

# HBX-6517DS-VTM | HBX-6517DS-A1M



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

- Superior azimuth tracking and pattern symmetry to minimize any sector overlap
- Rugged, reliable design with excellent passive intermodulation suppression

## OBSOLETE

This product was discontinued on: March 31, 2021

## 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-6517DS-A1M
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## Dimensions

<b>Width</b>	166 mm   6.535 in
<b>Depth</b>	83 mm   3.268 in
<b>Length</b>	1902 mm   74.882 in
<b>Net Weight, without mounting kit</b>	6.2 kg   13.669 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>	19	19.1	19.2
<b>Beamwidth, Horizontal, degrees</b>	67.3	65.8	63.9
<b>Beamwidth, Vertical, degrees</b>	5	4.7	4.4
<b>Beam Tilt, degrees</b>	0–6	0–6	0–6
<b>USLS (First Lobe), dB</b>	18	18	18
<b>Front-to-Back Ratio at 180°, dB</b>	30	30	30
<b>CPR at Boresight, dB</b>	21	21	20
<b>CPR at Sector, dB</b>	11	10	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

## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
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<b>Gain by all Beam Tilts, average, dBi</b>	18.5	18.6	18.9
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.2	±0.3	±0.4
<b>Gain by Beam Tilt, average, dBi</b>	0°   18.3 3°   18.6 6°   18.4	0°   18.4 3°   18.7 6°   18.6	0°   18.8 3°   19.1 6°   18.7
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.8	±0.9	±2.8
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.2	±0.2	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	19	19	18
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	25.7	25.7	25.7
<b>CPR at Boresight, dB</b>	22	22	22
<b>CPR at Sector, dB</b>	11	11	9

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	393.0 N @ 150 km/h (88.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	106.0 N @ 150 km/h (23.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	488.0 N @ 150 km/h (109.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	273 mm   10.748 in
<b>Depth, packed</b>	188 mm   7.402 in
<b>Length, packed</b>	2038 mm   80.236 in
<b>Weight, gross</b>	14 kg   30.865 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



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## 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.
- DB5098E – 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

# 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



# DB5098E



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** 1.2 kg | 2.646 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 1.4 kg | 3.086 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

# DB5098E

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