

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 33° HPBW, 2x RETs and 2x SBTs

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x Rx or 4x MIMO

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	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	0
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

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

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Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	640 mm 25.197 in
Depth	235 mm 9.252 in
Length	2438 mm 95.984 in
Net Weight, without mounting kit	58.8 kg 129.632 lb

Array Layout

			Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
			R1	698-896	1-2	1	ANxxxxxxxxxxxxxx1
			¥1	1695-2360	3-4	2	
			¥2	1695-2360	5-6	2	ANxxxxxxxxxxxxxx2
Y	1	Y2					

Left Right Bottom

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

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	18.1	18.9	19.5	19.9	20.5	21.4
Beamwidth, Horizontal, degrees	36	31	34	34	33	29
Beamwidth, Vertical, degrees	9.9	8.7	5.8	5.4	5.1	4.6
Beam Tilt, degrees	0-10	0-10	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	24	17	19	19	18
Front-to-Back Ratio at 180°, dB	33	37	36	38	39	38
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	28	28	28	28
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





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PIM, 3rd Order, 2 x 20 W, dBc Input Power per Port at 50°C, maximum, watts	-153 300	-153 300	-153 250	-153 250	-153 250	-153 200	
Mechanical Specifications							
Effective Projective Area (EPA)	0.99 m² 10.656 ft²						
Effective Projective Area (EPA), lateral			0.33 m² 3.552 ft²				
Mechanical Tilt Range			0°-15°				
Wind Loading @ Velocity, frontal			954.0 N @ 150 km/h (214.5 lbf @ 150 km/h)				
Wind Loading @ Velocity, lateral			355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)				
Wind Loading @ Velocity, maximum			1,434.0 N @ 150 km/h (322.4 lbf @ 150 km/h)				
Wind Loading @ Velocity, rear			788.0 N @ 150 km/h (177.1 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	2590 mm 101.969 in
Weight, gross	84.5 kg 186.29 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
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.
BSAMNT-M4	_	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

 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

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Performance Note

Severe environmental conditions may degrade optimum performance

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