

8-port sector antenna, 2x 698–803, 2x 824–894 and 4x 1695–2690 MHz, 65° HPBW, 3x RET and low bands have diplexers. Internal SBT's on first LB(Port 1) and first HB(Port 5)

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

This product will be discontinued on: November 30, 2024

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector 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 Location Bottom

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 2 female | 2 male

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Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 5

Internal RET High band (1) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

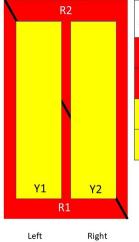
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 2438 mm | 95.984 in

Net Weight, without mounting kit 35.9 kg | 79.146 lb

Array Layout



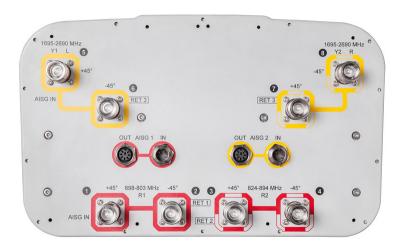
Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-803	1-2	1	CPxxxxxxxxxxxxxXR1
R2	824-894	3-4	2	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	2	CDV1
Y2	1695-2690	7-8	3	CPxxxxxxxxxxxxxY1

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

Port Configuration

Bottom





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 698 – 803 MHz | 824 – 894 MHz

Polarization ±45°

Total Input Power, maximum 800 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	698-803	824-894	1695-1880	1850-1990	1920-2180	2300-2690
Gain, dBi	15.5	16.2	17.2	17.6	17.7	18
Beamwidth, Horizontal, degrees	68	65	63	63	65	67
Beamwidth, Vertical, degrees	10	8.5	7.2	6.8	6.3	5.2
Beam Tilt, degrees	1-12	1-12	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	23	20	24	24	23	24
Front-to-Back Ratio at 180°, dB	30	32	36	38	37	37
Isolation, Cross Polarization, dB	26	26	26	26	26	26
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	200	200	125	125	125	125
maximum, watts						

Electrical Specifications, BASTA

Frequency Band, MHz	698-803	824-894	1695-1880	1850-1990	1920-2180	2300-2690
Gain by all Beam Tilts, average, dBi	15.3	15.9	16.9	17.3	17.5	17.7
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.5	±0.3	±0.3	±0.5
Gain by Beam Tilt, average, dBi	1° 15.4 6° 15.2 12° 15.2	1° 16.0 6° 15.9 12° 15.9	0° 16.8 5° 16.9 10° 16.9	0° 17.3 5° 17.3 10° 17.3	0° 17.5 5° 17.6 10° 17.5	0° 17.8 5° 17.8 10° 17.5
Beamwidth, Horizontal Tolerance, degrees	±1	±1.2	±3	±2.2	±4.0	±4.8
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4	±0.4	±0.2	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	16	14	22	21	20	19
Front-to-Back Total Power at 180° ± 30°, dB	25	25	28	30	28	31
CPR at Boresight, dB	18	19	22	22	22	22
CPR at Sector, dB	10	11	10	11	11	6

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.4 m² 4.306 ft²
Effective Projective Area (EPA), lateral	0.34 m ² 3.66 ft ²

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 456 mm | 17.953 in

 Depth, packed
 357 mm | 14.055 in

 Length, packed
 2585 mm | 101.772 in

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Weight, gross 49.5 kg | 109.129 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



Included Products

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

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





