

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 85° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

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	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

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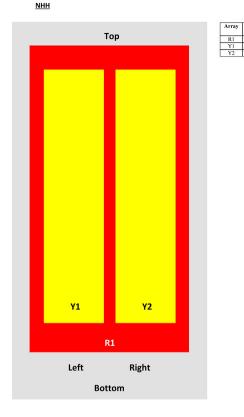


Protocol

Dimensions

301 mm 11.85 in
180 mm 7.087 in
1851 mm 72.874 in
19.8 kg 43.651 lb

Array Layout



View from the front of the antenna (Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance

Operating Frequency Band

50 ohm

1695 - 2360 MHz | 698 - 896 MHz

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3GPP/AISG 2.0 (Single RET)

301 mm	11.85 in
180 mm	7.087 in
1851 mm	72.874 in
19.8 kg	43.651 lb

AISG RET UID

Conns

Freq (MHz)

RET (SRET)

Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	14.4	14.4	17.1	17.6	17.9	18.1
Beamwidth, Horizontal, degrees	82.5	87	80	79.3	78	78
Beamwidth, Vertical, degrees	12.3	11.2	5.7	5.3	5	4.6
Beam Tilt, degrees	0-12	0-12	0-8	0-8	0-8	0-8
USLS (First Lobe), dB	18	16	14	16	17	18
Front-to-Back Ratio at 180°, dB	28	26	34	30	30	30
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	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	-153	-153	-153	-153	-153	-153
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	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	14.1	14.1	16.6	17.3	17.6	17.7
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.6	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0 ° 14.1 6 ° 14.2 12 ° 14.0	0 ° 14.0 6 ° 14.3 12 ° 13.8	0 ° 16.6 4 ° 16.6 8 ° 16.7	0 ° 17.3 4 ° 17.4 8 ° 17.3	0 ° 17.6 4 ° 17.6 8 ° 17.5	0 ° 17.6 4 ° 17.8 8 ° 17.6
Beamwidth, Horizontal Tolerance, degrees	±1.8	±2	±4.8	±4.0	±4.0	±2.6
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.9	±0.2	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	18	16	14	15	16	17
Front-to-Back Total Power at 180° ± 30°, dB	22	22	27	26	25	26
CPR at Boresight, dB	21	22	19	19	19	22

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CPR at Sector, dB	20	20	15	17	17	16		
Mechanical Specif	ications							
Effective Projective Area (EPA), frontal			0.27 m ² 2.906 ft ²					
Effective Projective Area (EPA), lateral			0.22 m ² 2.368 ft ²					
Mechanical Tilt Range			0°-15°					
Wind Loading @ Velocity, frontal			283.0 N @ 150 km/h (63.6 lbf @ 150 km/h)					
Wind Loading @ Velocity, la	iteral		234.0 N @ 15	0 km/h (52.6 lbf (@ 150 km/h)			
Wind Loading @ Velocity, m	naximum		545.0 N @ 15	0 km/h (122.5 lbf	@ 150 km/h)			
Wind Loading @ Velocity, re	ear		287.0 N @ 15	0 km/h (64.5 lbf (@ 150 km/h)			
Wind Speed, maximum			241 km/h (15	0 mph)				
Effective Projective Area (E Effective Projective Area (E Mechanical Tilt Range Wind Loading @ Velocity, fr Wind Loading @ Velocity, la Wind Loading @ Velocity, re	PA), frontal PA), lateral rontal iteral naximum		0.22 m ² 2. 0°-15° 283.0 N @ 15 234.0 N @ 15 545.0 N @ 15 287.0 N @ 15	368 ft² 0 km/h (63.6 lbf (0 km/h (52.6 lbf (0 km/h (122.5 lbf 0 km/h (64.5 lbf (@ 150 km/h) @ 150 km/h)			

Packaging and Weights

Width, packed	380 mm 14.961 in
Depth, packed	295 mm 11.614 in
Length, packed	1973 mm 77.677 in
Weight, gross	31.1 kg 68.564 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



Included Products

BSAMNT-3

Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

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