

24-port sector antenna, 4x 694–960, 4x 1427–1518, 4x 1695-2180, 4x 2490-2690 65° HPBW and 8x 3300-3800 MHz, 7x RET

- Integrated with a calibration board
- Optimized for Software Defined Split 6 Sector applications
- 2 columns for 694-960 MHz and 2 columns for 1427-1518 / 1695-2180 / 2490-2690 MHz and 4 columns for 3300-3800 MHz
- Seven internal RETs control the antenna arrays
- MQ4/MQ5 cluster connector for 3.3-3.8GHz, equipped with calibration port

General Specifications

Antenna Type Sector- and beamforming

Band Multiband

Calibration Connector Interface MQ5

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 | MQ4 | MQ5

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 1 female | 1 male

Input Voltage 10-30 Vdc

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

COMMSCOPE®

Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

 Width
 498 mm | 19.606 in

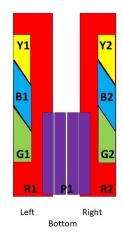
 Depth
 197 mm | 7.756 in

 Length
 1499 mm | 59.016 in

 Net Weight, antenna only
 37.8 kg | 83.335 lb

 TDD Column Spacing
 42 mm | 1.654 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxR2
G1	1427-1518	5-6	3	CPxxxxxxxxxxxxxxG1
G2	1427-1518	7-8	3	CPXXXXXXXXXXXXXXXII
B1	1695-2180	9-10	4	CPxxxxxxxxxxxxxxB1
B2	1695-2180	11-12	5	CPxxxxxxxxxxxxxxB2
Y1	2490-2690	13-14	6	CPxxxxxxxxxxxxxY1
Y2	2490-2690	15-16	6	CPXXXXXXXXXXXXXXXXXXI
P1	3300-3800	17-24	7	CPxxxxxxxxxxxxxxXP1

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

COMMSC@PE"

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 1518 MHz | 1695 – 2180 MHz | 2496 – 2690 MHz | 3300 – 3800

MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	890-960	1427-1518	1695-2180	2490-2690	3300-3800
Gain, dBi	13.4	13.5	13.8	14.9	15.9	16.8	15.9
Beamwidth, Horizontal, degrees	60	60	60	59	68	57	91
Beamwidth, Vertical, degrees	17.2	15.8	15	8.1	6.5	4.9	6.5
Beam Tilt, degrees	2-16	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	21	17	17	17	17	16	16
Front-to-Back Ratio at 180°, dB	30	29	29	31	29	30	28
Coupling level, Amp, Antenna port to Cal port, dB							26
Coupling level, max Amp Δ, Antenna port to Cal port, dB							±2

Page 3 of 8



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	26	26	26	25	25	25	25
Isolation, Inter-band, dB	26	26	26	28	28	28	28
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-130
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	150	75
Electrical Specificati	ons, BAS	STA					
Frequency Band, MHz	694-790	790-890	890-960	1427-1518	1695-2180	2490-2690	3300-3800
Gain by all Beam Tilts, average, dBi	13.1	13.1	13.5	14.5	15.3	16.2	15.2
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.6	±0.4	±0.8	±0.8	±0.9	±0.8
Beamwidth, Horizontal Tolerance, degrees	±8.4	±6.8	±5.2	±5	±5.5	±4.6	±19.2
Beamwidth, Vertical Tolerance, degrees	±1.1	±1.2	±1.1	±0.5	±0.8	±0.3	±0.6
USLS, beampeak to 20° above beampeak, dB	16	16	15	13	15	13	14
Front-to-Back Total Power at 180° ± 30°, dB	20	19	21	24	23	25	21
CPR at Boresight, dB	20	19	19	13	18	16	15
Electrical Specifications, Broadcast 65°							
Frequency Band, MHz							3300-3800
Gain, dBi							16.5
Beamwidth, Horizontal, degrees							63
Beamwidth, Vertical, degrees							6.6
USLS (First Lobe), dB							17
Electrical Specifications, Service Beam							
Frequency Band, MHz					3300-3800		

Page 4 of 8



אכט וכווווווווווווו		
Steered 0° Gain, dBi		20.6
Steered 0° Beamwidth, Horizontal, degrees		24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB		27
Steered 0° Horizontal Sidelobe, dB		15
Steered 0° USLS (First Lobe), dB		17
Steered 30° Gain, dBi		19.7
Steered 30° Beamwidth, Horizontal, degrees		27
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB		26
Electrical Specifications, Soft	Split	
Frequency Band, MHz		3300-3800
Gain, dBi		19.6
Beamwidth, Horizontal, degrees		32
Front-to-Back Total Power at 180° ± 30°, dB		26
Horizontal Sidelobe, dB		19
USLS (First Lobe), dB		18
Mechanical Specifications		
Wind Loading @ Velocity, frontal	498.0 N @ 150 km/h (112.0 lbf @ 150 km/h)	
Wind Loading @ Velocity, lateral	148.0 N @ 150 km/h (33.3 lbf @ 150 km/h)	
Wind Loading @ Velocity, maximum	597.0 N @ 150 km/h (134.2 lbf @ 150 km/h)	
Wind Loading @ Velocity, rear	342.0 N @ 150 km/h (76.9 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	1686 mm 66.378 in
Weight, gross	50.7 kg 111.774 lb

Page 5 of 8



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



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.

* 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	$\label{thm:constraint} \mbox{Designed, manufactured and/or distributed under this quality management system}$
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant





