

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 65° 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 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 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (2)

Power Consumption, idle state, maximum 1 W

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Net Weight, without mounting kit

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

 Width
 498 mm | 19.606 in

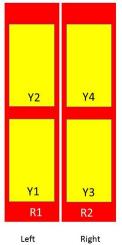
 Depth
 197 mm | 7.756 in

 Length
 1400 mm | 55.118 in

33.5 kg | 73.855 lb



Array Layout

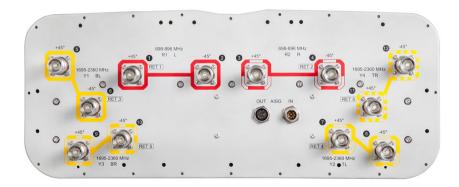


Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-896	1-2	1	CPxxxxxxxxxxxxxxxxmm.1
R2	698-896	3-4	2	CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxxxxmm.3
Y2	1695-2360	7-8	4	CPxxxxxxxxxxxxxxxmm.4
Y3	1695-2360	9-10	5	CPxxxxxxxxxxxxxxxxmm.5
Y4	1695-2360	11-12	6	CPxxxxxxxxxxxxxxxxmm.6

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

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Polarization ±45°

Total Input Power, maximum 900 W @ 50 $^{\circ}$ C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	13.2	13.8	14	14.7	14.8	15.2
Beamwidth, Horizontal, degrees	72	63	59	60	62	59
Beamwidth, Vertical, degrees	16.4	14.9	15.7	14.6	13.9	12.4
Beam Tilt, degrees	2-16	2-16	2-16	2-16	2-16	2-16
USLS (First Lobe), dB	15	19	16	18	17	18
Front-to-Back Ratio at 180°, dB	29	30	34	35	34	35
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	250	250	250	250	250	200

Electrical Specifications, BASTA

Electrical Specifications, DASTA							
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	13.5	14.4	14.5	14.9	
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.6	±0.8	±0.5	±0.4	±0.5	
Gain by Beam Tilt, average, dBi	2° 13.0 9° 12.9 16° 12.7	2° 13.5 9° 13.4 16° 13.0	2° 13.6 9° 13.6 16° 13.4	2° 14.5 9° 14.4 16° 14.2	2° 14.6 9° 14.5 16° 14.3	2° 15.1 9° 14.9 16° 14.6	
Beamwidth, Horizontal Tolerance, degrees	±4.1	±4.9	±5.6	±3.8	±3.7	±7.4	
Beamwidth, Vertical Tolerance, degrees	±1.1	±1.3	±1.3	±0.8	±1	±0.8	
USLS, beampeak to 20° above beampeak, dB	17	19	18	19	18	18	
Front-to-Back Total Power at 180° ± 30°, dB	23	21	28	30	28	26	
CPR at Boresight, dB	21	22	16	21	21	19	

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CPR at Sector, dB 11 4 7 9 9 11

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.48 \text{ m}^2 \mid 5.167 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.16 \text{ m}^2 \mid 1.722 \text{ ft}^2$

Mechanical Tilt Range 0°-15°

 Wind Loading @ Velocity, frontal
 509.0 N @ 150 km/h (114.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 169.0 N @ 150 km/h (38.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 660.0 N @ 150 km/h (148.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 419.0 N @ 150 km/h (94.2 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
 1582 mm | 62.283 in

 Weight, gross
 41 kg | 90.389 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 NoteSevere environmental conditions may degrade optimum performance

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