

8-Port sector antenna, 4x 698-896 and 4x 1695-2360 MHz, 65° HPBW, 4x RETs

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

General Specifications

Antenna Type Sector **Band** Multiband

Color Light Gray (RAL 7035)

Grounding Type RF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum **RF Connector Interface** 4.3-10 Female

RF Connector Location Bottom RF Connector Quantity, high band RF Connector Quantity, mid band 0

RF Connector Quantity, low band RF Connector Quantity, total

Remote Electrical Tilt (RET) Information

CommRFT v2 **RET Hardware**

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 (2) | Low band (2)

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

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

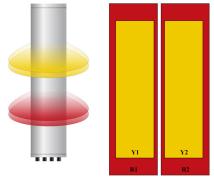
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 1828 mm | 71.969 in

Net Weight, antenna only 31 kg | 68.343 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxMM.1	
R2	698-896	3 - 4	2	AISG1	CPxxxxxxxxxxxxMM.2	
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxxMM.3	
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxMM.4	

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

Port Configuration



Electrical Specifications



Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8
Gain, dBi	14.8	15.5	17.1	17.6	18	18.1
Beamwidth, Horizontal, degrees	68	59	63	60	62	62
Beamwidth, Vertical, degrees	12	10.6	7	6.5	6.1	5.5
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	17	15	16	16	17
Front-to-Back Ratio at 180°, dB	29	27	35	35	34	33
Front-to-Back Total Power at 180° ± 30°, dB	21	21	30	31	29	26
CPR at Boresight, dB	20	19	19	19	19	24
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	300	300	250	250	250	200

Mechanical Specifications

 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
 241.4 km/h (150 mph)

Packaging and Weights



 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2015 mm | 79.331 in

 Weight, gross
 42.1 kg | 92.815 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



Included Products

BSAMNT-2F – 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



BSAMNT-2F



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, net3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4 kg | 8.818 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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



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