

- Antenna design optimized to offer high gain performances
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Mid band
- Antenna shape optimized for wind load reduction

General Specifications

Antenna Type Sector

Band Multiband

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance NoteOutdoor usageRF Connector Interface4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid band 4
RF Connector Quantity, low band 4
RF Connector Quantity, total 8

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 RET 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
 430 mm | 16.929 in

 Depth
 197 mm | 7.756 in



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Length

1599 mm | 62.953 in

Net Weight, antenna only

24.5 kg | 54.013 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID	
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxXR1	
R2	694-960	3 - 4			CPXXXXXXXXXXXXXXX	
Y1	1695-2690	5 - 6	_	AISG1	CPxxxxxxxxxxxxxY1	
Y2	1695-2690	7 - 8	2		CPXXXXXXXXXXXXXXI	

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2
Frequency Band, MHz	703-803	824-894	890-960
RF Port	1-4	1-4	1-4
Gain, dBi	14.3	14.9	15.1
Beamwidth, Horizontal,	70	70	67

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degrees			
Beamwidth, Vertical, degrees	13.4	11.8	11.1
Beam Tilt, degrees	2-14	2-14	2-14
USLS (First Lobe), dB	16	18	18
Front-to-Back Ratio at 180°, dB	29	27	28
Front-to-Back Total Power at 180° ± 30°, dB	19	19	19
Isolation, Cross Polarization, typical, dB	25	25	25
Isolation, Inter-band, typical, dB	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300

Electrical Specifications

	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	1695-1920	1850-1990	2100-2170	2300-2500	2500-2690
RF Port	5-8	5-8	5-8	5-8	5-8
Gain, dBi	18.1	18.5	18.9	19.5	19.3
Beamwidth, Horizontal, degrees	62	58	59	50	53
Beamwidth, Vertical, degrees	5.9	5.6	5.2	4.7	4.4
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	19	19	19
Front-to-Back Ratio at 180°, dB	34	34	38	34	31
Front-to-Back Total Power at 180° ± 30°, dB	28	28	30	27	26
Isolation, Cross Polarization, dB	26	26	26	26	26
Isolation, Inter-band, dB	26	26	26	26	26
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 370.0 N @ 150 km/h (83.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 186.0 N @ 150 km/h (41.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 557.0 N @ 150 km/h (125.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 237.0 N @ 150 km/h (53.3 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 530 mm | 20.866 in

 Depth, packed
 349 mm | 13.74 in

 Length, packed
 1771 mm | 69.724 in

 Weight, gross
 34.5 kg | 76.059 lb

Regulatory Compliance/Certifications

Agency Classification

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

UK-ROHS Compliant/Exempted

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

