

# 12-port sector/multibeam antenna, 4x 694–960 MHz 65° HPBW and 8x 1695–2400 MHz 4x 33° HPBW, 6x RET with tilt indicators

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces

#### OBSOLETE

#### This product was discontinued on: November 30, 2023

#### **Replaced By:**

RR2VV-6533D-R6

12-port sector/multibeam antenna, 4x 698–960 MHz 65° HPBW and 8x 1710–2690 MHz 4x 33° HPBW, 6x RET

### General Specifications

Antenna Type	Multibeam
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Copper   Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	0
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	High band (4)   Low band (2)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	498 mm   19.606 in
Depth	197 mm   7.756 in
Length	2688 mm   105.827 in
Net Weight, without mounting kit	54 kg   119.049 lb

### Array Layout

Array	Freq(MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
R2	694-960	3-4	2	CPXXXXXXXXXXXXXXXXXXXXX
¥1	1695 - 2400	5-6	3	CPXXXXXXXXXXXXXXXXXXXXXX
¥2	1695 - 2400	7-8	4	CPXXXXXXXXXXXXXXXXXX
¥3	1695 - 2400	9-10	5	СРХХХХХХХХХХХХХХХХ
¥4	1695 - 2400	11-12	6	CPXXXXXXXXXXXXXXXXXXXX

LEFT RIGHT BOTTOM

Y3/Y4

Y1/Y2

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

## Port Configuration

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Page 2 of 7



### **Electrical Specifications**

Impedance	50 ohm
Operating Frequency Band	1695 – 2400 MHz   694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	700 W @ 50 °C

### **Electrical Specifications**

Frequency Band, MHz	698-806	806-896	880-960	1695-1880	1850-1990	1920-2180	2300-2400
Gain, dBi	15.7	16	16.4	17.9	18.7	19.3	19.2
Beam Centers, Horizontal, degrees				±27	±27	±27	±27
Beamwidth, Horizontal, degrees	67	64	61	32	31	30	30
Beamwidth, Vertical, degrees	8.8	7.8	7.4	7.3	6.9	6.5	5.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	19	17	17	18	22
Front-to-Back Ratio at 180°, dB	32	31	31	35	35	36	34
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25



Isolation, Inter-band, dB	30	30	30	30	30	30	30
Isolation, Beam to Beam, dB				17	17	17	17
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	300	300	300	150	150	150	150

### Mechanical Specifications

Mechanical Tilt Range	0°-12°
Wind Loading @ Velocity, frontal	1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	880.0 N @ 150 km/h (197.8 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	2935 mm   115.551 in
Weight, gross	75 kg   165.347 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



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.
BSAMNT-M4	-	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

Page 4 of 7



### \* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

Page 5 of 7



# 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.

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	6.5 kg   14.33 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets   Hardware
Packaging quantity	1
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	



Page 6 of 7



# BSAMNT-M4



Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor 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	4.6 kg   10.141 lb	
Material Specifications		
Material Type	Galvanized steel	
Packaging and Weights		
Included	Brackets   Hardware	
Packaging quantity	1	
Deculatory Compliance (Costifications		

#### 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



Page 7 of 7

