

8-port sector antenna, 4x 698-896 and 4x 1695-2360 MHz, 45° HPBW, 4x RET

- Independent tilt for all arrays
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

General Specifications

Antenna Type Sector with internal RET

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF 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 LocationBottom

RF Connector Quantity, high band 4

RF Connector Quantity, low band 4

RF Connector Quantity, total 8

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 (2) | Low band (2)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

COMMSC PE°

Dimensions

Width 640 mm | 25.197 in

Depth 235 mm | 9.252 in

Length 2437 mm | 95.945 in

Net Weight, antenna only 61 kg | 134.482 lb

Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (MRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|---------------|----------|--------------------|
| R1 | 698-896 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxMM.1 |
| R2 | 698-896 | 3 - 4 | 2 | AISG1 | CPxxxxxxxxxxxMM.2 |
| Y1 | 1695-2360 | 5 - 6 | 3 | AISG1 | CPxxxxxxxxxxxMM.3 |
| Y2 | 1695-2360 | 7 - 8 | 4 | AISG1 | CPxxxxxxxxxxxXMM.4 |

(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 °C

COMMSCOPE®

Electrical Specifications

| | R1,R2 | R1,R2 | Y1,Y2 | Y1,Y2 | Y1,Y2 | Y1,Y2 |
|---|------------|------------|------------|------------|------------|------------|
| Frequency Band, MHz | 698-806 | 806-896 | 1695-1880 | 1850-1990 | 1920-2180 | 2300-2360 |
| RF Port | 1,2,3,4 | 1,2,3,4 | 5,6,7,8 | 5,6,7,8 | 5,6,7,8 | 5,6,7,8 |
| Gain, dBi | 16.4 | 17.1 | 18.8 | 19.2 | 20 | 20.5 |
| Gain at Mid Tilt, dBi | 16 | 17 | 18.4 | 19.1 | 19.6 | 20.5 |
| Beamwidth, Horizontal, degrees | 51 | 45 | 46 | 49 | 47 | 38 |
| Beamwidth, Vertical, degrees | 9.6 | 8.4 | 5.7 | 5.3 | 5 | 4.5 |
| Beam Tilt, degrees | 2-14 | 2-14 | 2-12 | 2-12 | 2-12 | 2-12 |
| USLS (First Lobe), dB | 14 | 15 | 15 | 16 | 16 | 18 |
| Front-to-Back Ratio, Copolarization 180° ± 30°, dB | 28 | 30 | 26 | 26 | 27 | 26 |
| 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 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port, maximum, watts | 350 | 350 | 300 | 300 | 300 | 250 |

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 | 15.9 | 16.9 | 18.3 | 18.9 | 19.4 | 20.2 |
| Gain by all Beam Tilts Tolerance, dB | ±0.7 | ±0.5 | ±0.7 | ±0.4 | ±0.7 | ±0.7 |
| Gain by Beam Tilt, average, dBi | 2° 16.0 8° 16.0 14° 15.7 | 2° 16.9 8° 17.0 14° 16.7 | 2° 18.3 7° 18.4 12° 18.1 | 2° 18.9 7° 19.1 12° 18.8 | 2° 19.4 7° 19.6 12° 19.3 | 2 ° 20.5 7 ° 20.5 12 ° 19.4 |
| Beamwidth, Horizontal Tolerance, degrees | ±8 | ±4 | ±4 | ±2 | ±3 | ±3 |
| Beamwidth, Vertical Tolerance, degrees | ±0.7 | ±0.4 | ±0.4 | ±0.3 | ±0.3 | ±0.1 |
| Front-to-Back Total Power at 180° ± 30°, dB | 23 | 21 | 24 | 26 | 26 | 24 |
| CPR at Boresight, dB | 20 | 20 | 16 | 17 | 18 | 20 |

Mechanical Specifications

COMMSCOPE®

Wind Loading @ Velocity, frontal 954.0 N @ 150 km/h (214.5 lbf @ 150 km/h)

Wind Loading @ Velocity, lateral 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)

Wind Loading @ Velocity, maximum 1,434.0 N @ 150 km/h (322.4 lbf @ 150 km/h)

Wind Loading @ Velocity, rear 1,086.0 N @ 150 km/h (244.1 lbf @ 150 km/h)

Wind Speed, maximum 241.4 km/h (150 mph)

Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in

 Length, packed
 2590 mm | 101.969 in

 Weight, gross
 79.2 kg | 174.606 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-3F – 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



BSAMNT-3F



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

Product Classification

Product Type Fixed tilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net5.6 kg | 12.346 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 5.8 kg | 12.787 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 |
| | |

Page 5 of 6





