

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

- Includes 1x 4-column array for 2300-3800 MHz and callibration port. Column spacing optimized to support soft split beamforming
- Q4 array uses MQ4/5 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	MQ5
Calibration Connector Quantity	1
Color	Light Gray (RAL 7035)
Grounding Type	RF 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 MQ4 MQ5
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

Remote Electrical Tilt (RET) Information

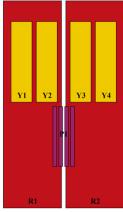
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10-30 Vdc
Internal RET	High band (1) Low band (2) Mid band (4)
Power Consumption, active state, maximum	8 W

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Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)
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

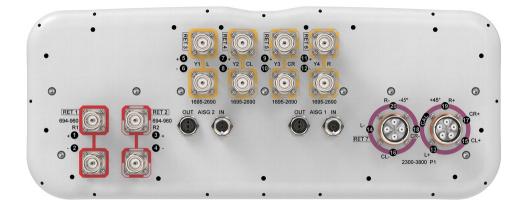
Array Layout



Array	ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1		694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1
R2		694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2
¥1		1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
¥2		1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxX2
Y3		1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
¥4		1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxXX
P1	i.	2300-3800	13 - 20	7	AISG1	CPxxxxxxxxxxxxxxxxP1

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

Port Configuration



Electrical Specifications

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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
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	-130	-130
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	1695-1920	0 1920-220	0 2300–269	0 2300–269	0 3400-3800
Gain by all Beam Tilts,	15.5	15.8	16.1	15.4	16.5	17.1	15.1	15.9

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average, dBi								
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4	±0.5	±0.7	±0.6	±1.1	±1
Beamwidth, Horizontal Tolerance, degrees	±б	±4	±3	±5	±7	±б	±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 Specifications, Broadcast 65°

Frequency Band, MHz	2300-269	0 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	2300-26	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

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	

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Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	30	29
Steered 0° Horizontal Sidelobe, dB	12	12
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

Effective Projective Area (EPA), frontal	0.89 m ² 9.58 ft ²
Effective Projective Area (EPA), lateral	0.27 m ² 2.906 ft ²
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 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

Regulatory Compliance/Certifications

Classification

CHINA-ROHS

Agency

Above maximum concentration value

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ISO 9001:2015

ROHS

UK-ROHS

Designed, manufactured and/or distributed under this quality management system Compliant/Exempted Compliant/Exempted



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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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	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	6.2 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

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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	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	4.5 kg 9.921 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets Hardware

Packaging quantity

Regulatory Compliance/Certifications

1

Agency Cla	lassification
CHINA-ROHS Be	elow maximum concentration value
ISO 9001:2015 De	esigned, manufactured and/or distributed under this quality management system
REACH-SVHC Cc	ompliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS Cc	ompliant
UK-ROHS Co	ompliant



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