

20-port sector antenna, $4 \times 694-960$ MHz (R1-R2), and $8 \times 1695-2690$ MHz (Y1-Y4) 65° HPBW, $8 \times 2300-3800$ MHz (P1), 90° HPBW, $7 \times RET$

- Includes 1x 4-Column Array for 2300-3800MHz and calibration port. Column spacing optimized to support Soft Split Beamforming
- Q4 array uses M-LOC cluster connectors
- Seven internal RETs control the antenna arrays
- New aerodynamic endcaps for wind load optimization

General Specifications

Antenna Type Sector- and beamforming

Band Multiband

Calibration Connector Interface M-LOC

Calibration Connector Quantity

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 | M-LOC

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, mid band

RF Connector Quantity, low band

4

RF Connector Quantity, total

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (1) | Low band (2) | Mid band (4)

Power Consumption, active state, maximum 8 W

Page 1 of 9



Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

Width 498 mm | 19.606 in

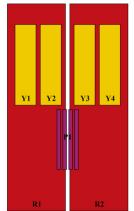
Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, antenna only 44.5 kg | 98.106 lb

TDD Column Spacing 58 mm | 2.283 in

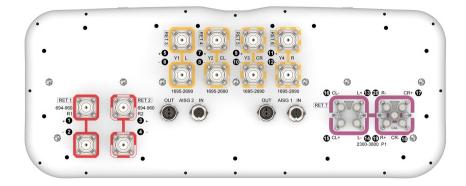
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxXY3
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxY4
P1	2300-3800	13 - 20	7	AISG1	CPxxxxxxxxxxxxxxP1

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 2300 – 3800 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	Y1-Y4	Y1-Y4	Y1-Y4	P1	P1
Frequency Band, MHz	694-790	790-890	890-960	1695-192	0 1920-220	0 2300-269	0 2300–269	0 3400-3800
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	13-20	13-20
Gain, dBi	15.8	16.2	16.4	15.8	17	17.6	15.9	16.6
Gain at Mid Tilt, dBi	15.6	16	16.3	15.6	16.7	17.4	15.2	16
Beamwidth, Horizontal, degrees	71	64	63	70	62	59	88	64
Beamwidth, Vertical, degrees	8.9	8	7.3	7.4	6.5	5.4	6	5.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	16	16	16	16	14	14
Front-to-Back Ratio at 180°, dB	30	30	30	30	30	30	30	28
Coupling level, Amp, Antenna port to Cal port, dB							26	26
Coupling level, max Amp Δ , Antenna port to Cal port, dB							±2	±2
Coupler, max Amp Δ , Antenna port to Cal port, dB							0.9	0.9
Coupler, max Phase Δ , Antenna port to Cal port, degrees							7	7
Isolation, Cross Polarization, dB	28	28	28	25	25	25	23	23
Isolation, Inter-band, dB	28	28	28	25	25	25	25	25
Isolation, Co-polarization, dB							20	20
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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-140	-140
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	75	75





Electrical Specifications, BASTA								
Frequency Band, MHz	694-790	790-890	890-960	1695-192	0 1920-220	00 2300-269	90 2300-269	90 3400-3800
Gain by all Beam Tilts, average, dBi	15.5	15.8	16.1	15.4	16.5	17.1	15.1	15.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4	±0.5	±0.7	±0.6	±1.1	±1
Gain by Beam Tilt, average, dBi	2° 15.4 7° 15.6 12° 15.4	2° 15.6 7° 16.0 12° 15.8	2° 16.0 7° 16.3 12° 15.8	2° 15.3 7° 15.6 12° 15.3	2° 16.3 7° 16.7 12° 16.3	2° 16.9 7° 17.4 12° 16.9	2° 14.9 7° 15.2 12° 15.0	2° 15.4 7° 16.0 12° 16.0
Beamwidth, Horizontal Tolerance, degrees	±6	±4	±3	±5	±7	±6	±18	±12
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.6	±0.3	±0.5	±0.6	±0.4	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	16	17	17	15	16	16	11	11
Front-to-Back Total Power at 180° ± 30°, dB	22	22	22	26	25	26	24	23
CPR at Boresight, dB	20	20	18	19	21	20	16	16
CPR at Sector, dB	12	9	12	8	6	3	8	5
Electrical Specificati	ons, Bro	padcast	65°					
Frequency Band, MHz							2300-269	90 3400-3800
Gain, dBi							17.7	17.4
Beamwidth, Horizontal, degrees							65	65
Beamwidth, Vertical, degrees							5.9	5.1
Front-to-Back Total Power at 180° ± 30°, dB							28	25
USLS (First Lobe), dB							14	15
Electrical Specifications, Envelope Pattern								
Frequency Band, MHz							2300-269	90 3400-3800
Gain, dBi							20.4	21.8
Beamwidth, Horizontal at 10 dB, degrees							125	120
Beamwidth, Vertical at 3 dB, degrees							5.9	5.1
Front-to-Back Total Power at 180° ± 30°, dB							28	27
USLS (First Lobe), dB							15	15

Page 4 of 9

Electrical Specifications, Service Beam

Frequency Band, MHz	2300-2690 3400-3800	
Steered 0° Gain, dBi	20.5	21.8
Steered 0° Beamwidth, Horizontal, degrees	24	18
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	30	29
Steered 0° Horizontal Sidelobe, dB	12	13
Steered 30° Gain, dBi	20	19.9
Steered 30° Beamwidth, Horizontal, degrees	28	22
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	30	25

Electrical Specifications, Soft Split

Frequency Band, MHz	2300-2690
Gain, dBi	19.7
Beamwidth, Horizontal, degrees	30
Front-to-Back Total Power at 180° ± 30°, dB	30
Horizontal Sidelobe, dB	18

Mechanical Specifications

Wind Loading @ Velocity, frontal	944.0 N @ 150 km/h (212.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	292.0 N @ 150 km/h (65.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,130.0 N @ 150 km/h (254.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	650.0 N @ 150 km/h (146.1 lbf @ 150 km/h)
Wind Chard mayimum	241 km/h (150 mnh)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2935 mm 115.551 in
Weight, gross	65 kg 143.3 lb

Page 5 of 9



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

Performance Note Severe environmental conditions may degrade optimum performance



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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-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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net4.5 kg | 9.921 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliantUK-ROHSCompliant





