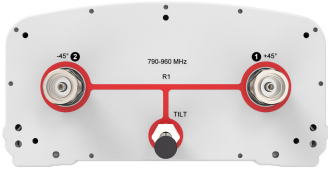


LDX-6516DS-VTM | LDX-6516DS-A1M



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

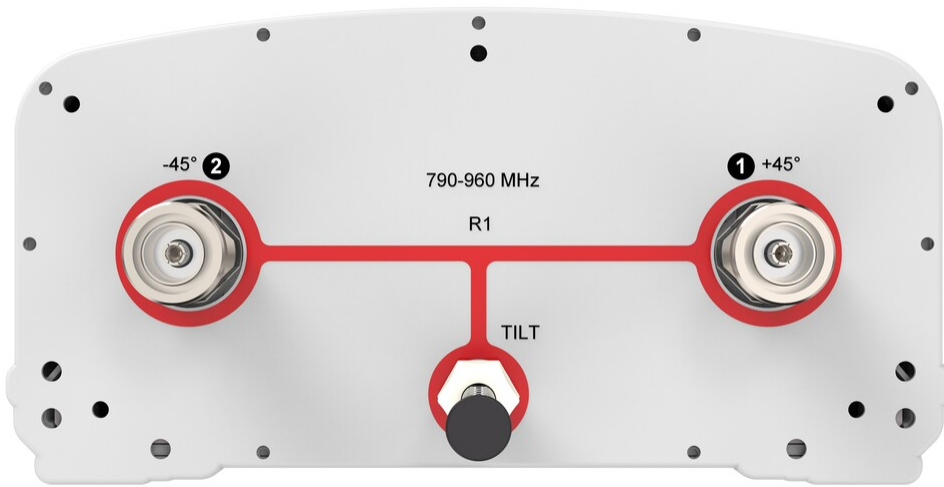
| | |
|---|----------------|
| Model with Factory Installed AISG 2.0 Actuator | LDX-6516DS-A1M |
|---|----------------|

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 |

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

Port Configuration



Electrical Specifications

| | |
|---------------------------------|----------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 790 – 960 MHz |
| Polarization | $\pm 45^\circ$ |

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 |

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 |



Included Products

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

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