

4-port Next Generation PerforMax[™] sector antenna, 4x 698–896 MHz, 55° HPBW, 1x RET and 1x SBT

- 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 SBT allows remote RET control from the radio over the RF jumper cable
- Powered by Andrew's SEED® technology (Sustainable Energy Efficient Design)
- Best in class PIM immunity
- 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 Bias Tee Port 1

Internal RET Low band (1)

Power Consumption, active state, maximum 10 W

ANDREW® an Amphenol company

Page 1 of 4

Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0

Dimensions

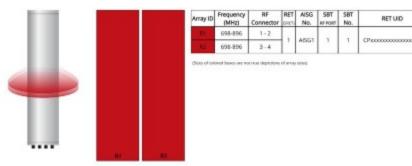
 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 2438 mm | 95.984 in

 Net Weight, without mounting kit
 53.5 kg | 117.947 lb

Array Layout



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	17.4	17.6
Gain, dBi	17.1	17.3
Beamwidth, Horizontal, degrees	56	51
Beamwidth, Vertical, degrees	9	8.4
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	19
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
 987.0 N @ 150 km/h (221.9 lbf @ 150 km/h)

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

 Wind Loading @ Velocity, maximum
 1,257.0 N @ 150 km/h (282.6 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)

Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in

 Length, packed
 2589 mm | 101.929 in

 Weight, gross
 76 kg | 167.551 lb

Regulatory Compliance/Certifications

AgencyClassificationUK-ROHSCompliant



Included Products

BSAMNT-4 – 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-M4 – 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

