

8-port multibeam antenna, 8x 1695–2400 MHz, 4x 38° HPBW, 4x RET with retractable tilt rods

- Enhances network capacity through six sectors site application with only three antenna faces
- Maximizes frequency spectrum utilization to increase Average Revenue Per User (ARPU)
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs
- High gain with excellent sector edge roll-off and azimuth sidelobe suppression
- Each antenna downtilt can be independently adjusted for greater flexibility in network optimization
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

OBSOLETE

This product was discontinued on: March 31, 2023

Replaced By:

2HH-38A-R4-V2 8-port multibeam antenna, 8x 1695-2200 MHz, 4x 38° HPBW, 4x RET

General Specifications

Antenna Type Multibeam

Band Single band

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 8

RF Connector Quantity, total

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

COMMSCOPE®

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 (4)

Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

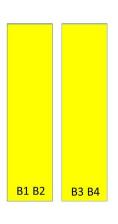
 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 1350 mm | 53.15 in

Net Weight, without mounting kit 30.8 kg | 67.902 lb

Array Layout



Α	rray	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
	B1	1695-2400	1-2	1	CPxxxxxxxxxxxxxB1
	B2	1695-2400	3-4	2	CPxxxxxxxxxxxxxB2
	ВЗ	1695-2400	5-6	3	CPxxxxxxxxxxxxxB3
	B4	1695-2400	7-8	4	CPxxxxxxxxxxxxxB4

Left Right Bottom

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz

Polarization ±45°

Total Input Power, maximum 400 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400
Gain, dBi	19.1	19.7	19.9	19.4
Beam Centers, Horizontal, degrees	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	38	35.8	33	29
Beamwidth, Vertical, degrees	7.4	7	6.6	5.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	20	19	17
Front-to-Back Ratio at 180°, dB	37	37	35	33
Isolation, Cross Polarization, dB	28	28	28	28
Isolation, Inter-band, dB	16	16	16	16
VSWR Return loss, dB	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150

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Input Power per Port at 50°C, maximum, watts	200	200	200	200	
Electrical Specifications,	Electrical Specifications, BASTA				
Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400	
Gain by all Beam Tilts, average, dBi	18.7	19.4	19.5	18.9	
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.6	±0.7	
Gain by Beam Tilt, average, dBi	2° 18.7 7° 18.8 12° 18.6	2° 19.2 7° 19.4 12° 19.3	2° 19.5 7° 19.8 12° 19.1	2° 19.0 7° 19.0 12° 18.7	
Beamwidth, Horizontal Tolerance, degrees	±2	±1.7	±3	±2.9	
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.3	
USLS, beampeak to 20° above beampeak, dB	16	18	17	15	
Front-to-Back Total Power at 180° ± 30°, dB	29	30	29	25	
CPR at Boresight, dB	21	22	19	13	
CPR at Sector, dB	12	13	11	5	
Mechanical Specifications	5				
Mechanical Tilt Range		0°-24°			
Wind Loading @ Velocity, frontal		557.0 N @ 150 km/h (125.2 lbf @ 150 km/h)			
Wind Loading @ Velocity, lateral	175.0 N @ 150 km/h (39.3 lbf @ 150 km/h)				
Wind Loading @ Velocity, maximum	759.0 N @ 150 km/h (170.6 lbf @ 150 km/h)				
Wind Loading @ Velocity, rear	574.0 N @ 150 km/h (129.0 lbf @ 150 km/h)				
Wind Speed, maximum		241 km/h (150 mph)			
Packaging and Weights					
Width, packed	797 mm 31.378 in				
Depth, packed	402 mm 15.827 in				

1501 mm | 59.095 in

41.7 kg | 91.933 lb

Regulatory Compliance/Certifications

Agency Classification

Length, packed Weight, gross

CHINA-ROHS Above maximum concentration value

COMMSCOPE®

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

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





