

12-port sector antenna, 4x 694–894 and 8x 1695–2360 MHz, 85° HPBW, 6x RETs

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics
- 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

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

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 2 female | 2 male

Input Voltage 10–30 Vdc

Internal RET High band (4) | Low band (2)

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

Protocol 3GPP/AISG 2.0 (Multi-RET)

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Dimensions

 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

Length 1828 mm | 71.969 in

Net Weight, without mounting kit 37.3 kg | 82.232 lb

Array Layout



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	694-894	1-2	1	CPxxxxxxxxxxxxxxxxmm.1
R2	694-894	3-4	2	CPxxxxxxxxxxxxxxxxmm.2
Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxxxxmm.3
Y2	1695-2360	7-8	4	CPxxxxxxxxxxxxxxxxmm.4
Y3	1695-2360	9-10	5	CPxxxxxxxxxxxxxxxmm.5
Y4	1695-2360	11-12	6	CPxxxxxxxxxxxxxxxmm.6

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

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Operating Frequency Band 1695 – 2360 MHz | 694 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-806	806-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	14.5	14.8	15.9	16.8	17.4	17.9
Beamwidth, Horizontal, degrees	82	76	84	82	78	73
Beamwidth, Vertical, degrees	12.5	11.1	5.5	5.2	5	4.6
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	15	18	18	18
Front-to-Back Ratio at 180°, dB	33	27	28	30	30	29
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 at 50°C, maximum, watts	250	250	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-806	806-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	14	14.5	14.9	16.1	16.7	17.4
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±1.4	±0.8	±0.9	±0.7
Gain by Beam Tilt, average, dBi	2° 13.9 8° 14.0 14° 13.9	2° 14.4 8° 14.6 14° 14.3	2° 14.9 7° 15.1 12° 14.7	2° 16.0 7° 16.2 12° 15.9	2° 16.5 7° 16.8 12° 16.5	2 ° 17.6 7 ° 17.6 12 ° 16.8
Beamwidth, Horizontal Tolerance, degrees	±10.2	±5.2	±8.9	±10.7	±10.2	±11.8
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.7	±0.2	±0.3	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	20	19	13	15	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	20	22	25	24	24

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CPR at Boresight, dB	20	21	15	16	15	17
CPR at Sector, dB	11	8	10	11	11	8

Mechanical Specifications

Effective Projective Area (EPA), frontal 0.64 m² | 6.889 ft²

Effective Projective Area (EPA), lateral 0.22 m² | 2.368 ft²

Mechanical Tilt Range 0°-17°

 Wind Loading @ Velocity, frontal
 685.0 N @ 150 km/h (154.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 232.0 N @ 150 km/h (52.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 889.0 N @ 150 km/h (199.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 564.0 N @ 150 km/h (126.8 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2015 mm | 79.331 in

 Weight, gross
 48.4 kg | 106.704 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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant

UK-ROHS Compliant/Exempted



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

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BSAMNT-2F



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, net3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 4 kg | 8.818 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

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