

#### 14 Port Sector Antenna, 2x698-896 MHz, 4x1695-2690 MHz 65° HPBW, and 8x3700-4000 MHz Beamformer, 3XRET and 3x SBTs

• One Low Band RET, One Mid Band RET and One High Band RET. Each RET controlled individually through internal SBTs

### General Specifications

Antenna Type	Sector and beamforming
Band	Multiband
Calibration Connector Interface	4.3-10 Female
Calibration Connector Quantity	1
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	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	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	14

#### Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	3 female   3 male
Input Voltage	10-30 Vdc
Internal Bias Tee	Cal Port   Port 1   Port 3
Internal RET	High band (1)   Low band (1)   Mid band (1)

Page 1 of 7



Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	350 mm   13.78 in
Depth	208 mm   8.189 in
Length	1413 mm   55.63 in
Net Weight, without mounting kit	23 kg   50.706 lb

### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	2	416.62	
Y2	1695-2690	5 - 6	2	AISG2	CPxxxxxxxxxxxxXXXXXY1
P1	3700-4000	7 - 14	3	AISG3	CPxxxxxxxxxxxxxxxP1

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

## Port Configuration



©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 12, 2025



### **Electrical Specifications**

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   3700 – 4000 MHz   698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

### **Electrical Specifications**

Frequency Band, MHz	698-806	806-896	1695-188	0 1850–199	0 1920–220	0 2300–250	0 2500–269	0 3700-4000
Gain, dBi	14	14.2	16.6	16.7	16.8	17.1	17.2	16.2
Beamwidth, Horizontal, degrees	69	67	67	66	69	69	67	83
Beamwidth, Vertical, degrees	16.9	15.2	6.7	6.2	5.8	5.4	5.1	5.8
Beam Tilt, degrees	0-18	0-18	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	20	19	15	16	17	20	22	14
Front-to-Back Ratio at 180°, dB	39	36	31	36	35	33	34	30
Coupling level, Amp, Antenna port to Cal port, dB								26
Coupling level, max Amp Δ, Antenna port to Cal port, dB								±2



©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 12, 2025

Coupler, max Amp Δ, Antenna port to Cal port, dB								0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees								14
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
Isolation, Co-polarization, dB								19
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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-150	-150	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200	200	75

### Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3700-4000
Gain, dBi	17.2
Beamwidth, Horizontal, degrees	65
Beamwidth, Vertical, degrees	6
Beamwidth, Vertical Tolerance, degrees	±0.3
Front-to-Back Total Power at 180° ± 30°, dB	25
USLS (First Lobe), dB	17

## Electrical Specifications, Service Beam

Frequency Band, MHz	3700-400	0
Steered 0° Gain, dBi	20.8	
Steered 0° Gain Tolerance, dBi	±0.8	
Steered 0° Beamwidth, Horizontal, degrees	22	
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	29	
Steered 0° Horizontal Sidelobe, dB	11	
Steered 30° Gain, dBi	19.9	
Steered 30° Beamwidth, Horizontal, degrees	27	
Steered 30° Front-to-Back	27	
		Page 4 of 7

ANDREW an Amphenol company

©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 12, 2025

Total Power at 180° ± 30°, dB

#### Electrical Specifications, Soft Split

Frequency Band, MHz	3700-4000
Gain, dBi	19.2
Beamwidth, Horizontal, degrees	33
Front-to-Back Total Power at 180° ± 30°, dB	26
Horizontal Sidelobe, dB	15

#### Mechanical Specifications

Wind Loading @ Velocity, frontal	224.0 N @ 150 km/h (50.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	187.0 N @ 150 km/h (42.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	474.0 N @ 150 km/h (106.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	237.0 N @ 150 km/h (53.3 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

#### Packaging and Weights

Width, packed	448 mm   17.638 in
Depth, packed	355 mm   13.976 in
Length, packed	1557 mm   61.299 in
Weight, gross	33.4 kg   73.634 lb

#### Regulatory Compliance/Certifications

Agency	Classification	
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system	
Included Product: BSAMNT-3	<ul> <li>Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.</li> <li>Kit contains one scissor top bracket set and one bottom bracket set.</li> </ul>	
* Footnotes		
Performance Note	Severe environmental conditions may degrade optimum performance	

**IDRE** 

n Amphenol company

Page 5 of 7

# 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		

### 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

ANDREW an Amphenol company

Page 6 of 7

©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 14, 2025





Page 7 of 7



©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 14, 2025