



4-port multibeam antenna, 4x 1710–2180 MHz, 2x 38° HPBW, RET compatible

- Enhances network capacity through six sectors site application with only three antenna faces
- Single panel design supporting two separate beams perfectly optimized at horizontal pointing angles of +27 degrees and –27 degrees from boresight
- 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

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	19.3	19.6	19.9
Beam Centers, Horizontal, degrees	±27	±27	±27
Beamwidth, Horizontal, degrees	38	36	34
Beamwidth, Vertical, degrees	7.6	7.1	6.7
Beam Tilt, degrees	0–10	0–10	0–10
Horizontal Sidelobe, dB	24	24	22
USLS (First Lobe), dB	23	23	23
Gain Roll-off at Boresight, dB	10	9	9
Gain Roll-off at Boresight Tolerance, dB	±0.7	±0.8	±0.9
Front-to-Back Ratio at 180°, dB	33	34	35
Isolation, Cross Polarization, port to port, dB	30	30	30
VSWR   Return Loss, dB	1.43   15.0	1.43   15.0	1.43   15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	18.9	19.4	19.6
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.6
Gain by Beam Tilt, average, dBi	0 °   18.7 5 °   19.0 10 °   18.9	0 °   19.1 5 °   19.5 10 °   19.4	0 °   19.5 5 °   19.7 10 °   19.2
Beamwidth, Horizontal Tolerance, degrees	±1.5	±1.2	±2.1
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5
USLS, beampeak to 20° above beampeak, dB	17	18	18

# HBXX-3817TB1-VTM | HBXX-3817TB1-A2M

Front-to-Back Total Power at 180° ± 30°, dB	29	30	28
CPR at Boresight, dB	24	24	18
CPR at Sector, dB	12	15	13

\* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

## General Specifications

<b>Operating Frequency Band</b>	1710 – 2180 MHz
<b>Antenna Type</b>	Multibeam
<b>Band</b>	Single band
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	4
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Interface</b>	7-16 DIN Female
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Low loss circuit board
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	202.0 N @ 150 km/h   45.4 lbf @ 150 km/h
<b>Wind Loading, lateral</b>	166.0 N @ 150 km/h   37.3 lbf @ 150 km/h
<b>Wind Loading, maximum</b>	388.0 N @ 150 km/h 87.2 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	241 km/h   150 mph

## Dimensions

<b>Length</b>	1390.0 mm   54.7 in
<b>Width</b>	301.0 mm   11.9 in
<b>Depth</b>	181.0 mm   7.1 in
<b>Net Weight, without mounting kit</b>	13.6 kg   30.0 lb

## Remote Electrical Tilt (RET) Information

**Model with Factory Installed AISG 2.0 Actuator** HBXX-3817TB1-A2M

## Packed Dimensions

<b>Length</b>	1598.0 mm   62.9 in
<b>Width</b>	404.0 mm   15.9 in
<b>Depth</b>	310.0 mm   12.2 in
<b>Shipping Weight</b>	25.0 kg   55.1 lb

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015  
China RoHS SJ/T 11364-2014  
CE

### Classification

Compliant by Exemption  
Designed, manufactured and/or distributed under this quality management system  
Above Maximum Concentration Value (MCV)  
Compliant with the relevant CE product directives



## 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