LDX-6516DS-VTM | LDX-6516DS-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

OBSOLETE
This product was 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-6516DS-A1M

Dimensions

Width	269 mm | 10.591 in
Depth	132 mm | 5.197 in
Length	2577 mm | 101.457 in
Net Weight, without mounting kit	21 kg | 46.297 lb

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Port Configuration
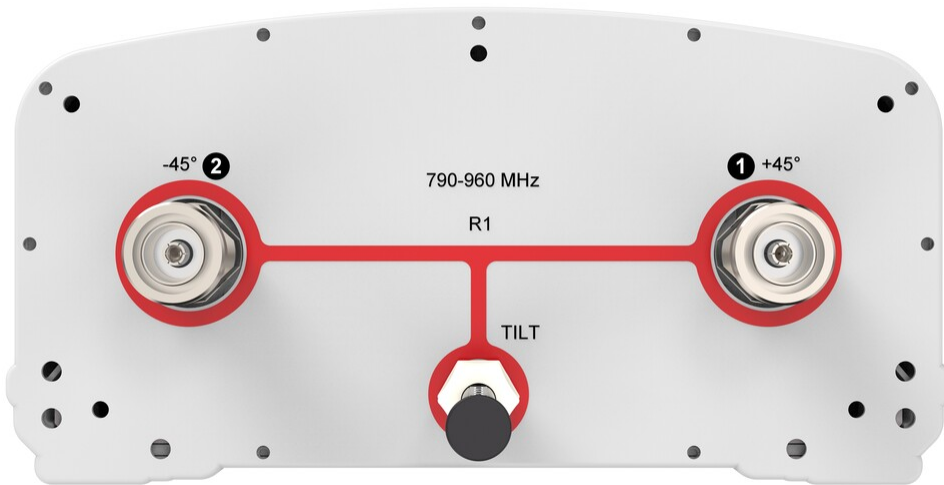
Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	790−896	870−960
Gain, dBi	17.5	17.7
Beamwidth, Horizontal, degrees	64	64
Beamwidth, Vertical, degrees	7.6	7.1
Beam Tilt, degrees	0−8	0−8
USLS (First Lobe), dB	17	17
Front-to-Back Ratio at 180°, dB	30	30
CPR at Boresight, dB	24	22
CPR at Sector, dB	17	16
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

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LDX-6516DS-VTM | LDX-6516DS-A1M

Electrical Specifications, BASTA

Frequency Band, MHz	790–896	870–960
Gain by all Beam Tilts, average, dBi	17.3	17.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3
Gain by Beam Tilt, average, dBi	0 ° | 17.2 4 ° | 17.4 8 ° | 17.3	0 ° | 17.5 4 ° | 17.6 8 ° | 17.6
Beamwidth, Horizontal Tolerance, degrees	±1.3	±1
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	24
CPR at Boresight, dB	24	22
CPR at Sector, dB	17	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	922.0 N @ 150 km/h (207.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	202.0 N @ 150 km/h (45.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,003.0 N @ 150 km/h (225.5 lbf @ 150 km/h)
Wind Speed, maximum	201 km/h (125 mph)

Packaging and Weights

Width, packed	376 mm | 14.803 in
Depth, packed	267 mm | 10.512 in
Length, packed	2717 mm | 106.969 in
Weight, gross	31 kg | 68.343 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

CE

Included Products

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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

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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.

Product Classification

Product Type	Downtilt mounting kit

General Specifications

Application	Outdoor
Color	Silver

Dimensions

Compatible Diameter, maximum	114.3 mm | 4.5 in
Compatible Diameter, minimum	61 mm | 2.402 in
Weight, net	3.9 kg | 8.598 lb

Material Specifications

Material Type	Galvanized steel

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1
Weight, gross	4.2 kg | 9.259 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

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