LDX-6513DS-VTM | LDX-6513DS-A1M

2-port sector antenna, 2x 790–960 MHz, 65° HPBW, RET compatible

- Engineered to provide wideband capability to support “Digital Dividend” band applications, future ready
- Same physical size as existing 800/900 MHz antennas for easy site zoning
- Proven core design technology, with over 1,000,000 similar antennas deployed

This product will be discontinued on: March 30, 2024

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	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, low band	2
RF Connector Quantity, total	2

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator	LDX-6513DS-A1M

Dimensions

Width	269 mm | 10.591 in
Depth	132 mm | 5.197 in
Length	1297 mm | 51.063 in
Net Weight, without mounting kit	9.3 kg | 20.503 lb

Array Layout

Array	Freq (MHz)	Conns
R1	790-960	1-2

Bottom

(Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	790 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	**790–896**	**870–960**
Gain, dBi	15	15.4
Beamwidth, Horizontal, degrees	66	65
Beamwidth, Vertical, degrees	15.1	14.3
Beam Tilt, degrees	0–15	0–15
USLS (First Lobe), dB	16	15
Front-to-Back Ratio at 180°, dB	32	30
CPR at Boresight, dB	23	23
CPR at Sector, dB	12	10
Isolation, Cross Polarization, dB	30	30
VSWR | Return loss, dB	1.4 | 15.6	1.4 | 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port, maximum, watts	350	350

Electrical Specifications, BASTA

Frequency Band, MHz	**790–896**	**870–960**

Gain by all Beam Tilts, average, dBi	14.7	15
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4
Gain by Beam Tilt, average, dBi	0 ° | 14.8 7 ° | 14.7 15 ° | 14.5	0 ° | 15.2 7 ° | 15.0 15 ° | 14.6
Beamwidth, Horizontal Tolerance, degrees	±1.1	±1.3
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.8
USLS, beampeak to 20° above beampeak, dB	17	18
Front-to-Back Total Power at 180° ± 30°, dB	22.9	22.3
CPR at Boresight, dB	25	25
CPR at Sector, dB	15	14

Mechanical Specifications

Wind Loading @ Velocity, frontal	402.0 N @ 150 km/h (90.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	90.0 N @ 150 km/h (20.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	436.0 N @ 150 km/h (98.0 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	376 mm | 14.803 in
Depth, packed	267 mm | 10.512 in
Length, packed	1610 mm | 63.386 in
Weight, gross	20.3 kg | 44.754 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
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