

# HBX-6513DS-VTM



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

- Rugged, reliable design with excellent passive intermodulation suppression

This product will be 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, 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
<b>Polarization</b>	±45°

## Electrical Specifications

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

## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	14.3	14.4	14.6
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.7	±0.8
Gain by Beam Tilt, average, dBi	0°   14.7 9°   14.4 18°   13.5	0°   14.8 9°   14.6 18°   13.5	0°   15.2 9°   14.6 18°   13.7
Beamwidth, Horizontal Tolerance, degrees	±2.1	±1.4	±3.1
Beamwidth, Vertical Tolerance, degrees	±1.2	±0.7	±1
USLS, beampeak to 20° above beampeak, dB	17	17	18
Front-to-Back Total Power at 180° ± 30°, dB	24	24	23
CPR at Boresight, dB	20	18	18
CPR at Sector, dB	6	8	10

## Mechanical Specifications

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

## Packaging and Weights

Width, packed	277 mm   10.906 in
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<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
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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# 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.

## Product Classification

**Product Type** Pipe mount 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** 2 kg | 4.409 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 2.1 kg | 4.63 lb

## Regulatory Compliance/Certifications

Agency	Classification
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



# DB5098



Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

## 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** 0.7 kg | 1.543 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 0.8 kg | 1.764 lb

## Regulatory Compliance/Certifications

Agency	Classification
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

