

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 33° HPBW, 2x RETs and 2x SBTs

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- 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 LB RET and one HB RET. Both high bands are controlled by one RET 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	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	1 W

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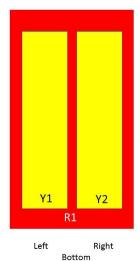


Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	640 mm 25.197 in
Depth	235 mm 9.252 in
Length	1830 mm 72.047 in
Net Weight, without mounting kit	43 kg 94.799 lb

(Sizes of colored boxes are not

true depictions of array sizes)

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANxxxxxxxxxxxxx1
Y1	1695-2360	3-4	2	
Y2	1695-2360	5-6	2	ANxxxxxxxxxxxxxxx2

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	1920-2200	2300-2360
Gain, dBi	17.6	18.3	19.6	20.2	20.8	21.6
Beamwidth, Horizontal, degrees	37	32	34	35	34	30
Beamwidth, Vertical, degrees	12.7	11.2	5.8	5.4	5.1	4.6
Beam Tilt, degrees	2-13	2-13	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	21	22	18	19	20	20
Front-to-Back Ratio at 180°, dB	34	39	36	39	39	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	28	28	28	28
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	-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	17.2	18.1	19.2	19.9	20.4	21.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.2	±0.6	±0.5	±0.5	±0.3
Gain by Beam Tilt, average, dBi	2 ° 17.2 7 ° 17.3 13 ° 17.1	2 ° 18.1 7 ° 18.2 13 ° 18.0	2 ° 18.9 7 ° 19.3 12 ° 19.4	2 ° 19.6 7 ° 20.0 12 ° 20.0	2 ° 20.0 7 ° 20.5 12 ° 20.4	2 ° 21.0 7 ° 21.5 12 ° 21.2
Beamwidth, Horizontal Tolerance, degrees	±2.8	±1.1	±1.7	±1.3	±1.7	±1.3
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	21	20	16	17	18	18
Front-to-Back Total Power at 180° ± 30°, dB	29	28	29	31	31	29
CPR at Boresight, dB	18	18	18	21	19	18
CPR at Sector, dB	12	13	13	14	14	11

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.72 m ² 7.75 ft ²
Effective Projective Area (EPA), lateral	0.24 m² 2.583 ft²
Mechanical Tilt Range	0°-15°
Wind Loading @ Velocity, frontal	765.0 N @ 150 km/h (172.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	251.0 N @ 150 km/h (56.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,041.0 N @ 150 km/h (234.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	752 mm 29.606 in
Depth, packed	387 mm 15.236 in
Length, packed	1379 mm 54.291 in

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Weight, gross

47.4 kg | 104.499 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant
150 9001:2015	

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.
BSAMNT-M	-	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

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