

# HBX-3319DS-VTM | HBX-3319DS-A1M



2-port sector antenna, 2x 1710–2180 MHz, 33° HPBW, RET compatible

- Exceptional horizontal roll-off and front-to-back ratio for superior capacity efficiency
- Extended elevation tilt for maximum flexibility in urban core areas
- Rugged, reliable design with excellent passive intermodulation suppression

## OBSOLETE

This product was discontinued on: November 30, 2023

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	PVC, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	2
<b>RF Connector Quantity, total</b>	2

## Remote Electrical Tilt (RET) Information

<b>Model with Factory Installed AISG 2.0 Actuator</b>	HBX-3319DS-A1M
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## Dimensions

<b>Width</b>	269 mm   10.591 in
<b>Depth</b>	132 mm   5.197 in
<b>Length</b>	1463 mm   57.598 in
<b>Net Weight, without mounting kit</b>	12.7 kg   27.999 lb

## Array Layout

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Array	Freq (MHz)	Conns
B1	1710-2180	1-2

Bottom

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

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2180 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
<b>Gain, dBi</b>	20.5	20.7	21
<b>Beamwidth, Horizontal, degrees</b>	35	34	32
<b>Beamwidth, Vertical, degrees</b>	7	6.6	6.2
<b>Beam Tilt, degrees</b>	0–9	0–9	0–9
<b>USLS (First Lobe), dB</b>	18	18	18
<b>Front-to-Back Ratio at 180°, dB</b>	40	40	40
<b>CPR at Boresight, dB</b>	19	19	17
<b>Isolation, Cross Polarization, dB</b>	30	30	30
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	300	300	300

## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
<b>Gain by all Beam Tilts, average, dBi</b>	19.9	20.2	20.7

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<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.5	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	0°   20.0 5°   20.1 9°   19.6	0°   20.4 5°   20.4 9°   19.8	0°   20.9 5°   20.9 9°   20.3
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.4	±0.7	±2.6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.4	±0.4	±0.4
<b>USLS, beampeak to 20° above beampeak, dB</b>	18	19	20
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	31	30	30
<b>CPR at Boresight, dB</b>	19	19	17

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	406.0 N @ 150 km/h (91.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	103.0 N @ 150 km/h (23.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	506.0 N @ 150 km/h (113.8 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	376 mm   14.803 in
<b>Depth, packed</b>	267 mm   10.512 in
<b>Length, packed</b>	1776 mm   69.921 in
<b>Weight, gross</b>	22.2 kg   48.943 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

600899A-2	-	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.
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\* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

# 600899A-2



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** 114.3 mm | 4.5 in

**Compatible Diameter, minimum** 61 mm | 2.402 in

**Weight, net** 3.9 kg | 8.598 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 4.2 kg | 9.259 lb

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REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
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600899A-2

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