

HBX-4517DS1-VTM | HBX-4517DS1-A1M



2-port sector antenna, 2x 1710–2180 MHz, 45° HPBW, RET compatible. Ideal for high gain corridor coverage or capacity optimization.

OBSOLETE

This product was discontinued on: March 27, 2020

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
Reflector Material	Aluminum
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-4517DS1-A1M
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Dimensions

Width	269 mm 10.591 in
Depth	132 mm 5.197 in
Length	1464 mm 57.638 in

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Net Weight, without mounting kit

12.3 kg | 27.117 lb

Array Layout



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

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	1710–1880	1850–1990	1920–2180
Gain, dBi	19.1	19.2	19.6
Beamwidth, Horizontal, degrees	45	45	43
Beamwidth, Vertical, degrees	6.5	6.1	5.8
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	17	18	18
Front-to-Back Ratio at 180°, dB	32	32	31
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	300	300	300

Electrical Specifications, BASTA

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Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	18.9	18.9	19.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.7
Gain by Beam Tilt, average, dBi	0° 18.8 5° 19.0 10° 18.7	0° 18.7 5° 19.0 10° 18.8	0° 19.2 5° 19.4 10° 18.9
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.3	±3.1
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.4
USLS, beampeak to 20° above beampeak, dB	14	15	14
Front-to-Back Total Power at 180° ± 30°, dB	30	31	29
CPR at Boresight, dB	24	23	22
CPR at Sector, dB	14	14	14

Mechanical Specifications

Wind Loading @ Velocity, frontal	466.0 N @ 150 km/h (104.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	103.0 N @ 150 km/h (23.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	506.0 N @ 150 km/h (113.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	376 mm 14.803 in
Depth, packed	267 mm 10.512 in
Length, packed	1776 mm 69.921 in
Weight, gross	20.6 kg 45.415 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

- 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