

4-port Next Generation PerforMax™ sector antenna, 4x 698–896 MHz, 33° HPBW, 1x RET

- 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

General Specifications

Antenna Type Sector with internal RET and bias tee

Band Single band

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator MaterialAluminumReflector MaterialAluminum

RF Connector Interface 4.3-10 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 RET
 Low band (1)

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



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Protocol 3GPP/AISG 2.0

Dimensions

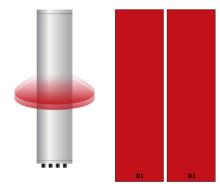
 Width
 970 mm | 38.189 in

 Depth
 235 mm | 9.252 in

 Length
 2438 mm | 95.984 in

Net Weight, without mounting kit 75 kg | 165.347 lb

Array Layout



Array ID	Frequency (MHz)	1000	RET (SRET)		SBT RF PORT	SBT No.	RET UID
R1	698-896	1 - 2		AISG1	1	1	CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R2	698-896	3 - 4					

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 600 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2
Frequency Band, MHz	698-806	806-896
RF Port	1-4	1-4
Gain, Maximum, dBi	18.9	19.6
Gain, dBi	18.2	18.8
Beamwidth, Horizontal, degrees	35	32
Beamwidth, Vertical, degrees	9.1	8.2
Beam Tilt, degrees	0-10	0-10
USLS (First Lobe), dB	16	15
Front-to-Back Ratio at 180°, dB	29	33
CPR at Boresight, dB	25	27
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	300	300

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 3,022.0 N @ 150 km/h (679.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 922.0 N @ 150 km/h (207.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 3,022.0 N @ 150 km/h (679.4 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 1122 mm | 44.173 in

 Depth, packed
 575 mm | 22.638 in

 Length, packed
 2689 mm | 105.866 in



Weight, gross 117.2 kg | 258.381 lb

Regulatory Compliance/Certifications

AgencyClassificationUK-ROHSCompliant

Included Products

BSAMNT-8 – Wide Profile Antenna Down tilt Mounting Kit for 3.0 - 4.5 in (75 - 115mm) 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

