

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 45° HPBW, 6x RET

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

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 Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
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	8
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

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	High band (4) Low band (2)



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Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
Dimensions	
Width	457 mm 17.992 in
Depth	178 mm 7.008 in
Length	1848 mm 72.756 in
Net Weight, without mounting kit	36.4 kg 80.248 lb

Array Layout

Y

		Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
		R1	698-896	1-2	1	CPxxxxxxxxxxxxxxmm.1
2	¥4	R2	698-896	3-4	2	CPxxxxxxxxxxxxxxmm.2
R	2	Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxxxmm.3
		Y2	1695-2360	7-8	4	CPxxxxxxxxxxxxxxmm.4
1	Y3	Y3	1695-2360	9-10	5	CPxxxxxxxxxxxxxxmm.5
R		Y4	1695-2360	11-12	6	CPxxxxxxxxxxxxxxmm.6

Left Right Bottom

Y

(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	1920-2180	2300-2360
Gain, dBi	13.9	14.9	16.9	17.5	18	18.7
Beamwidth, Horizontal, degrees	49	42	44	42	41	37
Beamwidth, Vertical, degrees	24.4	21.7	10.6	10	9.5	8.4
Beam Tilt, degrees	0-16	0-16	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	20	21	17	18	18	19
Front-to-Back Ratio at 180°, dB	35	33	35	36	36	34
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	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

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PIM, 3rd Order, 2 x 20 W, dBc Input Power per Port at 50°C, maximum, watts	-150 150	-150 150	-150 300	-150 250	-150 300	-150 300	
Mechanical Specifica	ations						
Effective Projective Area (EPA), frontal			1.01 m² 10.872 ft²				
Effective Projective Area (EPA), lateral			0.21 m ² 2.26 ft ²				
Mechanical Tilt Range			0°-15°				
Wind Loading @ Velocity, frontal			1,077.0 N @ 150 km/h (242.1 lbf @ 150 km/h)				
Wind Loading @ Velocity, lateral			222.0 N @ 150 km/h (49.9 lbf @ 150 km/h)				
Wind Loading @ Velocity, maximum			1,077.0 N @ 150 km/h (242.1 lbf @ 150 km/h)				
Wind Loading @ Velocity, rear			946.0 N @ 150 km/h (212.7 lbf @ 150 km/h)				
Wind Speed, maximum			241 km/h (150	mph)			

Packaging and Weights

Width, packed	526 mm 20.709 in
Depth, packed	283 mm 11.142 in
Length, packed	2015 mm 79.331 in
Weight, gross	49.3 kg 108.688 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-3F

Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

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