

10-port Next Generation High Performance Sector Antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4000 MHz, 55° HPBW, 3x RETs.

- Designed to reduce SUB 1 alarm triggers with pattern consistency between low band and mid band
- Enhanced interference mitigation for improved SINR and throughput
- 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
- Antenna optimized for higher gain with improved radiation efficiency
- Powered by CommScope's next generation high-efficiency SEED™ technology

#### General Specifications

Band

Antenna Type Sector

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Color Light Gray (RAL 7035)

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

bracket

Multiband

Performance Note Outdoor usage

**Radome Material** Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 4

RF Connector Quantity, mid band 4

RF Connector Quantity, low band 2

RF Connector Quantity, total 10

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

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

Input Voltage 10–30 Vdc

Internal Bias Tee Port 1 | Port 3

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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 (Single RET)

**Dimensions** 

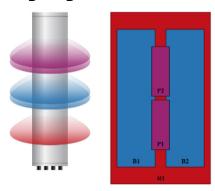
 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 36 kg | 79.366 lb

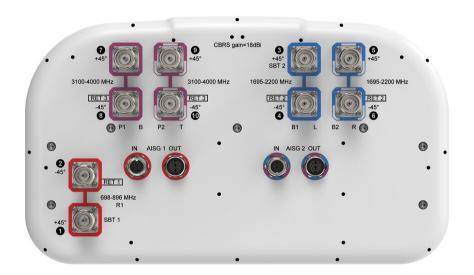
### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)		SBT RF PORT	SBT No.	RET UID		
R1	698-896	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxxxxx1		
B1	1695-2200	3 - 4	_	AISG2	3	2	CD		
B2	1695-2200	5 - 6	2				CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
P1	3100-4000	7 - 8	3	AISG2	3	2	CPxxxxxxxxxxxxxxxP1		
P2	3100-4000	9 - 10	3						

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

# Port Configuration



# **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2200 MHz | 3100 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

# **Electrical Specifications**

	R1	R1	B1,B2	B1,B2	B1,B2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	3100-3550	3550-3700	3700-4000
RF Port	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	7,8,9,10	7,8,9,10	7,8,9,10
Gain, dBi	17.2	17.1	18.9	19.2	19.3	16.9	17.1	17.2
Beamwidth, Horizontal, degrees	58	56	58	58	57	65	55	54
Beamwidth, Vertical, degrees	8.8	7.8	5.1	4.8	4.7	5.9	5.4	5.2
Beam Tilt, degrees	0-11	0-11	0-7	0-7	0-7	0-10	0-10	0-10
USLS (First Lobe), dB	16	17	16	16	16	15	16	16
Front-to-Back Ratio at 180°, dB	27	30	27	28	30	30	29	28

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Isolation, Cross Polarization, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	100	100	100

#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 382.0 N @ 150 km/h (85.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 346.0 N @ 150 km/h (77.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 768.0 N @ 150 km/h (172.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 437.0 N @ 150 km/h (98.2 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 505 mm | 19.882 in

 Depth, packed
 386 mm | 15.197 in

 Length, packed
 2570 mm | 101.181 in

 Weight, gross
 51.5 kg | 113.538 lb

# Regulatory Compliance/Certifications

#### Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

#### 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

