

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
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- 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
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	2 female 2 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	430 mm 16.929 in		
Depth	197 mm 7.756 in		
Length	2438 mm 95.984 in		
Net Weight, without mounting kit	42.2 kg 93.035 lb		

Array Layout

		Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
		R1	698-896	1-2	1	CPxxxxxxxxxxxxxxmm.1
Y2	¥4	R2	698-896	3-4	2	CPxxxxxxxxxxxxxxxmm.2
		¥1	1695-2360	5-6	3	CPxxxxxxxxxxxxxxmm.3
		¥2	1695-2360	7-8	4	CPxxxxxxxxxxxxxxxmm.4
¥1	¥3	¥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	14.9	15.7	16.4	17.2	17.6	17.7
Beamwidth, Horizontal, degrees	59	55	65	64	62	63
Beamwidth, Vertical, degrees	9.7	8.5	8	7.4	7	6.2
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	16	16	18	22
Front-to-Back Ratio at 180°, dB	29	29	32	34	34	32
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	250	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	14.5	15.4	15.7	16.8	17.1	17.4
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.8	±0.7	±0.5	±0.5
Gain by Beam Tilt, average, dBi	2 ° 14.5 7 ° 14.6 12 ° 14.4	2 ° 15.3 7 ° 15.5 12 ° 15.3	2 ° 15.5 7 ° 15.9 12 ° 15.7	2 ° 16.5 7 ° 16.9 12 ° 16.7	2 ° 16.9 7 ° 17.3 12 ° 17.0	2 ° 17.2 7 ° 17.4 12 ° 17.4
Beamwidth, Horizontal Tolerance, degrees	±8.6	±5.5	±7.1	±4.9	±5.4	±5.9
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.5	±0.5	±0.4	±0.6	±0.2
USLS, beampeak to 20° above beampeak, dB	17	17	13	15	16	15
Front-to-Back Total Power at 180° ± 30°, dB	22	22	27	29	29	27
CPR at Boresight, dB	25	24	16	21	20	19
CPR at Sector, dB	12	10	9	10	8	11

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.61 m² 6.566 ft²
Effective Projective Area (EPA), lateral	0.32 m² 3.444 ft²
Mechanical Tilt Range	0°-12°
Wind Loading @ Velocity, frontal	651.0 N @ 150 km/h (146.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	339.0 N @ 150 km/h (76.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,052.0 N @ 150 km/h (236.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,182.0 N @ 150 km/h (265.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	2620 mm 103.15 in

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Weight, gross

55.2 kg | 121.695 lb

Regulatory Compliance/Certifications

Agency

Classification

CHINA-ROHS ISO 9001:2015

ROHS

UK-ROHS



Above maximum concentration value Designed, manufactured and/or distributed under this quality management system Compliant/Exempted 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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BSAMNT-3F



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

Product Classification	
Product Type	Fixed tilt mounting kit
General Specifications	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	5.6 kg 12.346 lb
Material Specifications	
Material Type	Galvanized steel

Packaging and Weights

Included	Brackets Hardware
Packaging quantity	1
Weight, gross	5.8 kg 12.787 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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