

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, 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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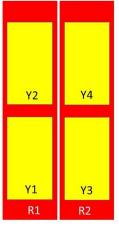


Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
Dimensions	
Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2438 mm 95.984 in
Net Weight, without mounting kit	39.9 kg 87.964 lb

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Array Layout



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



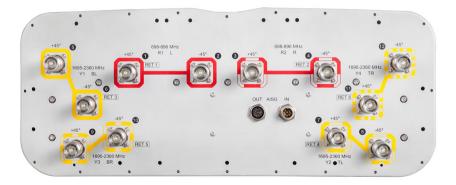
Bottom

Right

(Sizes of colored boxes are not

true depictions of array sizes)

Left



Electrical Specifications

Impedance

Operating Frequency Band

1695 – 2360 MHz | 698 – 896 MHz

50 ohm

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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	15.7	16.1	17	17.5	17.7	17.8
Beamwidth, Horizontal, degrees	75	73	58	59	61	59
Beamwidth, Vertical, degrees	9.7	8.6	7.9	7.4	7	6.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	19	17	18	20	18
Front-to-Back Ratio at 180°, dB	32	33	39	42	39	40
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	15.2	15.9	16.5	17.1	17.2	17.3
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.8	±0.6	±0.6	±0.7
Gain by Beam Tilt, average, dBi	2 ° 15.2 7 ° 15.3 12 ° 15.1	2 ° 15.8 7 ° 16.0 12 ° 15.7	2 ° 16.6 7 ° 16.8 12 ° 16.2	2 ° 17.1 7 ° 17.4 12 ° 16.7	2 ° 17.1 7 ° 17.6 12 ° 16.9	2 ° 17.1 7 ° 17.6 12 ° 16.9
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.1	±4.8	±2.4	±3.2	±3.8
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.5	±0.4	±0.3	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	16	17	14	15	16	16
Front-to-Back Total Power at 180° ± 30°, dB	23	22	31	33	29	27
CPR at Boresight, dB	22	24	20	21	21	20

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CPR at Sector, dB	9	6	9	9	8	8
Mechanical Specifi	cations					
Effective Projective Area (EP	A), frontal		0.9 m² 9.68	38 ft²		
Effective Projective Area (EP	A), lateral		0.31 m² 3.3	337 ft²		
Mechanical Tilt Range			0°-10°			
Wind Loading @ Velocity, fro	ntal		954.0 N @ 15	0 km/h (214.5 lbf	@ 150 km/h)	
Wind Loading @ Velocity, late	eral		331.0 N @ 15	0 km/h (74.4 lbf (@ 150 km/h)	
Wind Loading @ Velocity, ma	ximum		1,235.0 N @ 1	50 km/h (277.6 ll	of @ 150 km/h)	
Wind Loading @ Velocity, rea	ır		785.0 N @ 15	0 km/h (176.5 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	2625 mm 103.347 in
Weight, gross	52.6 kg 115.963 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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