HBX-9016DS-VTM | HBX-9016DS-A1M



2-port sector antenna, 2x 1710-2180 MHz, 90° HPBW, RET compatible

- Excellent gain, USLS, VSWR, and PIM specification to improve network quality
- Ideal solution to maximize coverage and capacity in suburban and rural areas
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- Wide horizontal and narrow vertical beamwidth to maximize coverage and capacity

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 MaterialFiberglass, UV resistantRadiator MaterialLow 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-9016DS-A1M

Dimensions

 Width
 172 mm | 6.772 in

 Depth
 97 mm | 3.819 in

Length 1897 mm | 74.685 in

Net Weight, without mounting kit 7.6 kg | 16.755 lb

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2180 MHz

Polarization ±45°

COMMSCOPE®

HBX-9016DS-VTM | HBX-9016DS-A1M

Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990	1920-2180
Gain, dBi	17.7	17.7	18
Beamwidth, Horizontal, degrees	85.3	86.4	87
Beamwidth, Vertical, degrees	5.1	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	28	28	27
CPR at Boresight, dB	21	24	20
CPR at Sector, dB	14	13	11
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	-155	-155	-155
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	17.5	17.4	17.6
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.2	±0.4
Gain by Beam Tilt, average, dBi	0° 17.4 3° 17.6 6° 17.4	0° 17.4 3° 17.5 6° 17.3	0° 17.5 3° 17.7 6° 17.4
Beamwidth, Horizontal Tolerance, degrees	±1.4	±1.5	±1.5
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	18	18	19
Front-to-Back Total Power at 180° ± 30°, dB	23.5	22.5	21.3
CPR at Boresight, dB	24	25.5	23.2
CPR at Sector, dB	14	13	11

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 302.0 N @ 150 km/h (67.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 140.0 N @ 150 km/h (31.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 503.0 N @ 150 km/h (113.1 lbf @ 150 km/h)

 Wind Speed, maximum
 241 km/h (150 mph)

Packaging and Weights

COMMSCOPE®

HBX-9016DS-VTM | HBX-9016DS-A1M

 Width, packed
 283 mm | 11.142 in

 Depth, packed
 200 mm | 7.874 in

 Length, packed
 2206 mm | 86.85 in

 Weight, gross
 16.6 kg | 36.597 lb

Regulatory Compliance/Certifications

Agency	Classification
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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



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.

DB5098 – 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





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

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum114.3 mm | 4.5 inCompatible Diameter, minimum61 mm | 2.402 inWeight, net2 kg | 4.409 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

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







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

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 0.8 kg | 1.764 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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant







