

# LDCX-9013DS-VTM



4-port sector antenna, 4x 790–960 MHz, 90° HPBW, RET compatible

- Two DualPol® antennas under one radome
- Each DualPol® array can be independently adjusted for greater flexibility
- Engineered to provide wideband capability to support “Digital Dividend” band applications, future ready

## OBSOLETE

This product was discontinued on: March 31, 2023

## 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>	4
<b>RF Connector Quantity, total</b>	4

## Dimensions

<b>Width</b>	549 mm   21.614 in
<b>Depth</b>	165 mm   6.496 in
<b>Length</b>	1830 mm   72.047 in
<b>Net Weight, without mounting kit</b>	30 kg   66.139 lb

## Electrical Specifications

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

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## Electrical Specifications

Frequency Band, MHz	790–862	824–894	870–960
Gain, dBi	14.4	14.8	15.3
Beamwidth, Horizontal, degrees	88.9	86.4	83
Beamwidth, Vertical, degrees	11.3	11.1	10.5
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	14	14	15
Front-to-Back Ratio at 180°, dB	26	27	27
CPR at Boresight, dB	18	18	19
CPR at Sector, dB	10	11	11
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	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300

## Electrical Specifications, BASTA

Frequency Band, MHz	790–862	824–894	870–960
Gain by all Beam Tilts, average, dBi	14	14.3	14.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.6	±0.6
Gain by Beam Tilt, average, dBi	0°   14.1 5°   14.1 10°   13.8	0°   14.4 5°   14.4 10°   14.0	0°   15.1 5°   15.0 10°   14.6
Beamwidth, Horizontal Tolerance, degrees	±4.2	±5.1	±3.7
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.8
USLS, beampeak to 20° above beampeak, dB	16	16	16
Front-to-Back Total Power at 180° ± 30°, dB	23	23	23
CPR at Boresight, dB	21	20	21
CPR at Sector, dB	11	12	11

## Mechanical Specifications

Wind Loading @ Velocity, frontal	1,188.0 N @ 150 km/h (267.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	189.0 N @ 150 km/h (42.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,377.0 N @ 150 km/h (309.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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## Packaging and Weights

<b>Width, packed</b>	711 mm   27.992 in
<b>Depth, packed</b>	333 mm   13.11 in
<b>Length, packed</b>	2249 mm   88.543 in
<b>Weight, gross</b>	49.5 kg   109.129 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

- |          |   |  |
|----------|---|--|
| BSAMNT-3 | - | Wide Profile Antenna 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. |
| BSAMNT-M | - | Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.                            |

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance