

4-port sector antenna, 4x 694-960 MHz, 85° HPBW, 2x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Antenna shape optimized for wind load reduction

General Specifications

Antenna Type Sector

Band Single band

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

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 Hardware CommRET v2

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

RET Interface, quantity 1 female | 1 male

Input Voltage10-30 VdcInternal RETLow band (2)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 430 mm | 16.929 in

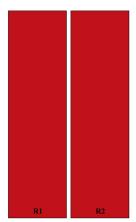
 Depth
 197 mm | 7.756 in

 Length
 2769 mm | 109.016 in

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Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxXR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 600 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	790-862	824-894	880-960
Gain, dBi	15.6	16.2	16.4	16.7
Beamwidth, Horizontal, degrees	89	81	81	77
Beamwidth, Vertical, degrees	8.3	7.7	7.4	7
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	19	18
Front-to-Back Ratio at 180°, dB	30	33	33	28
Isolation, Cross Polarization, dB	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	300	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz 698-806 790-862 824-894 880-960

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Gain by all Beam Tilts, average, dBi	15.3	15.9	16.2	16.4
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.4	±0.3
Beamwidth, Horizontal Tolerance, degrees	±10.1	±4.4	±3.5	±5.5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	14	14	16	16
Front-to-Back Total Power at 180° ± 30°, dB	23	24	25	24
CPR at Boresight, dB	25	26	26	25
CPR at Sector, dB	13	12	13	13

Mechanical Specifications

Wind Loading @ Velocity, frontal	680.0 N @ 150 km/h (152.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	347.0 N @ 150 km/h (78.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,023.0 N @ 150 km/h (230.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	434.0 N @ 150 km/h (97.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	356 mm 14.016 in
Length, packed	2897 mm 114.055 ir
Weight, gross	54.7 kg 120.593 lb
Weight, net	34.7 kg 76.5 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





Included Products

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.

BSAMNT-M4 – 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

Performance Note Severe environmental conditions may degrade optimum performance

