HBXX-9016DS-VTM

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

- Each DualPol® array can be independently adjusted for greater flexibility
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Excellent solution for site sharing and maximizing capacity
- Wide horizontal and narrow vertical beamwidth to maximize coverage and capacity

OBSOLETE

This product was discontinued on: March 31, 2022

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	4
RF Connector Quantity, total	4

Dimensions

Width	305 mm | 12.008 in
Depth	166 mm | 6.535 in
Length	1896 mm | 74.646 in
Net Weight, without mounting kit	16.9 kg | 37.258 lb

Electrical Specifications

Electrical Safety Standard	CB | CE
Impedance	50 ohm

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Operating Frequency Band	1710 – 2180 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	**1710–1880**	**1850–1990**	**1920–2180**
Gain, dBi	17.5	17.5	17.5
Beamwidth, Horizontal, degrees	90	88.3	87
Beamwidth, Vertical, degrees	5	4.7	4.5
Beam Tilt, degrees	0–6	0–6	0–6
USLS (First Lobe), dB	18	19	19
Front-to-Back Ratio at 180°, dB	28	28	28
Front-to-Back Total Power at 180° ± 30°, dB	20	21	21
CPR at Boresight, dB	17	18	16
CPR at Sector, dB	7	8	7
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	17	17	17.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4
Gain by Beam Tilt, average, dBi	0 ° | 16.8 3 ° | 17.1 6 ° | 17.1	0 ° | 16.9 3 ° | 17.1 6 ° | 16.9	0 ° | 17.0 3 ° | 17.3 6 ° | 17.1
Beamwidth, Horizontal Tolerance, degrees	±4.2	±3.6	±3
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	18	19	20
CPR at Boresight, dB	17	18	17
CPR at Sector, dB	8	8	8

Mechanical Specifications

Wind Loading @ Velocity, frontal	665.0 N @ 150 km/h (149.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	174.0 N @ 150 km/h (39.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	773.0 N @ 150 km/h (173.8 lbf @ 150 km/h)

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

Packaging and Weights

Width, packed	409 mm | 16.102 in
Depth, packed	292 mm | 11.496 in
Length, packed	2212 mm | 87.087 in
Weight, gross	31.7 kg | 69.886 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

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