

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 45° HPBW, 3x RET

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Three internal RETs for independent tilt on all three bands
- 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 TypeRF 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 7-16 DIN Female

RF Connector LocationBottom

RF Connector Quantity, high band 4
RF Connector Quantity, mid band 0
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

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)

Dimensions

Width 457 mm | 17.992 in **Depth** 178 mm | 7.008 in Length 2437 mm | 95.945 in Net Weight, without mounting kit 36.1 kg | 79.587 lb

Array Layout



Bottom

| Array | Freq (MHz) | Conns | RET (MRET) | AISG RET UID |
|-------|------------|-------|---------------|--|
| R1 | 698-896 | 1-2 | 1 | ARxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| Y1 | 1695-2360 | 3-4 | 2 | ARxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| Y2 | 1695-2360 | 5-6 | 3 | ARxxxxxxxxxxxxxx.3 |

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

Electrical Specifications

Impedance 50 ohm

1695 - 2360 MHz | 698 - 896 MHz **Operating Frequency Band**

Polarization ±45°

Electrical Specifications

| Frequency Band, MHz | 698-806 | 806-896 | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2360 |
|-----------------------------------|---------|---------|-----------|-----------|-----------|-----------|
| Gain, dBi | 18.3 | 18.6 | 19.6 | 20.2 | 20.5 | 21 |
| Beamwidth, Horizontal, degrees | 47 | 43 | 44 | 42.6 | 42 | 39 |
| Beamwidth, Vertical, degrees | 8.9 | 8.2 | 5.8 | 5.3 | 5.1 | 4.5 |
| Beam Tilt, degrees | 0-10 | 0-10 | 0-8 | 0-8 | 0-8 | 0-8 |
| USLS (First Lobe), dB | 17 | 16 | 20 | 20 | 19 | 16 |

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| Front-to-Back Ratio at 180°, dB | 30 | 31 | 33 | 35 | 35 | 36 |
|--|------------|------------|------------|------------|------------|------------|
| CPR at Boresight, dB | 25 | 19 | 20 | 24 | 17 | 17 |
| CPR at 10 dB Horizontal Beamwidth, dB | 11 | 16 | 10 | 10 | 10 | 10 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 |
| 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 |

Mechanical Specifications

Effective Projective Area (EPA), frontal $1.4 \text{ m}^2 \mid 15.069 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.3 \text{ m}^2 \mid 3.229 \text{ ft}^2$

Mechanical Tilt Range 0°-11°

 Wind Loading @ Velocity, frontal
 1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 315.0 N @ 150 km/h (70.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,304.0 N @ 150 km/h (293.2 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 526 mm | 20.709 in

 Depth, packed
 283 mm | 11.142 in

 Length, packed
 2604 mm | 102.52 in

 Weight, gross
 50.1 kg | 110.451 lb

Regulatory Compliance/Certifications

Agency Classification

CE Compliant with the relevant CE product directives

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





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 1

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.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |
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