

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° 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	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 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

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10-30 Vdc
Internal Bias Tee	Port 1 Port 3
Internal RET	High band (1) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W

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Protocol

Dimensions

Width	301 mm 11.85 in
Depth	180 mm 7.087 in
Length	1828 mm 71.969 in
Net Weight, without mounting kit	19.8 kg 43.651 lb

Array

Freq (MHz)

Conns

RET (SRET)

Array Layout

<u>NHH</u>

	Тор	
_	_	t
Y1	Y2	
	R1	
Left	Right	
Вс	ottom	

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

Logo Image

3GPP/AISG 2.0 (Single RET)

301 mm 11.85 in
180 mm 7.087 in
1828 mm 71.969 in
19.8 kg 43.651 lb

AISG RET UID

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SVScore 7.0 7.0 (☆) 7.0 ₽ 7.0 ₽ 7.0

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	1920-2200	2300-2360
Gain, dBi	14.9	15	17.7	17.9	18.4	18.7
Beamwidth, Horizontal, degrees	65	60	71	69	64	57
Beamwidth, Vertical, degrees	12.4	11.2	5.7	5.2	4.9	4.6
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	0-7
USLS (First Lobe), dB	13	14	18	18	19	18
Front-to-Back Ratio at 180°, dB	30	29	31	30	29	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
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	300	300	300	300
		- ^				

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360

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Gain by all Beam Tilts, average, dBi	14.5	14.5	17.3	17.7	18.1	18.5	
Gain by all Beam Tilts Tolerance, dB	±0.6	±1.1	±0.4	±0.4	±0.5	±0.3	
Gain by Beam Tilt, average, dBi	0 ° 14.4 7 ° 14.6 14 ° 14.3	0 ° 14.7 7 ° 14.7 14 ° 14.1	0 ° 17.2 4 ° 17.3 7 ° 17.3	0 ° 17.6 4 ° 17.7 7 ° 17.7	0 ° 18.0 4 ° 18.2 7 ° 18.1	0 ° 18.3 4 ° 18.5 7 ° 18.6	
Beamwidth, Horizontal Tolerance, degrees	±2	±2.1	±3	±4.1	±6.5	±2.9	
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.3	±0.2	±0.3	±0.2	
USLS, beampeak to 20° above beampeak, dB	13	14	16	16	17	15	
Front-to-Back Total Power at 180° ± 30°, dB	23	22	27	27	25	25	
CPR at Boresight, dB	22	21	23	23	22	19	
CPR at Sector, dB	10	7	16	13	11	4	
Mechanical Specifications							
Effective Projective Area (EPA), frontal			0.26 m ² 2.799 ft ²				
Effective Projective Area (EPA),	lateral		0.22 m ² 2.368 ft ²				
Mechanical Tilt Range			0°-15°				
Wind Loading @ Velocity, frontal			278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)				
Wind Loading @ Velocity, lateral			230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)				
Wind Loading @ Velocity, maximum			537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)				
Wind Loading @ Velocity, rear			282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)				
Wind Speed, maximum			241 km/h (150	mph)			

Packaging and Weights

Width, packed	380 mm 14.961 in
Depth, packed	295 mm 11.614 in
Length, packed	1956 mm 77.008 in
Weight, gross	30.4 kg 67.02 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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REACH-SVHC

ROHS **UK-ROHS** Compliant as per SVHC revision on www.commscope.com/ProductCompliance

Compliant Compliant

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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