

32-port sector antenna, 4x 694–960, 4x 1427-1518, 4x 1695-2180 & 4x 2490-2690 MHz 65° HPBW; 8x 2300–2690 and 8x 3300-3800MHz, 90° HPBW, 8x RET

- Includes 2x Single Column X-Pol Arrays for 694-960MHz, suitable for 4x MIMO applications
- Includes 2x Single Column X-Pol Tri-plexed Arrays providing 4-Ports x 1427-1518MHz, 4-Ports x 1695-2180MHz and 4-Ports x 2490-2690MHz, suitable for 4x MIMO applications
- Includes 1x 4-Column X-Pol Array for 2300–2690 MHz and a separate 1x 4-Column X-Pol Array for 3300-3800MHz including a calibration port for each Array. Column spacing optimized to support Soft Split Beam-forming
- 8 Internal RET's are provided. All 1427-1518MHz (G1, G2) ports share a common RET. All 2490-2690MHz (Y1, Y2) ports share a common RET
- 4x M-LOC cluster connectors (comprising 16 RF ports + 2 calibration ports in total) are provided for the beam-forming arrays

This product will be discontinued on: December 31, 2025

### General Specifications

Antenna Type Sector

Band Multiband

Calibration Connector Interface M-LOC

Calibration Connector Quantity 2

**Color** Light Gray (RAL 7035)

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

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mounting bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female | M-LOC

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, mid band

0

RF Connector Quantity, low band



#### RF Connector Quantity, total

32

### 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 RET High band (6) | Low band (2)

Power Consumption, idle state, maximum 1 W
Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

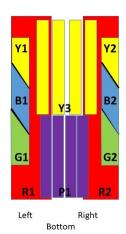
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2100 mm | 82.677 in

 Net Weight, without mounting kit
 52 kg | 114.64 lb

### Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID		
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxR1		
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxXR2		
G1	1427-1518	5-6	3	CPxxxxxxxxxxxxxxXG1		
G2	1427-1518	7-8	3	CPxxxxxxxxxxxxxxG2		
B1	1695-2180	9-10	4	CPxxxxxxxxxxxxxxxB1		
B2	1695-2180	11-12	5	CPxxxxxxxxxxxxxxxB2		
Y1	2490-2690	13-14	6	CPxxxxxxxxxxxxxY1		
Y2	2490-2690	15-16	0	CFXXXXXXXXXXXXXXXXX		
Y3	2300-2690	17-24	7	CPxxxxxxxxxxxxxxXY3		
P1	3300-3800	25-32	8	CPxxxxxxxxxxxxxxP1		

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

### Port Configuration





### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1427 – 1518 MHz | 1695 – 2180 MHz | 2300 – 2690 MHz | 2490

- 2690 MHz | 3300 - 3800 MHz | 694 - 960 MHz

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50 °C

## **Electrical Specifications**

	R1-R2	R1-R2	R1-R2	G1-G2	B1-B2	Y1-Y2	Y3	P1
Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695–218	0 2490-269	0 2300–269	0 3300-3800
Gain, dBi	15	15.2	15.5	15.4	16.9	17.7	14.9	16.1
Beamwidth, Horizontal, degrees	73	66	65	78	70	56	92	91
Beamwidth, Vertical, degrees	10.4	9.3	8.4	6.9	5.2	4.2	6.4	6.4
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	17	18	15	17	24	16	17
Front-to-Back Ratio at 180°, dB	33	33	31	29	31	32	32	30
Coupling level, Amp, Antenna port to Cal port, dB							26	26



Coupling level, max Amp Δ, Antenna port to Cal port, dB							±2	±2
Coupler, max Amp $\Delta$ , Antenna port to Cal port, dB							0.9	0.9
Coupler, max Phase $\Delta$ , Antenna port to Cal port, degrees							9	9
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	25	25	25	20	20
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	-150	-150	-150	-150	-150	-150	-145	-145
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	150	75
Electrical Specificati	ons, Br	oadcast	: 65°					
Frequency Band, MHz							2300-26	90 3300-3800
Gain, dBi							16.4	16.9
Beamwidth, Horizontal, degrees							60	61
Beamwidth, Vertical, degrees							6.4	6.5
USLS (First Lobe), dB							17	19
Electrical Specificati	ons, Se	rvice Be	eam					
Frequency Band, MHz							2300-26	90 3300-3800
Steered 0° Gain, dBi							20	20.9
Steered 0° Beamwidth, Horizontal, degrees							26	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB							33	32
Steered 0° Horizontal Sidelobe, dB							12	13
Steered 30° Gain, dBi							19.1	19.9
Steered 30° Beamwidth, Horizontal, degrees							28	27
Electrical Specificati	ons, So	ft Split						
Frequency Band, MHz							2300-26	90 3300-3800
Gain, dBi							19.5	19.6

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Beamwidth, Horizontal,

#### degrees

Front-to-Back Total Power at 33 29

180° ± 30°, dB

Horizontal Sidelobe, dB 19 15

### Mechanical Specifications

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 803.0 N @ 150 km/h (180.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,040.0 N @ 150 km/h (233.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 661.0 N @ 150 km/h (148.6 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2287 mm | 90.039 in

 Weight, gross
 66.5 kg | 146.607 lb

### Regulatory Compliance/Certifications

#### Agency Classification

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.andrew.com/ProductCompliance

ROHS Compliant

UK-ROHS Compliant/Exempted



#### 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

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