

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 Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 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

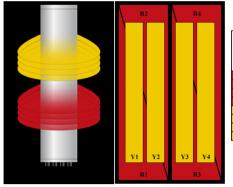
Page 1 of 4



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 27, 2025

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	AISG No.	AISG RET UID
R1	698-798	1 - 2	1	AISG1	CPxxxxxxxxxXMM.1
R2	824-894	1 - 2	2	AISG1	CPxxxxxxxxxxxMM.2
R3	698-798	3 - 4	3	AISG1	CPxxxxxxxxxxxXMM.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	CPxxxxxxxxxxXMM.6
Y3	1695-2360	9 - 10	7	AISG2	CPxxxxxxxxxxxXMM.7
Y4	1695-2360	11 - 12	8	AISG2	CPxxxxxxxxxxXMM.8

Port Configuration



Electrical Specifications

Impedance

50 ohm



Page 2 of 4

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 27, 2025

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	5,6,7,8,9,10,11,1	2 5,6,7,8,9,10,11,1	2 5,6,7,8,9,10,11,1	2 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 m ² 9.688 ft ²
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

Page 3 of 4

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 27, 2025

Depth, p	acked
----------	-------

Length, packed Weight, gross 309 mm | 12.165 in 2625 mm | 103.347 in 74 kg | 163.142 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-3F

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

