

6 ft, 12-port, low band diplexed antenna, 4x 698–894 and 8x 1695–2360 MHz, 65° HPBW, 8x RET

- 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 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
Power Consumption, idle state, maximum 1 W

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Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

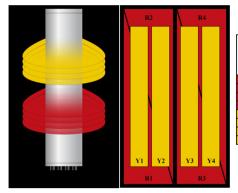
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 1828 mm | 71.969 in

Net Weight, without mounting kit 46 kg | 101.413 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	698-798	1 - 2	1	AISG1	CPxxxxxxxxxxxxxMM.1
	824-894	1 - 2	2	AISG1	CPxxxxxxxxxxxxMM.2
	698-798	3 - 4	3	AISG1	CPxxxxxxxxxxxxxMM.3
R4	824-894	3 - 4	4	AISG1	CPxxxxxxxxxxxxxMM.4
Y1	1695-2360	5 - 6	5	AISG2	CPxxxxxxxxxxxxxMM.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

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

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Polarization ±45°

Total Input Power, maximum $900~\mathrm{W} \ @ \ 50~\mathrm{^{\circ}C}$

Electrical Specifications

Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	13.8	14.2	16.7	17.2	17.8	18
Beamwidth, Horizontal, degrees	63	61	69	67	62	62
Beamwidth, Vertical, degrees	12	10.5	6.9	6.5	6.1	5.5
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	15	15	16	18	18	18
Front-to-Back Ratio at 180°, dB	30	28	32	33	33	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 $0.58 \text{ m}^2 \mid 6.243 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.18 \text{ m}^2 \mid 1.938 \text{ ft}^2$

 Wind Loading @ Velocity, frontal
 622.0 N @ 150 km/h (139.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 188.0 N @ 150 km/h (42.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 746.0 N @ 150 km/h (167.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 428.0 N @ 150 km/h (96.2 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 2014 mm | 79.291 in

 Weight, gross
 60.3 kg | 132.939 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.andrew.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



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

