

8-port multibeam antenna, 8x 1695–2690 MHz, 4x 33° HPBW, 4x RET

- Enhances network capacity and spectrum utilization when used in six sector applications
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs 3 antennas required for 6 sector configurations

General Specifications

Antenna Type Multibeam

Band Single band

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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
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 (4)

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

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

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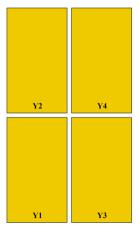
Length

1999 mm | 78.701 in

Net Weight, without mounting kit

27.1 kg | 59.745 lb

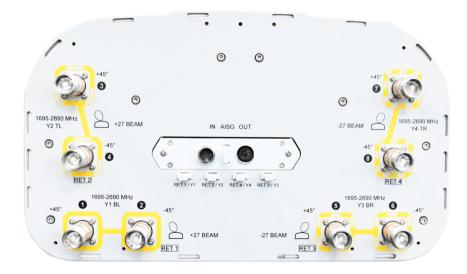
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	33°	1	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	3 - 4	33°	2	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	5 - 6	33°	3	AISG1	CPxxxxxxxxxxxxXY3
Y4	1695-2690	7 - 8	33°	4	AISG1	CPxxxxxxxxxxxxx4

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

Port Configuration



Electrical Specifications

Impedance

50 ohm

Operating Frequency Band

1695 - 2690 MHz

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Polarization	±45°
Total Input Power, maximum	1,200 W

Electrical Specifications

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	39	38	36	35	31
Beamwidth, Vertical, degrees	9.9	9.3	8.8	7.8	7.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	16	16	19	18
Front-to-Back Ratio at 180°, dB	32	34	35	33	32
Isolation, Cross Polarization, dB	27	27	27	27	27
Isolation, Inter-band, dB	28	28	28	28	28
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200

Electrical Specifications, BASTA

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Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690
Gain by all Beam Tilts, average, dBi	17.2	17.7	17.9	18.1	18.3
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±0.5	±0.4	±0.4
Beamwidth, Horizontal Tolerance, degrees	±2.9	±2	±2.2	±1.6	±1.8
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.7	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	17	15	15	17	16
Front-to-Back Total Power at 180° ± 30°, dB	23	26	27	28	27
CPR at Boresight, dB	22	26	25	25	19
CPR at 10 dB Horizontal Beamwidth, dB	12	12	12	9	9

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Mechanical Specifications

 Wind Loading @ Velocity, frontal
 403.0 N @ 150 km/h (90.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 294.0 N @ 150 km/h (66.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 689.0 N @ 150 km/h (154.9 lbf @ 150 km/h)

Wind Loading @ Velocity, rear 414.0 N @ 150 km/h (93.1 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 505 mm | 19.882 in

 Depth, packed
 386 mm | 15.197 in

 Length, packed
 2124 mm | 83.622 in

 Weight, gross
 40.5 kg | 89.287 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 1

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	$\label{thm:constraint} \mbox{Designed, manufactured and/or distributed under this quality management system}$
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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