

4-port Next Generation PerforMax™ sector antenna, 4 x 698-894 MHz, 45° HPBW, 2x RET

- Antenna optimized for higher gain with superior radiation efficiency
- Superior patterns for enhanced interference mitigation resulting in improved SINR, higher throughput, and more capacity
- Internal SBTs allow remote RET control from the radio over the RF jumper cable
- Powered by Andrew's SEED® technology (Sustainable Energy Efficient Design)
- The low band array is internally diplexed for an independent tilt at 700 MHz and 850 MHz
- Best in class PIM immunity
- Designed to reduce SUB 1 alarm triggers

### 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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Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0

Dimensions

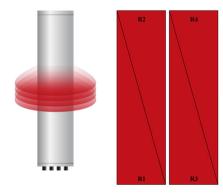
 Width
 749 mm | 29.488 in

 Depth
 197 mm | 7.756 in

 Length
 2438 mm | 95.984 in

Net Weight, without mounting kit 72 kg | 158.733 lb

### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)		SBT RF PORT	SBT No.	RET UID
R1	698-798	1 - 2	1	AISG1			CPxxxxxxxxxxxxxxxR1
R2	824-894	1 - 2	2	AISG1	1 .		CPxxxxxxxxxxxxxxxR2
R3	698-798	3 - 4	1	AISG1		1	CPxxxxxxxxxxxxxxxXR1
R4	824-894	3 - 4	2	AISG1			CPxxxxxxxxxxxxxxxxxR2

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

## Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 698 – 798 MHz | 824 – 894 MHz

Polarization ±45°

### **Electrical Specifications**

	R1,R3	R2,R4
Frequency Band, MHz	698-798	824-894
RF Port	1-4	1-4
Gain, Maximum, dBi	17	17.3
Gain, dBi	16.7	17.1
Beamwidth, Horizontal, degrees	47	45
Beamwidth, Vertical, degrees	9.1	8
Beam Tilt, degrees	0-10	0-10
USLS (First Lobe), dB	15	15

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Front-to-Back Ratio at 180°, dB	30	32
CPR at Boresight, dB	14	16
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
 2,397.0 N @ 150 km/h (538.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 268.0 N @ 150 km/h (60.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 2,397.0 N @ 150 km/h (538.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 2,397.0 N @ 150 km/h (538.9 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 910 mm | 35.827 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 3201 mm | 126.024 in

 Weight, gross
 112 kg | 246.917 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

