

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 65° HPBW, 6x RET.

- Features broadband Low Band (698-896 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for Band 14, AWS, PCS and WCS applications
- Independent tilt for all arrays
- 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
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	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

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Internal RET	High band (4) Low band (2)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
Dimensions	
Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	1828 mm 71.969 in
Net Weight, without mounting kit	37.7 kg 83.114 lb

Array Layout

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

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	1920-2180	2300-2360
Gain, dBi	14.4	15	15.7	16.3	16.5	16.9
Beamwidth, Horizontal, degrees	69	65	58	60	60	58
Beamwidth, Vertical, degrees	12	10.5	11.2	10.4	9.8	8.8
Beam Tilt, degrees	2-14	2-14	2-14	2-14	2-14	2-14
USLS (First Lobe), dB	16	18	18	19	19	17
Front-to-Back Ratio at 180°, dB	28	32	33	38	35	37
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	-150 300	-150 300	-150 250	-150 250	-150 250	-150 200	
Mechanical Specifica	ations						
Effective Projective Area (EPA)	, frontal		0.64 m² 6.88	39 ft²			
Effective Projective Area (EPA)	, lateral		0.22 m² 2.36	58 ft²			
Mechanical Tilt Range			0°-17°				
Wind Loading @ Velocity, frontal			685.0 N @ 150 km/h (154.0 lbf @ 150 km/h)				
Wind Loading @ Velocity, latera	al		232.0 N @ 150	km/h (52.2 lbf @	150 km/h)		
Wind Loading @ Velocity, maxi	mum		889.0 N @ 150	km/h (199.9 lbf (@ 150 km/h)		
Wind Loading @ Velocity, rear			564.0 N @ 150	km/h (126.8 lbf (@ 150 km/h)		
Wind Speed, maximum			241 km/h (150	mph)			

Packaging and Weights

Width, packed	608 mm 23.937 in
Depth, packed	352 mm 13.858 in
Length, packed	2010 mm 79.134 in
Weight, gross	48.3 kg 106.483 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-2F

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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