

# LDX-9013DS-VTM



2-port sector antenna, 2x 790–960 MHz, 90° HPBW, RET compatible

- Smallest profile, high gain, 90°, DualPol® antenna with significant wind load reduction
- Rugged, reliable design with excellent passive intermodulation suppression

This product will be discontinued on: March 30, 2024

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	2

## Dimensions

<b>Width</b>	225 mm   8.858 in
<b>Depth</b>	164 mm   6.457 in
<b>Length</b>	1831 mm   72.087 in
<b>Net Weight, without mounting kit</b>	12 kg   26.455 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	790 – 960 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

# LDX-9013DS-VTM

Frequency Band, MHz	790–896	870–960
Gain, dBi	14.7	15.1
Beamwidth, Horizontal, degrees	89	89
Beamwidth, Vertical, degrees	11.2	10.5
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	14	13
Front-to-Back Ratio at 180°, dB	25	27
CPR at Boresight, dB	20	19
CPR at Sector, dB	13	13
Isolation, Cross Polarization, dB	30	30
VSWR   Return loss, dB	1.5   14.0	1.4   15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300

## Electrical Specifications, BASTA

Frequency Band, MHz	790–896	870–960
Gain by all Beam Tilts, average, dBi	14.5	14.7
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.4
Gain by Beam Tilt, average, dBi	0°   14.5 5°   14.5 10°   14.3	0°   14.7 5°   14.8 10°   14.5
Beamwidth, Horizontal Tolerance, degrees	±1.6	±1.7
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6
USLS, beampeak to 20° above beampeak, dB	14	15
Front-to-Back Total Power at 180° ± 30°, dB	20	21
CPR at Boresight, dB	21	20
CPR at Sector, dB	13	13

## Mechanical Specifications

Wind Loading @ Velocity, frontal	392.0 N @ 150 km/h (88.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	367.0 N @ 150 km/h (82.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	364 mm   14.331 in
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<b>Depth, packed</b>	299 mm   11.772 in
<b>Length, packed</b>	2151 mm   84.685 in
<b>Weight, gross</b>	24.7 kg   54.454 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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