

4-port sector antenna, 4x 617–806 MHz, 65° HPBW, 1x RET, 600MHz-Ready Antenna Technology

Supports up to 15° of Mechanical Down Tilt

General Specifications

Antenna Type Sector

Band Single band

Color Light Gray (RAL 7035)

Grounding Type RF connector inner conductor and 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

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, low band 4

RF Connector Quantity, total 4

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage10-30 VdcInternal RETLow band (1)

Power Consumption, idle state, maximum 1 W
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

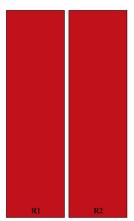
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Net Weight, without mounting kit

39.5 kg | 87.082 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID	
R1	617-806	1 - 2	65°	1	AISG1	AND and and and and and a	
R2	617-806	3 - 4	65°			AISGI	ANxxxxxxxxxxxxx1

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 617 – 806 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617-698	698-806
Gain, dBi	14.1	14.5
Beamwidth, Horizontal, degrees	66	60
Beamwidth, Vertical, degrees	14.8	13.3
Beam Tilt, degrees	2-14	2-14
USLS (First Lobe), dB	19	17
Front-to-Back Ratio at 180°, dB	34	30
Isolation, Cross Polarization, dB	28	28
Isolation, Inter-band, dB	28	28
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc		-153
Input Power per Port at 50°C, maximum, watts	250	250

Electrical Specifications, BASTA

Frequency Band, MHz 617-698 698-806

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Gain by all Beam Tilts, average, dBi	13.7	14.1
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.6
Gain by Beam Tilt, average, dBi	2° 13.5 8° 13.7 14° 13.6	2° 13.9 8° 14.2 14° 14.1
Beamwidth, Horizontal Tolerance, degrees	±3.4	±4.0
Beamwidth, Vertical Tolerance, degrees	±1	±1
USLS, beampeak to 20° above beampeak, dB	18	17
Front-to-Back Total Power at 180° ± 30°, dB	23	21
CPR at Boresight, dB	21	26
CPR at Sector, dB	7	9

Mechanical Specifications

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	1982 mm 78.032 in
Weight, gross	50.5 kg 111.333 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





BSAMNT-4

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

