

16-port sector antenna, 4x 617-894, 4x1695-2200, 4x2490-2690 and 4x1695-2690 MHz, 65° HPBW, 8x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Antenna shape optimized for wind load reduction

### 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

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

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, mid band

RF Connector Quantity, low band

RF Connector Quantity, total

Bottom

12

RF Connector Quantity, mid band

4

#### 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 (6) | Low band (2)

Power Consumption, active state, maximum 8 W Power Consumption, idle state, maximum 1 W

**Protocol** 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

ANDREW® an Amphenol company

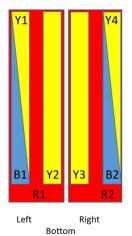
**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 1499 mm | 59.016 in

Net Weight, antenna only 35 kg | 77.162 lb

## Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	617-894	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	617-894	3-4	2	CPxxxxxxxxxxxxxxxR2
B1	1695-2200	5-6	3	CPxxxxxxxxxxxxxxB1
B2	1695-2200	7-8	4	CPxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	11-12	6	CPxxxxxxxxxxxxxxY2
Y3	1695-2690	13-14	7	CPxxxxxxxxxxxxxXY3
Y4	2490-2690	15-16	8	CPxxxxxxxxxxxxxY4

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

## Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2200 MHz | 1695 – 2690 MHz | 2490 – 2690 MHz | 617 – 894

MHz



Polarization ±45°

Total Input Power, maximum  $1,400~\mathrm{W} \ @ 50~\mathrm{^{\circ}C}$ 

## **Electrical Specifications**

	R1,R2	R1,R2	B1,B2	B1,B2	Y1,Y4	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	617-698	698-894	1695-1990	1920-2200	2490-2690	1695-1990	1920-2200	2300-2690
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	9,10,15,16	11,12,13,14	11,12,13,14	11,12,13,14
Gain, dBi	12.7	13.3	16.2	16.5	16.7	16.5	17.4	17.4
Beamwidth, Horizontal, degrees	71	60	65	63	55	60	58	55
Beamwidth, Vertical, degrees	18.1	15.4	6.2	5.8	5	6.5	6	5.2
Beam Tilt, degrees	4-18	4-18	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	15	16	20	17	19	18
Front-to-Back Ratio at 180°, dB	32	30	32	32	26	33	35	33
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	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	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200	200

## Mechanical Specifications

 Wind Loading @ Velocity, frontal
 510.0 N @ 150 km/h (114.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 133.0 N @ 150 km/h (29.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 351.0 N @ 150 km/h (78.9 lbf @ 150 km/h)

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

## Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 1686 mm | 66.378 in

 Weight, gross
 47.9 kg | 105.601 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-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



## **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

ApplicationOutdoorColorSilver

**Dimensions** 

Agency

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

## Packaging and Weights

Included Brackets | Hardware

Packaging quantity

**Weight, gross** 6.4 kg | 14.11 lb

#### Regulatory Compliance/Certifications

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



