

# HBX-6513DS-VTM



2-port sector antenna, 2x 1710–2180 MHz, 65° HPBW, RET compatible

- Rugged, reliable design with excellent passive intermodulation suppression

**OBSOLETE**

This product was discontinued on: **March 30, 2024**

## 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, mid band</b>	0
<b>RF Connector Quantity, low band</b>	0
<b>RF Connector Quantity, total</b>	2

## Dimensions

<b>Width</b>	166 mm   6.535 in
<b>Depth</b>	83 mm   3.268 in
<b>Length</b>	695 mm   27.362 in
<b>Net Weight, without mounting kit</b>	2.8 kg   6.173 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2180 MHz

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**Polarization** ±45°

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>
<b>Gain, dBi</b>	15	15	15.5
<b>Beamwidth, Horizontal, degrees</b>	68	66	64
<b>Beamwidth, Vertical, degrees</b>	15	14.1	13.5
<b>Beam Tilt, degrees</b>	0–18	0–18	0–18
<b>USLS (First Lobe), dB</b>	16	16	16
<b>Front-to-Back Ratio at 180°, dB</b>	28	30	28
<b>CPR at Boresight, dB</b>	20	19	19
<b>CPR at Sector, dB</b>	7	8	8
<b>Isolation, Cross Polarization, dB</b>	30	30	30
<b>VSWR   Return loss, dB</b>	1.4   15.6	1.4   15.6	1.4   15.6
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	350	350	350

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	119.0 N @ 150 km/h (26.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	33.0 N @ 150 km/h (7.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	147.0 N @ 150 km/h (33.0 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	277 mm   10.906 in
<b>Depth, packed</b>	188 mm   7.402 in
<b>Length, packed</b>	1000 mm   39.37 in
<b>Weight, gross</b>	8.8 kg   19.401 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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

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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

- |        |   |   |
|--------|---|---|
| DB390  | - | Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts. |
| DB5098 | - | Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members   |

## \* Footnotes

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