

### 8-Port Beamforming Antenna, 3700-4200 MHz, 1x RET

- Planer array antenna 4 columns
- Single internal RET control for all four antenna arrays
- Designed for beamforming, including calibration port
- Optimized for software defined split six sector applications
- Fits in the ANDREW AEKT solution
- Internal SBT on the calibration port allow remote RET control from the radio over the RF jumper cable

# General Specifications

Antenna Type Sector and beamforming

**Band** Single band

**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
 PVC, 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 0
RF Connector Quantity, low band 0
RF Connector Quantity, total 8

### 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

ANDREW®
an Amphenol company

Internal Bias Tee Cal Port

Internal RET High band (1)

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

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

 Width
 307 mm | 12.087 in

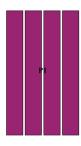
 Depth
 118 mm | 4.646 in

 Length
 850 mm | 33.465 in

 Net Weight, antenna only
 8.5 kg | 18.739 lb

# Array Layout





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

# Port Configuration



# **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 3.7 – 4.2 GHz

Polarization ±45°

**Total Input Power, maximum** 400 W @ 50 °C

# **Electrical Specifications**

	P1	P1
Frequency Band, MHz	3700-4000	4000-4200
RF Port	1-8	1-8
Gain, dBi	17.6	17
Beamwidth, Horizontal, degrees	81	75

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5.8	5.5
0-10	0-10
31	30
26	26
±2	±2
0.6	0.6
5	5
25	25
1.5   14.0	1.5   14.0
-145	-145
75	75
3700-4000	4000-4200
17.8	17.3
25	25
17	17
ern	
3700-4000	4000-4200
<b>3700-4000</b> 22.1	<b>4000-4200</b> 21.6
22.1	21.6
22.1 119	21.6 118
22.1 119 5.7	21.6 118 5.5
22.1 119 5.7 28	21.6 118 5.5 26
22.1 119 5.7 28	21.6 118 5.5 26
22.1 119 5.7 28 19	21.6 118 5.5 26 20
22.1 119 5.7 28 19	21.6 118 5.5 26 20 <b>4000-4200</b>
22.1 119 5.7 28 19 3700-4000 22.3	21.6 118 5.5 26 20 <b>4000-4200</b> 21.9
22.1 119 5.7 28 19  3700-4000 22.3 23	21.6 118 5.5 26 20 4000-4200 21.9 21
22.1 119 5.7 28 19  3700-4000 22.3 23 31	21.6 118 5.5 26 20 4000-4200 21.9 21 30
22.1 119 5.7 28 19  3700-4000 22.3 23 31 14	21.6 118 5.5 26 20 4000-4200 21.9 21 30 14
22.1 119 5.7 28 19  3700-4000 22.3 23 31 14 21.3	21.6 118 5.5 26 20  4000-4200 21.9 21 30 14 20.9
	0-10 31 26 ±2 0.6 5 25 1.5 14.0 -145 75  3700-4000 17.8 25



Frequency Band, MHz 3700-4000 4000-4200

**Gain, dBi** 20.8 20.3

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 284.0 N @ 150 km/h (63.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 56.0 N @ 150 km/h (12.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 286.0 N @ 150 km/h (64.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 343.0 N @ 150 km/h (77.1 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 413 mm | 16.26 in

 Depth, packed
 257 mm | 10.118 in

 Length, packed
 1035 mm | 40.748 in

 Weight, gross
 19 kg | 41.888 lb

### Regulatory Compliance/Certifications

Agency Classification

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

### 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** 

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

# AgencyClassificationCECompliant with the relevant CE product directivesCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.andrew.com/ProductComplianceROHSCompliantUK-ROHSCompliant



