

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
- Non-stacked high band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs
- 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
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

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	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, 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	2 female 2 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	1499 mm 59.016 in
Net Weight, without mounting kit	33.5 kg 73.855 lb

Array Layout

				Array	Fre
				R1	69
				R2	69
				Y1	169
				Y2	169
Y1	Y2	/2	¥4	Y3	169
	12 R1	Y3 Y4 R2		¥4	169
Left Right		(Sizes of	colore		

eq (MHz) Conns AISG RET UID (MRET) 98-896 1-2 1 CPxxxxxxxxxxxxxxxmm.1 98-896 2 3-4 CPxxxxxxxxxxxxxxxmm.2 95-2360 5-6 3 CPxxxxxxxxxxxxxxmm.3 95-2360 7-8 4 CPxxxxxxxxxxxxxxxmm.4 95-2360 9-10 5 CPxxxxxxxxxxxxxxxmm.5 6 95-2360 11-12 CPxxxxxxxxxxxxxmm.6

RET

Left Rig 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	13.2	13.7	16.1	17	17.6	18.2
Beamwidth, Horizontal, degrees	69	66	71	67	61	57
Beamwidth, Vertical, degrees	17.1	15.4	7.5	6.9	6.4	5.7
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	19	15	17	18	21
Front-to-Back Ratio at 180°, dB	32	31	33	33	34	33
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	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	300	300	300	250	250	200
maximum, watts						

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	12.9	13.3	15.6	16.5	17.1	17.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.7	±0.7	±0.6	±0.4
Gain by Beam Tilt, average, dBi	2 ° 13.0 9 ° 12.9 16 ° 12.6	2 ° 13.5 9 ° 13.4 16 ° 12.9	2 ° 15.4 7 ° 15.6 12 ° 15.5	2 ° 16.2 7 ° 16.6 12 ° 16.4	2 ° 16.9 7 ° 17.3 12 ° 17.0	2 ° 17.7 7 ° 18.0 12 ° 17.6
Beamwidth, Horizontal Tolerance, degrees	±5.7	±4.0	±4.9	±7.3	±5.7	±2.4
Beamwidth, Vertical Tolerance, degrees	±1.6	±1.4	±0.6	±0.4	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB			14	16	17	16
Front-to-Back Total Power at 180° ± 30°, dB	23	21	27	27	26	27
CPR at Boresight, dB	24	24	19	21	21	18
CPR at Sector, dB	12	9	9	7	7	8

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.52 m² 5.597 ft²
Effective Projective Area (EPA), lateral	0.17 m² 1.83 ft²
Mechanical Tilt Range	0°-15°
Wind Loading @ Velocity, frontal	549.0 N @ 150 km/h (123.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	183.0 N @ 150 km/h (41.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	712.0 N @ 150 km/h (160.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	452.0 N @ 150 km/h (101.6 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	1682 mm 66.221 in

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Weight, gross

43.8 kg | 96.562 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
504	

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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