

4-port Next Generation PerforMax<sup>™</sup> sector antenna, 4x 698–894, 55° HPBW, 2x RETs

- Superior patterns for enhanced interference mitigation resulting in improved SINR, higher throughput, and more capacity
- Antenna optimized for higher gain with superior radiation efficiency
- Best in class PIM immunity
- Internal SBT allows remote RET control from the radio over the RF jumper cable
- Powered by Andrew's SEED® technology (Sustainable Energy Efficient Design)
- Interleaved dipole technology results into an attractive, low wind load mechanical package
- The low band array is internally diplexed for an independent tilt at 700 MHz and 850 MHz

#### General Specifications

Antenna Type Sector with internal RET and bias tee

**Band** Single band

**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 MaterialAluminumReflector MaterialAluminumRF Connector Interface4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, low band 4
RF Connector Quantity, total 4

#### 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 Bias Tee Port 1

Internal RET Low band (2)

Power Consumption, active state, maximum 10 W

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2 W Power Consumption, idle state, maximum

**Protocol** 3GPP/AISG 2.0

**Dimensions** 

Width 640 mm | 25.197 in

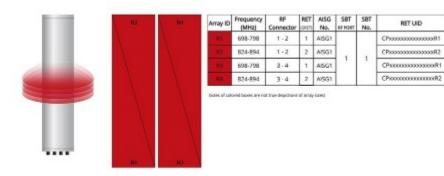
**Depth** 235 mm | 9.252 in

Length 2438 mm | 95.984 in

RETUID

Net Weight, without mounting kit 66 kg | 145.505 lb

## Array Layout



# Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 698 – 894 MHz

Polarization ±45°

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

## **Electrical Specifications**

	R1,R2	R1,R2
Frequency Band, MHz	698-798	824-894
RF Port	1-4	1-4
Gain, Maximum, dBi	16.3	16.5
Gain, dBi	16	16.2
Beamwidth, Horizontal, degrees	56	52
Beamwidth, Vertical, degrees	9	8.5
Beam Tilt, degrees	0-10	0-10
USLS (First Lobe), dB	15	15
Front-to-Back Ratio at 180°, dB	35	33
CPR at Boresight, dB	23	20
Isolation, Cross Polarization, dB	25	25
Isolation, Inter-band, dB	25	25
VSWR   Return loss, dB	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port at 50°C, maximum, watts	150	150

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 986.0 N @ 150 km/h (221.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 291.0 N @ 150 km/h (65.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,256.0 N @ 150 km/h (282.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 616.0 N @ 150 km/h (138.5 lbf @ 150 km/h)

 Wind Speed maximum
 241 km/h (150 mph)

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

### Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in



**Length, packed** 3201 mm | 126.024 in

**Weight, gross** 104 kg | 229.28 lb

### Regulatory Compliance/Certifications

AgencyClassificationUK-ROHSCompliant

#### Included Products

BSAMNT-9 – 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-M9 – 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.

#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

