

4-port Next Generation PerforMax™ sector antenna, 4x 698–896, 65° HPBW, 1x RET and 1x SBT

- 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
- Internal SBTs allow remote RET control from the radio over the RF jumper cable

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 MaterialAluminumRF Connector Interface4.3-10 Female

RF Connector LocationBottom

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

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Internal RET Low band (1)

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

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an Amphenol company

Protocol 3GPP/AISG 2.0

Dimensions

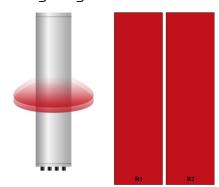
 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 1499 mm | 59.016 in

Net Weight, without mounting kit 35 kg | 77.162 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID
R1	698-896	1 - 2		NECT			CD
R2	698-896	3 - 4		AISG1		'	CPxxxxxxxxxxxxxR1

(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	15.3	15.3
Gain, dBi	14.9	15.1
Beamwidth, Horizontal, degrees	65	62
Beamwidth, Vertical, degrees	14.3	12.9
Beam Tilt, degrees	2-16	2-16
USLS (First Lobe), dB	15	15
Front-to-Back Ratio at 180°, dB	30	29
CPR at Boresight, dB	18	18
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 579.0 N @ 150 km/h (130.2 lbf @ 150 km/h) Wind Loading @ Velocity, lateral 162.0 N @ 150 km/h (36.4 lbf @ 150 km/h) Wind Loading @ Velocity, maximum 739.0 N @ 150 km/h (166.1 lbf @ 150 km/h) Wind Loading @ Velocity, rear 361.0 N @ 150 km/h (81.2 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 1654 mm | 65.118 in Weight, gross 50.5 kg | 111.333 lb

Regulatory Compliance/Certifications

Agency Classification **UK-ROHS** Compliant



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

