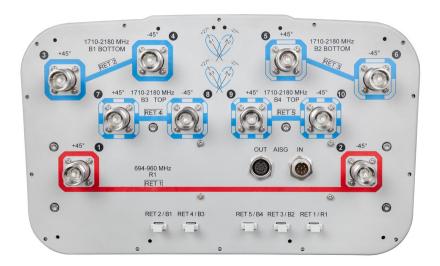
### Array Layout



Beams Configuration



Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1710 – 2180 MHz | 694 – 960 MHz

Polarization ±45°

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

## **Electrical Specifications**

Frequency Band, MHz	694-790	790-890	880-960	1710-1880	1850-1990	1920-2180
Gain, dBi	14.4	14.8	14.9	15.9	16.5	17.1
Beam Centers, Horizontal, degrees				±27	±27	±27
Beamwidth, Horizontal, degrees	69	67	65	33	32	30
Beamwidth, Vertical, degrees	13.5	12.3	11.5	11.9	11.2	10.6
Beam Tilt, degrees	2-14	2-14	2-14	2-14	2-14	2-14
USLS (First Lobe), dB	14	16	17	17	18	19
Front-to-Back Ratio at 180°, dB	32	34	33	31	34	35
Isolation, Cross Polarization, dB	28	28	28	25	25	25



Isolation, Inter-band, dB	30	30	30	25	25	25
Isolation, Beam to Beam, dB				17	17	17
VSWR   Return loss, dB	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	300	300	300	200	200	200

#### Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1710-1880	1850-1990	1920-2180
Gain by all Beam Tilts, average, dBi	14.2	14.6	14.7	15.2	16	16.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.4	±1	±0.6	±0.8
Gain by Beam Tilt, average, dBi	2° 14.3 8° 14.2 14° 13.9	2° 14.6 8° 14.7 14° 14.3	2 °   14.9 8 °   14.8 14 °   14.4	2° 15.2 8° 15.3 14° 14.8	2° 16.0 8° 16.2 14° 15.7	2° 16.5 8° 16.7 14° 16.1
Beamwidth, Horizontal Tolerance, degrees	±1.9	±2.3	±2.2	±1.7	±1.7	±1.7
Beamwidth, Vertical Tolerance, degrees	±1	±0.8	±0.7	±1	±0.9	±0.9
USLS, beampeak to 20° above beampeak, dB	14	16	16	17	18	18
Front-to-Back Total Power at 180° ± 30°, dB	24	24	22	24	26	27
CPR at Boresight, dB	16	16	17	14	15	16
CPR at Sector, dB	11	10	9			
CPR at 10 dB Horizontal Beamwidth, dB				8	11	11

#### Mechanical Specifications

Mechanical Tilt Range 0°-22°

 Wind Loading @ Velocity, frontal
 254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 214.0 N @ 150 km/h (48.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 539.0 N @ 150 km/h (121.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 269.0 N @ 150 km/h (60.5 lbf @ 150 km/h)

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

#### Packaging and Weights

**Width, packed** 460 mm | 18.11 in

**COMMSCOPE®** 

 Depth, packed
 372 mm | 14.646 in

 Length, packed
 1867 mm | 73.504 in

 Weight, gross
 38 kg | 83.776 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





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







