

14-port sector antenna, 2x 694–960, 4x 1695-2690 and 8x 2300–2690 MHz, 65° HPBW, 4x RET

- Combination of Tri-Band antenna and 2.4/2.6 GHz 8T8R beam forming antenna
- Internal SBT RET support via Calibration Port of 2.4/2.6 GHz array
- Optimized for Software Defined Split Six Sector applications on 2.4/2.6 GHz
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

General Specifications

Antenna Type	Sector
Band	Multiband
Calibration Connector Interface	4.3-10 Female
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 Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	12
RF Connector Quantity, low band	2
RF Connector Quantity, total	14

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 Bias Tee	Cal Port

Page 1 of 7



Internal RET	High band (3) Low band (1)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2688 mm 105.827 in
Net Weight, without mounting kit	37.8 kg 83.335 lb
TDD Column Spacing	58 mm 2.283 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID	
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxR1	
Y1	2300-2690	3-4			
Y2	2300-2690	5-6	2	CD:	
Y3	2300-2690	7-8	2	Z	CPxxxxxxxxxxxxxXXXXXY1
Y4	2300-2690	9-10			
Y5	1695-2690	11-12	3	CPxxxxxxxxxxxxxXXXXXY5	
Y6	1695-2690	13-14	4	CPxxxxxxxxxxxxxXXXXXXXXY6	

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

Port Configuration

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 10, 2023

COMMSCOPE®



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 2300 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1	R1	R1	Y1-Y4	Y1-Y4	Y5-Y6	Y5-Y6	Y5-Y6
Frequency Band, MHz	694-790	790-890	890-960	2300-250	0 2490-2690) 1695–1920	1920-2200	2300-2690
Gain, dBi	16.6	17	17.3	16.4	16.3	16.8	17.3	17.6
Beamwidth, Horizontal, degrees	68	67	65	94	95	62	61	63
Beamwidth, Vertical, degrees	8.4	7.5	6.9	5.7	5.3	7.3	6.5	5.5
Beam Tilt, degrees	0-10	0-10	0-10	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	19	20	16	17	16	18	21
Front-to-Back Ratio at 180°, dB	30	32	35	31	30	34	38	33
Coupling level, Amp, Antenna port to Cal port, dB				26	26			
Coupling level, max Amp Δ ,				±2	±2			

Page 3 of 7



Antenna port to Cal port, dB								
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	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	20	20	30	30	30
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	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	150	150	200	200	150

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	2300-250	0 2490-269	0 1695–192	0 1920–220	0 2300-2690
Gain by all Beam Tilts, average, dBi	16.4	16.9	17.1	15.6	15.5	16.4	17	17.1
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.3	±1.1	±1	±0.7	±0.3	±0.6
Gain by Beam Tilt, average, dBi	0 ° 16.2 5 ° 16.5 10 ° 16.4	0 ° 16.6 5 ° 17.0 10 ° 16.9	0 ° 16.9 5 ° 17.2 10 ° 17.1	2 ° 15.3 7 ° 15.8 12 ° 15.4	2 ° 15.2 7 ° 15.7 12 ° 15.3	2 ° 16.2 7 ° 16.4 12 ° 16.2	2 ° 16.7 7 ° 17.1 12 ° 16.8	2 ° 16.9 7 ° 17.3 12 ° 16.9
Beamwidth, Horizontal Tolerance, degrees	±1.1	±1.2	±0.8	±16.1	±10.8	±3.5	±2.2	±4.4
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.4	±0.2	±0.6	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	16	18	18	14	14	16	17	14
Front-to-Back Total Power at 180° ± 30°, dB	26	26	26	24	24	27	27	26
CPR at Boresight, dB	19	21	21	16	16	21	21	19
CPR at Sector, dB	13	12	13	10	11	10	12	8

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300-2500	0 2490-2690
Gain, dBi	17.2	17.1
Beamwidth, Horizontal, degrees	62	62
Beamwidth, Horizontal Tolerance, degrees	±3.4	±3.7

Page 4 of 7



Beamwidth, Vertical, degrees		5.7	5.3
Beamwidth, Vertical Tolerance, degrees		±0.4	±0.2
USLS (First Lobe), dB		17	17
Electrical Specifications, Service Beam	1		
Frequency Band, MHz		2300-250	0 2490–2690
Steered 0° Gain, dBi		21.3	21.2
Steered 0° Gain Tolerance, dBi		±0.4	±0.5
Steered 0° Beamwidth, Horizontal, degrees		26	25
Steered 0° CPR over 10 dB Beamwidth, dB		18	19
Steered 0° Horizontal Sidelobe, dB		13	11
Steered 30° Gain, dBi		20.6	20.5
Steered 30° Gain Tolerance, dBi		±0.4	±0.6
Steered 30° Beamwidth, Horizontal, degrees		27	26
Steered 30° CPR over 10 dB Beamwidth, dB		13	13
Electrical Specifications, Soft Split			
Frequency Band, MHz		2300-250	0 2490–2690
Gain, dBi		20.3	20.3
Beamwidth, Horizontal, degrees		31	30
Horizontal Sidelobe, dB		21	19
Mechanical Specifications			
Effective Projective Area (EPA), frontal	0.45 m ²	² 4.844 ft	2
Effective Projective Area (EPA), lateral	0.38 m ²	² 4.09 ft ²	
Mechanical Tilt Range	0°-12°		
Wind Loading @ Velocity, frontal	477.0 N	I @ 150 km/	/h (107.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	409.0 N	I @ 150 km/	/h (91.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,010.0	N @ 150 kn	n/h (227.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	506.0 N	I @ 150 km/	/h (113.8 lbf @ 150 km/h)

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 10, 2023

Page 5 of 7

COMMSCOPE®

Wind Speed, maximum241 km/h (150 mph)Packaging and Weights460 mm | 18.11 inWidth, packed460 mm | 18.11 inDepth, packed350 mm | 13.78 inLength, packed2830 mm | 111.417 in

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
ISO	

51.8 kg | 114.199 lb

Included Products

9001-2015

BSAMNT-4

Weight, gross

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

Page 6 of 7



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

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



Page 7 of 7

