

12-port sector antenna, 2x 698–798, 2x 824-896 and 8x 1695–2360 MHz, 65° HPBW, 3x RET and low bands have diplexers

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Provides support for future Band 14 operations
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

### General Specifications

Antenna Type Sector

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 | 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 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 (2) | Low band (1)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

**COMMSCOPE®** 

#### **Dimensions**

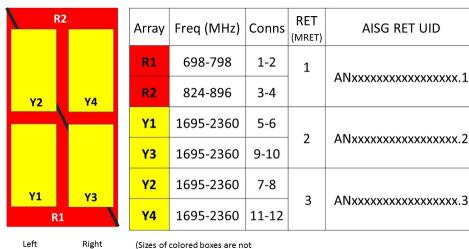
 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

 Length
 2438 mm | 95.984 in

 Net Weight, without mounting kit
 31.4 kg | 69.225 lb

### Array Layout



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

### **Electrical Specifications**

Bottom

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 698 – 798 MHz | 824 – 896 MHz

Polarization ±45°

### **Electrical Specifications**

Frequency Band, MHz	698-798	824-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	15.9	16.4	16.9	17.2	17.6	17.6
Beamwidth, Horizontal, degrees	67	64	63	63	64	65
Beamwidth, Vertical, degrees	9.7	8.6	8.2	7.5	7	6.2
Beam Tilt, degrees	2-11	2-11	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	18	17	18	17	14
Front-to-Back Ratio at 180°,	32	34	31	36	36	36

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dB						
Isolation, Cross Polarization, dB	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30
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, maximum, watts	350	350	350	350	350	300

## Electrical Specifications, BASTA

Frequency Band, MHz	698-798	824-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	15.7	16.2	16.4	16.8	17	17.5
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6	±0.4	±0.6	±0.5
Gain by Beam Tilt, average, dBi	2° 15.6 6° 15.8 11° 15.7	2° 15.9 6° 16.2 11° 16.2	2° 16.3 6° 16.4 12° 16.3	2° 16.7 6° 16.9 12° 16.7	2° 16.7 6° 17.2 12° 17.0	2° 17.1 6° 17.6 12° 17.4
Beamwidth, Horizontal Tolerance, degrees	±1.1	±1.5	±3.5	±3	±4.5	±3.7
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.5	±0.4	±0.6	±0.2
USLS, beampeak to 20° above beampeak, dB	16	17	14	16	16	14
Front-to-Back Total Power at 180° ± 30°, dB	26	24	27	30	27	28
CPR at Boresight, dB	21	21	19	21	23	24
CPR at Sector, dB	10	12	10	14	13	8

241 km/h (150 mph)

### Mechanical Specifications

0.4 m <sup>2</sup>   4.306 ft <sup>2</sup>
0.34 m²   3.66 ft²
425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)
361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)
900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)
451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)

Packaging and Weights

Wind Speed, maximum

**COMMSCOPE®** 

 Width, packed
 450 mm | 17.717 in

 Depth, packed
 355 mm | 13.976 in

 Length, packed
 2585 mm | 101.772 in

 Weight, gross
 43.8 kg | 96.562 lb

### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

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

ROHS Compliant UK-ROHS Compliant



#### Included Products

BSAMNT-2F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

