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

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

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator	HBX-6517DS-A1M
Dimensions	
Width	166 mm 6.535 in
Depth	83 mm 3.268 in
Length	1902 mm 74.882 in
Net Weight, without mounting kit	6.2 kg 13.669 lb

Array Layout

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

Bottom

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2180 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz

Frequency Band, MHz	1710-1880	1850-1990	1920-2180
Gain, dBi	19	19.1	19.2
Beamwidth, Horizontal, degrees	67.3	65.8	63.9
Beamwidth, Vertical, degrees	5	4.7	4.4
Beam Tilt, degrees	0-6	0-6	0-6
USLS (First Lobe), dB	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	21	21	20
CPR at Sector, dB	11	10	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			

1920-2180

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1710-1880

1850-1990

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Gain by all Beam Tilts, average, dBi	18.5	18.6	18.9
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.3	±0.4
Gain by Beam Tilt, average, dBi	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
Beamwidth, Horizontal Tolerance, degrees	±1.8	±0.9	±2.8
Beamwidth, Vertical Tolerance, degrees	±0.2	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	19	19	18
Front-to-Back Total Power at 180° ± 30°, dB	25.7	25.7	25.7
CPR at Boresight, dB	22	22	22
CPR at Sector, dB	11	11	9

Mechanical Specifications

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

Packaging and Weights

Width, packed	273 mm 10.748 in
Depth, packed	188 mm 7.402 in
Length, packed	2038 mm 80.236 in
Weight, gross	14 kg 30.865 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 www.commscope.com/ProductCompliance
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

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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

Regulatory Compliance/Certifications

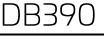
Weight, gross

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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

2.1 kg | 4.63 lb

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DB5098E



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

Downtilt mounting kit
Outdoor
Silver
114.3 mm 4.5 in
61 mm 2.402 in
1.2 kg 2.646 lb
Galvanized steel
Brackets Hardware

Regulatory Compliance/Certifications

1

1.4 kg | 3.086 lb

Packaging quantity

Weight, gross

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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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