

# HBX-4519DS-VTM



2-port sector antenna, 2x 1710–2170 MHz, 45° HPBW, RET compatible

- Ideal for high gain corridor coverage or capacity optimization
- Rugged, reliable design with excellent passive intermodulation suppression

## OBSOLETE

This product was discontinued on: December 31, 2018

### Replaced By

HBX-4519DS-A1M      2-port sector antenna, 2x 1710–2170 MHz, 45° HPBW, RET compatible

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	20.1	20.4	20.8
Beamwidth, Horizontal, degrees	46	47	44
Beamwidth, Vertical, degrees	4.9	4.7	4.5
Beam Tilt, degrees	0–5	0–5	0–5
USLS (First Lobe), dB	22	22	20
Front-to-Back Ratio at 180°, dB	33	35	35
Isolation, Cross Polarization, dB	30	30	30
VSWR   Return Loss, dB	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350
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	19.9	20.1	20.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.5
Gain by Beam Tilt, average, dBi	0 °   19.9 3 °   20.0 5 °   19.7	0 °   20.2 3 °   20.3 5 °   19.9	0 °   20.6 3 °   20.6 5 °   20.3
Beamwidth, Horizontal Tolerance, degrees	±1.4	±0.9	±5.4
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	17	16	14

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Front-to-Back Total Power at 180° ± 30°, dB	28	30	30
CPR at Boresight, dB	21	24	22
CPR at Sector, dB	14	16	12

\* 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>	Sector
<b>Band</b>	Single band
<b>Performance Note</b>	Outdoor usage

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	2
<b>RF Connector Quantity, high band</b>	2
<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>	PVC, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	148.8 lbf @ 150 km/h   659.0 N @ 150 km/h
<b>Wind Loading, lateral</b>	143.0 N @ 150 km/h   32.1 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	201 km/h   125 mph

## Dimensions

<b>Length</b>	1938.0 mm   76.3 in
<b>Width</b>	269.0 mm   10.6 in
<b>Depth</b>	132.0 mm   5.2 in
<b>Net Weight, without mounting kit</b>	16.3 kg   35.9 lb

## Packed Dimensions

<b>Length</b>	2251.0 mm   88.6 in
<b>Width</b>	376.0 mm   14.8 in
<b>Depth</b>	267.0 mm   10.5 in
<b>Shipping Weight</b>	27.4 kg   60.4 lb

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## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU

ISO 9001:2015

China RoHS SJ/T 11364-2014

### Classification

Compliant by Exemption

Designed, manufactured and/or distributed under this quality management system

Above Maximum Concentration Value (MCV)



## 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.

## \* Footnotes

### Performance Note

Severe environmental conditions may degrade optimum performance