HBX-3319DS-VTM | HBX-3319DS-A1M



2-port sector antenna, 2x 1710–2180 MHz, 33° HPBW, RET compatible

- Exceptional horizontal roll-off and front-to-back ratio for superior capacity efficiency
- Extended elevation tilt for maximum flexibility in urban core areas
- Rugged, reliable design with excellent passive intermodulation suppression

General Specifications

Antenna Type	Sector
Band	Single band
Color	Light gray
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-3319DS-A1M

Dimensions

Width	269 mm | 10.591 in
Depth	132 mm | 5.197 in
Length	1463 mm | 57.598 in
Net Weight, without mounting kit	12.7 kg | 27.999 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

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

Electrical Specifications

Frequency Band, MHz	**1710–1880**	**1850–1990**	**1920–2180**
Gain, dBi	20.5	20.7	21
Beamwidth, Horizontal, degrees	35	34	32
Beamwidth, Vertical, degrees	7	6.6	6.2
Beam Tilt, degrees	0–9	0–9	0–9
USLS (First Lobe), dB	18	18	18
Front-to-Back Ratio at 180°, dB	40	40	40
CPR at Boresight, dB	19	19	17
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

Frequency Band, MHz	**1710–1880**	**1850–1990**	**1920–2180**
Gain by all Beam Tilts, average, dBi	19.9	20.2	20.7

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Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0 ° | 20.0 5 ° | 20.1 9 ° | 19.6	0 ° | 20.4 5 ° | 20.4 9 ° | 19.8	0 ° | 20.9 5 ° | 20.9 9 ° | 20.3
Beamwidth, Horizontal Tolerance, degrees	±1.4	±0.7	±2.6
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	18	19	20
Front-to-Back Total Power at 180° ± 30°, dB	31	30	30
CPR at Boresight, dB	19	19	17

Mechanical Specifications

Wind Loading @ Velocity, frontal	406.0 N @ 150 km/h (91.3 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 | 149.75 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	22.2 kg | 48.943 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

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.

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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

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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.

General Specifications

Application	Outdoor
Color	Silver

Dimensions

Compatible Diameter, maximum	114.3 mm | 4.5 in
Compatible Diameter, minimum	61 mm | 2.402 in

Material Specifications

Material Type	Galvanized steel

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1
Weight, net	3.9 kg | 8.598 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

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