

12-Port antenna, 4 x 617-894 MHz, 8 x 1695-2690 MHz, 65° HPBW, 3 x RET

- Antenna design optimized to offer high gain performances
- Broadband performance 617-894 MHz and 1695-2690 MHz

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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid 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 1 female | 1 male

Input Voltage 10-30 Vdc

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

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

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

COMMSCOPE®

Width 640 mm | 25.197 in

Depth 235 mm | 9.252 in

Length 1828 mm | 71.969 in

Net Weight, antenna only 48.5 kg | 106.924 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID			
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1			
R2	617-894	3 - 4	**		CPXXXXXXXXXXXXXXXXX			
Y1	1695-2690	5 - 6	2	AISG1	CPxxxxxxxxxxxxxxY1			
Y2	1695-2690	7 - 8	2	AISGI	CPXXXXXXXXXXXXX			
Y3	1695-2690	9 - 10	3	AISG1	CPxxxxxxxxxxxxxY3			
Y4	1695-2690	11 - 12	3		CPXXXXXXXXXXXXXXXX			

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y4
Frequency Band, MHz	617-698	698-806	806-894	1695-188	0 1850-1990	1920-2200	2300-2500	2500-2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
Gain, dBi	14.5	14.8	15.7	18.2	18.5	18.8	19.2	19.7
Beamwidth, Horizontal, degrees	68	64	58	62	62	63	55	51
Beamwidth, Vertical, degrees	12.9	11.7	10.5	5	4.8	4.5	4	3.7
Beam Tilt, degrees	2-12	2-12	2-12	2-9	2-9	2-9	2-9	2-9
USLS (First Lobe), dB	16	17	15	15	16	18	17	17
Front-to-Back Ratio at 180°, dB	30	33	33	32	32	32	31	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806	806-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	14.1	14.5	15.1	17.7	18.2	18.4	18.8	19.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.6	±0.6	±0.5	±0.6	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±5	±4	±4	±4	±6	±6	±7	±5
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.7	±0.3	±0.2	±0.3	±0.3	±0.2
Front-to-Back Total Power at 180° ± 30°, dB	22	24	23	26	26	25	25	24
CPR at Boresight, dB	17	17	16	20	25	21	22	19

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CPR at Sector, dB 10 8 8 9 9 6 6 6

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 911.0 N @ 150 km/h (204.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 446.0 N @ 150 km/h (100.3 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
 387 mm | 15.236 in

 Length, packed
 1982 mm | 78.032 in

 Weight, gross
 64.2 kg | 141.537 lb

Regulatory Compliance/Certifications

Agency Classification

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



Included Products

BSAMNT-4 – 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-4



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, net6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliantUK-ROHSCompliant





