

#### 8-port multibeam antenna, 8x 1695–2200 MHz, 4x 38° HPBW, 4x RET

- 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

### 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	8

#### Remote Electrical Tilt (RET) Information

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 (4)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)

#### Dimensions

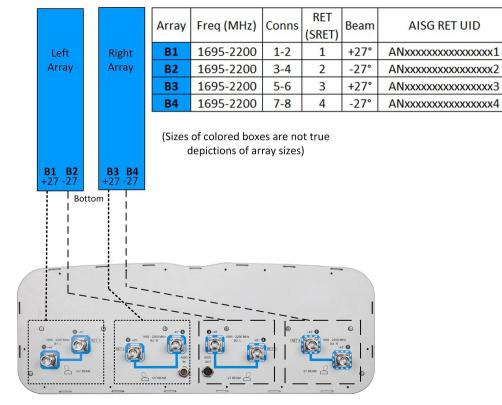
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# 2HH-38A-R4-V2

Width	640 mm   25.197 in
Depth	235 mm   9.252 in
Length	1224 mm   48.189 in
Net Weight, without mounting kit	29.7 kg   65.477 lb

### Array Layout



Port Configuration

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## **Electrical Specifications**

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

# **Electrical Specifications**

1695-1880	1850-1990	1920-2200
19.3	19.7	20
±27	±27	±27
38	35.8	34
7.7	7.3	6.8
2-10	2-10	2-10
24	24	23
24	24	24
36	36	34
30	30	30
17	17	17
1.43   15.0	1.43   15.0	1.43   15.0
	19.3 ±27 38 7.7 2–10 24 24 36 30 17	19.319.7±27±273835.87.77.32-102-102424363630301717

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# 2HH-38A-R4-V2

PIM, 3rd Order, 2 x 20 W, dBc Input Power per Port at 50°C, maximum, watts	-153 200	-153 200	-153 200
Electrical Specifications, BASTA			
Frequency Band, MHz	1695-1880	1850-1990	1920-2200
Gain by all Beam Tilts, average, dBi	18.9	19.4	19.6
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.7
Gain by Beam Tilt, average, dBi	2 °   18.8 6 °   19.0 10 °   18.9	2 °   19.3 6 °   19.5 10 °   19.4	2 ° 19.8 6 ° 19.7 10 ° 19.2
Beamwidth, Horizontal Tolerance, degrees	±1.6	±1.7	±3.2
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.6
USLS, beampeak to 20° above beampeak, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	28	29	28
CPR at Boresight, dB	21	22	21
CPR at Sector, dB	11	13	12

# Mechanical Specifications

Wind Loading @ Velocity, frontal	505.0 N @ 150 km/h (113.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	156.0 N @ 150 km/h (35.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	688.0 N @ 150 km/h (154.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	520.0 N @ 150 km/h (116.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

# Packaging and Weights

Width, packed	752 mm   29.606 in
Depth, packed	387 mm   15.236 in
Length, packed	1379 mm   54.291 in
Weight, gross	44.1 kg   97.224 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

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# 2HH-38A-R4-V2



## 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

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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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