

HBXX-9014DS-VTM | HBXX-9014DS-A2M



4-port sector antenna, 4x 1710–2180 MHz, 90° HPBW, RET compatible

- Enhanced control of out-of-sector power improves co-channel interference, reduces softer hand-offs, improves capacity

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	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information, General

Model with Factory Installed AISG 2.0 Actuator	HBXX-9014DS-A2M
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Dimensions

Width	305 mm 12.008 in
Length	1297 mm 51.063 in
Depth	166 mm 6.535 in

Electrical Specifications

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

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Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	16	16	16.2
Beamwidth, Horizontal, degrees	88	87.5	87.6
Beamwidth, Vertical, degrees	7.5	7.1	6.7
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	17	17	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	17	17	16
CPR at Sector, dB	8	9	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	-150	-150	-150
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	15.9	15.9	16
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 15.9 5° 16.1 10° 15.7	0° 15.9 5° 16.1 10° 15.7	0° 16.0 5° 16.2 10° 15.7
Beamwidth, Horizontal Tolerance, degrees	±4.7	±3.1	±3.8
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.5
USLS, beampeak to 20° above beampeak, dB	17	18	18
Front-to-Back Total Power at 180° ± 30°, dB	21	21	21
CPR at Boresight, dB	19	20	20
CPR at Sector, dB	8	8	8

Mechanical Specifications

Wind Loading at Velocity, frontal	420.0 N @ 150 km/h 94.4 lbf @ 150 km/h
Wind Loading at Velocity, lateral	113.0 N @ 150 km/h 25.4 lbf @ 150 km/h
Wind Loading at Velocity, rear	109.7 lbf @ 150 km/h 488.0 N @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

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Width, packed	409 mm 16.102 in
Depth, packed	292 mm 11.496 in
Length, packed	1609 mm 63.346 in
Net Weight, without mounting kit	13.5 kg 29.762 lb
Weight, gross	22.1 kg 48.722 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.

* 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
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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

