

4-port Next Generation PerforMax<sup>™</sup> sector antenna, 2x 698–896, 4x 1695–2360 and 4x 3300-4000 MHz, 65° HPBW, 3x RETs and 2x SBTs.

- Antenna optimized for higher gain with superior radiation efficiency
- Powered by Andrew's SEED® technology (Sustainable Energy Efficient Design)
- Designed to reduce SUB 1 alarm triggers with pattern consistency between low band, mid band and high band
- Superior patterns for enhanced interference mitigation resulting in improved SINR, higher throughput, and more capacity
- Best in class PIM immunity
- Interleaved dipole technology results into an attractive, low wind load mechanical package
- Internal SBTs allow remote RET control from the radio over the RF jumper cable
- Ideal for deploying low band, mid-band and CBRS/C-Band in flagpoles and concealment solutions
- Internal multiplexing reduces cable count from 10 cables to 4 cables per antenna, saving space on flag poles and reducing wind load on other applications

#### General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

**Grounding Type**RF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

**Reflector Material** Aluminum **RF Connector Interface** 4.3-10 Female

RF Connector Location Bottom
RF Connector Quantity, total 4

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 4x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out:

Female Pin3: RS485A(AISG\_B), Pin5: RS485B(AISG\_A), Pin6: DC 10~30V, Pin7:

DC\_Return

**RET Interface, quantity** 2 female | 2 male

ANDREW® an Amphenol company

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3

Internal RET High band (1) | Low band (1) | Mid band (1)

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

Protocol 3GPP/AISG 2.0

**Dimensions** 

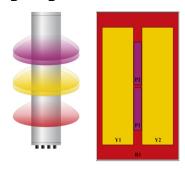
 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

 Length
 1978 mm | 77.874 in

 Net Weight, antenna only
 27.2 kg | 59.966 lb

#### Array Layout

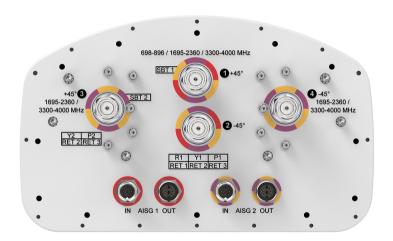


Array ID	Frequency (MHz)	RF Connector	RET (SRET)		SBT RF PORT	SBT No.	RET UID		
R1	698-896	1 - 2	1	AISG1	1	1	ANxxxxxxxxxxxxR1		
Y1	1695-2360	1 - 2	2	AISG2	3	2	ANxxxxxxxxxxxY1		
Y2	1695-2360	3 - 4	_						
P1	3300-4000	1 - 2	3	AISG2	3	2	ANxxxxxxxxxxxxxP1		
P2	3300-4000	3 - 4	3						

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

## Port Configuration





### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 3300 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

### **Electrical Specifications**

·	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-806	806-896	1695-188	01850-199	901920-220	002300-236	603300-35	503550-370	003700-4000
RF Port	1-2	1-2	1-4	1-4	1-4	1-4	1-4	1-4	1-4
Gain, dBi	14.8	14.7	17.9	18.1	18	17.7	17.6	17.4	17.6
Beamwidth, Horizontal, degrees	66	62	64	62	64	68	50	53	45
Beamwidth, Vertical, degrees	13.1	11.4	5.5	5	4.8	4.5	5.7	5.5	5.2
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	0-7	0-10	0-10	0-10
USLS (First Lobe), dB	16	15	16	16	17	16	16	18	18
Front-to-Back Ratio at	28	31	32	32	28	28	28	34	30

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180°, dB									
CPR at Boresight, dB	25	18	23	25	23	23	14	15	14
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	25
VSWR   Return loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145	-145	-145
Input Power per Port at 50° C, maximum, watts	250	250	150	150	150	150	150	150	150

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 306.0 N @ 150 km/h (68.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 590.0 N @ 150 km/h (132.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 311.0 N @ 150 km/h (69.9 lbf @ 150 km/h)

Wind Speed, maximum 241.4 km/h (150 mph)

### Packaging and Weights

 Width, packed
 380 mm | 14.961 in

 Depth, packed
 295 mm | 11.614 in

 Length, packed
 2110 mm | 83.071 in

 Weight, gross
 38.3 kg | 84.437 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.

#### \* Footnotes

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

