

4-port Next Generation PerforMax<sup>™</sup> Superior Coverage and Capacity sector antenna, 4x 698–894MHz, 65° HPBW, 6 ft, 2x RET

- Antenna optimized for higher gain with superior radiation efficiency
- Powered by Andrew's SEED® technology (Sustainable Energy Efficient Design)
- Superior patterns for enhanced interference mitigation resulting in improved SINR, higher throughput, and more capacity
- Best in class PIM immunity
- The low band array is internally diplexed for an independent tilt at 700 MHz and 850 MHz
- Internal SBT allows remote RET control from the radio over the RF jumper cable
- Ideal 4T4R low band antenna for use with an FD mMIMO antenna

## 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** 640 mm | 25.197 in

**Depth** 235 mm | 9.252 in

**Length** 1828 mm | 71.969 in

Net Weight, without mounting kit 53 kg | 116.845 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RETUID
Rt	898-798	1-2	10		sG1 1	1	CP3333333333333R1
	824-894	1-2	2				CP103333333333333R2
	698-798	3.4	1	AISG1			CP1000000000000000R1
	824-894	3-4	2				CP33333333333782

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

## 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,R3	R2,R4
698-798	824-894
1-4	1-4
14.8	15.2
14.5	14.8
64	63
11.6	10.3
2-12	2-12
15	15
28	28
25	27
23	20
	698-798  1-4  14.8  14.5  64  11.6  2-12  15  28  25

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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
 715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 911.0 N @ 150 km/h (204.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 446.0 N @ 150 km/h (100.3 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1982 mm | 78.032 in

 Weight, gross
 72.5 kg | 159.835 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.

#### \* Footnotes

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

