

# 6-port sector antenna, 2x 617-894 and 4x 1695–2690 MHz, 65° HPBW, 3x RET, 600 MHz-Ready Antenna Technology

### General Specifications

BandMultibandColorLight Gray (RAL 7035)Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantReflector MaterialAluminumRF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, not Band0 </th <th>Antenna Type</th> <th>Sector</th>	Antenna Type	Sector
Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usageRadome MaterialFiberglass, UV resistantReflector MaterialAluminumRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band0RF Connector Quantity, nid band0RF Connector Quantity, nid band2	Band	Multiband
Performance NoteDutdoor usageRadome MaterialOutdoor usageReflector MaterialFiberglass, UV resistantReflector MaterialAluminumRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band4RF Connector Quantity, mid band0RF Connector Quantity, low band2	Color	Light Gray (RAL 7035)
Radome MaterialFiberglass, UV resistantReflector MaterialAluminumRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band4RF Connector Quantity, mid band0RF Connector Quantity, nid band0RF Connector Quantity, low band2	Grounding Type	
Reflector MaterialAluminumRF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band4RF Connector Quantity, mid band0RF Connector Quantity, nuid band0RF Connector Quantity, low band2	Performance Note	Outdoor usage
RF Connector Interface4.3-10 FemaleRF Connector LocationBottomRF Connector Quantity, high band4RF Connector Quantity, mid band0RF Connector Quantity, nor Dand2	Radome Material	Fiberglass, UV resistant
RF Connector LocationBottomRF Connector Quantity, high band4RF Connector Quantity, mid band0RF Connector Quantity, low band2	Reflector Material	Aluminum
RF Connector Quantity, high band4RF Connector Quantity, mid band0RF Connector Quantity, low band2	RF Connector Interface	4.3-10 Female
RF Connector Quantity, mid band0RF Connector Quantity, low band2	RF Connector Location	Bottom
RF Connector Quantity, low band 2	RF Connector Quantity, high band	4
	RF Connector Quantity, mid band	0
RF Connector Quantity, total 6	RF Connector Quantity, low band	2
	RF Connector Quantity, total	6

#### 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	High band (2)   Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

#### Dimensions

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Width	300 mm   11.811 in
Depth	181 mm   7.126 in
Length	1828 mm   71.969 in
Net Weight, antenna only	19.6 kg   43.211 lb

### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	2	AISG1	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX
Y2	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX

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

### Port Configuration

1695-2690 MHz 1995-2690 MHz 1995-2600 MHZ 1995-2

### **Electrical Specifications**

Impedance Operating Frequency Band Polarization 50 ohm 1695 – 2690 MHz | 617 – 894 MHz ±45°

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**Total Input Power, maximum** 

900 W @ 50 °C

### **Electrical Specifications**

	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
RF Port	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6
Gain, dBi	14.3	14.7	17.5	18.1	18.4	18.7	18.7
Beamwidth, Horizontal, degrees	71	70	66	64	64	63	60
Beamwidth, Vertical, degrees	14.5	12.2	5.6	5.3	5	4.4	4.2
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	18	18	19	20	20
Front-to-Back Ratio at 180°, dB	25	29	37	35	31	28	32
CPR at Boresight, dB	16	15	17	18	19	18	16
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200

#### Mechanical Specifications

Effective Projective Area (EPA), frontal	0.26 m <sup>2</sup>   2.799 ft <sup>2</sup>
Effective Projective Area (EPA), lateral	0.22 m²   2.368 ft²
Wind Loading @ Velocity, frontal	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

#### Packaging and Weights

Width, packed	380 mm   14.961 in
Depth, packed	295 mm   11.614 in
Length, packed	1956 mm   77.008 in

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#### Weight, gross

30.9 kg | 68.123 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
50	

Included Products		
BSAMNT-3	-	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

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## BSAMNT-3



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	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm   4.528 in
Compatible Diameter, minimum	60 mm   2.362 in
Weight, net	6.2 kg   13.669 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets   Hardware
Packaging quantity	1
Weight, gross	6.4 kg   14.11 lb
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### 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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