LDX-6516DS1-VTM | LDX-6516DS1-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 31, 2021

Replaced By:

LDX-6516DS-VTM LDX-6516DS-A1M	2-port sector antenna, 2x 790–960 MHz, 65° HPBW, RET compatible

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 | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, 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-6516DS1-A1M

Dimensions

Width	301 mm | 11.85 in

Depth	181 mm | 7.126 in
Length	2582 mm | 101.654 in
Net Weight, without mounting kit	20.2 kg | 44.533 lb

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	790 – 960 MHz
Polarization	±45°
Total Input Power, maximum	500 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**790–896**	**870–960**
Gain, dBi	17.3	17.6
Beamwidth, Horizontal, degrees	66	64
Beamwidth, Vertical, degrees	7.6	7.1
Beam Tilt, degrees	0–8	0–8
USLS (First Lobe), dB	19	21
Front-to-Back Ratio at 180°, dB	35	33
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 at 50°C, maximum, watts	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	**790–896**	**870–960**
Gain by all Beam Tilts, average, dBi	17.1	17.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4
Gain by Beam Tilt, average, dBi	0 ° | 16.9 4 ° | 17.1 8 ° | 17.1	0 ° | 17.2 4 ° | 17.4 8 ° | 17.4
Beamwidth, Horizontal Tolerance, degrees	±1.5	±1.5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	15	15
Front-to-Back Total Power at 180° ± 30°, dB	26	23
CPR at Boresight, dB	21	20

CPR at Sector, dB	17	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	421.0 N @ 150 km/h (94.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	810.0 N @ 150 km/h (182.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	427.0 N @ 150 km/h (96.0 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	392 mm | 15.433 in
Depth, packed	295 mm | 11.614 in
Length, packed	2718 mm | 107.008 in
Weight, gross	37.8 kg | 83.335 lb

Regulatory Compliance/Certifications

Agency	**Classification**
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance