

# 24-port sector antenna, 4x 694-960, 4x 1427-2690, 8x 1695-2690 MHz, 65° HPBW and 8x 3300-3800 MHz, 90° HPBW, 9x RET.

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Cluster connectors for the beam-forming array, including eight RF ports plus one calibration port
- Antenna shape optimized for wind load reduction
- Retractable tilt indicator rods
- Includes nine internal RET's
- S4 array uses MLOC cluster connectors

#### General Specifications

Antenna Type	Sector and beamforming
Band	Multiband
Calibration Connector Interface	M-LOC
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   M-LOC
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	24

#### 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 (6)

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Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 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
TDD Column Spacing	42 mm   1.654 in

### Array Layout

Y2

R1

			Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
			R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
			R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxR2
			¥1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxXXY1
¥3	¥4	¥6	¥2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxXX2
			¥3	1427-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxXXXXY3
P			¥4	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxXY4
			Y5	1695-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxXY5
			Y6	1695-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxXY6
		¥5	P1	3300-3800	17 - 24	9	AISG1	CPxxxxxxxxxxxxxP1

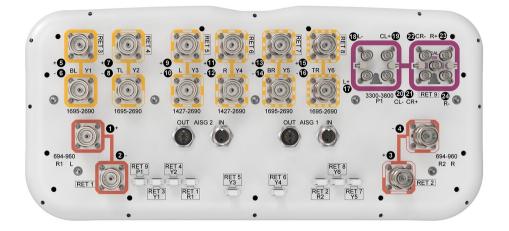
(Sizes of colored boxes are not true depictions of array sizes)

### Port Configuration

R2

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### **Electrical Specifications**

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz   1695 – 2690 MHz   3300 – 3800 MHz   694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

### **Electrical Specifications**

	R1,R2	R1,R2	R1,R2	Y3,Y4	Y3,Y4	Y3,Y4	Y1,Y2,Y5,Y	6Y1,Y2,Y5,Y	6P1
Frequency Band, MHz	694-790	790-890	880-960	1427-151	81695-220	02300-269	01695-2200	2300-2690	3300-3800
RF Port	1-4	1-4	1-4	9-12	9-12	9-12	5-8,13-16	5-8,13-16	17-24
Gain, dBi	15.6	16.2	16.4	15.5	17.3	18.3	17.1	17.9	15.8
Beamwidth, Horizontal, degrees	62	56	53	64	68	59	68	61	83
Beamwidth, Vertical, degrees	7.7	6.9	6.3	7	5.5	4.4	6.1	4.9	6.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	16	16	18	17	19	15	18	16

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Front-to-Back Ratio at 180°, dB	34	33	31	32	32	32	30	32	28
Coupling level, Amp, Antenna port to Cal port, dB									26
Coupling level, max Amp Δ, Antenna port to Cal port, dB									±2
Coupler, max Amp Δ, Antenna port to Cal port, dB									0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees									7
Isolation, Cross Polarization, dB	27	27	27	26	26	26	27	27	25
Isolation, Inter-band, dB	27	27	27	25	26	26	27	27	25
Isolation, Co-polarization, dB									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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153	-140
Input Power per Port at 50° C, maximum, watts	250	250	250	200	200	150	200	150	75

### Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1427-1518	81695-220	02300-269	01695-2200	2300-2690	3300-3800
Gain by all Beam Tilts, average, dBi	15.2	15.9	16.2	15.1	16.5	17.8	16.3	17.5	15
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.3	±0.7	±1.2	±0.6	±1.2	±0.5	±0.7
Beamwidth, Horizontal Tolerance, degrees	±7	±4	±4	±11	±9	±4	±9	±5	±20
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.3	±0.6	±0.2	±0.8	±0.3	±0.6
USLS, beampeak to 20° above beampeak, dB	15	16	16	16	16	18	14	15	13
Front-to-Back Total Power at 180° ± 30°, dB	23	23	23	23	26	26	25	25	22
CPR at Boresight, dB	28	26	23	17	17	17	20	20	16

### Electrical Specifications, Broadcast 65°

#### Frequency Band, MHz

Gain, dBi

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Beamwidth, Horizontal, degrees	65
Beamwidth, Vertical, degrees	6.3
Front-to-Back Total Power at 180° ± 30°, dB	25
USLS (First Lobe), dB	20
Electrical Specifications, Service Beam	
Frequency Band, MHz	3300-3800
Steered 0° Gain, dBi	20.8
Steered 0° Beamwidth, Horizontal, degrees	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	29
Steered 0° Horizontal Sidelobe, dB	15
Steered 30° Gain, dBi	19.6
Steered 30° Beamwidth, Horizontal, degrees	29
Steered 30° Front-to-Back Total Power at 180° ± 30°,	27

dB

### Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3800
Gain, dBi	19.7
Beamwidth, Horizontal, degrees	31
Front-to-Back Total Power at 180° ± 30°, dB	27
Horizontal Sidelobe, dB	18

### Mechanical Specifications

Wind Loading @ Velocity, frontal	651.0 N @ 150 km/h (146.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	351.0 N @ 150 km/h (78.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,028.0 N @ 150 km/h (231.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	421.0 N @ 150 km/h (94.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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### Packaging and Weights

Width, packed	530 mm   20.866 in
Depth, packed	356 mm   14.016 in
Length, packed	2897 mm   114.055 in
Weight, gross	75 kg   165.347 lb
Weight, net	53.8 kg   118.609 lb

### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted
502	

#### 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

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### 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.

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	6.5 kg   14.33 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets   Hardware
Packaging quantity	1
Pequilatoru Compliance/	

#### Regulatory Compliance/Certifications

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-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.

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	4.6 kg   10.141 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets   Hardware
Packaging quantity	1

#### 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



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