

8 ft, 12-Port Multiband Antenna, $4 \times 698-894$, $8 \times 1695-2360$ MHz, independent tilt for the 700 and 850 MHz bands through diplexing of the low band arrays, $8 \times RETs$

- Features broadband Low Band (698-894 MHz) and High Band (1695-2360 MHz) arrays for 4T4R
 (4X MIMO) capability for 700 and 850 MHz, AWS, PCS and WCS applications
- The Low Band array is diplexed, providing independent tilt for the 700 and 850 MHz bands for 4T4R (4X MIMO) capability when used with Dual Band radios
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics
- Low Band RET assigned to AISG1, Mid Band RET assigned to AISG2

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector MaterialAluminumRF Connector Interface4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 0
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 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET Low band (4) | Mid band (4)

Power Consumption, active state, maximum 8 W

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Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

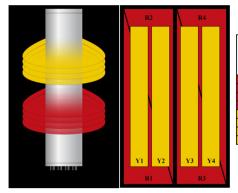
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 59.5 kg | 131.175 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	698-798	1 - 2	1	AISG1	CPxxxxxxxxxxxxMM.1
	824-894	1 - 2	2	AISG1	CPxxxxxxxxxxxxMM.2
	698-798	3 - 4	3	AISG1	CPxxxxxxxxxxxxxMM.3
R4	824-894	3 - 4	4	AISG1	CPxxxxxxxxxxxxMM.4
Y1	1695-2360	5 - 6	5	AISG2	CPxxxxxxxxxxxxMM.5
Y2	1695-2360	7 - 8	6	AISG2	CPxxxxxxxxxxxxMM.6
Y3	1695-2360	9 - 10	7	AISG2	CPxxxxxxxxxxxxxMM.7
Y4	1695-2360	11 - 12	8	AISG2	CPxxxxxxxxxxxxxMM.8

Port Configuration



Electrical Specifications

Impedance 50 ohm

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Operating Frequency Band 1695 – 2360 MHz | 698 – 798 MHz | 824 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R3	R2,R4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4
Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1,2,3,4	1,2,3,4	5,6,7,8,9,10,11,12 5,6,7,8,9,10,11,12 5,6,7,8,9,10,11,12 5,6,7,8,9,10,11,12			
Gain, dBi	14.9	15.2	17.3	18	18.7	19
Beamwidth, Horizontal, degrees	58	61	68	67	61	58
Beamwidth, Vertical, degrees	9.5	8.4	5.7	5.2	4.9	4.4
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	20	18	19	18	17	19
Front-to-Back Ratio at 180°, dB	30	29	34	32	32	33
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	150	150	250	250	250	200

Mechanical Specifications

Effective Projective Area (EPA), frontal 0.9 m² | 9.688 ft²

Effective Projective Area (EPA), lateral 0.31 m² | 3.337 ft²

 Wind Loading @ Velocity, frontal
 954.0 N @ 150 km/h (214.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 331.0 N @ 150 km/h (74.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,235.0 N @ 150 km/h (277.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 785.0 N @ 150 km/h (176.5 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 2625 mm | 103.347 in 74 kg | 163.142 lb

Weight, gross

Regulatory Compliance/Certifications

Classification **Agency**

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

Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical BSAMNT-3F 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

Classification
Compliant with the relevant CE product directives
Below maximum concentration value
Designed, manufactured and/or distributed under this quality management system
Compliant as per SVHC revision on www.andrew.com/ProductCompliance
Compliant
Compliant



