

LNx-6514DS-A1M



2-port sector antenna, 2x 698–896 MHz, 65° HPBW, 1x RET

- Great solution to maximize network coverage and capacity
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- Excellent solution for site sharing and maximizing capacity
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

OBSOLETE

This product was discontinued on: November 30, 2023

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

Dimensions

Width	301 mm 11.85 in
Depth	180.5 mm 7.106 in
Length	2048 mm 80.63 in
Net Weight, without mounting kit	14.6 kg 32.187 lb

Electrical Specifications

Impedance	50 ohm
------------------	--------

LNX-6514DS-A1M

Operating Frequency Band	698 – 896 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	15.8	15.9
Beamwidth, Horizontal, degrees	65	63.9
Beamwidth, Vertical, degrees	12.4	11.2
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	18	19
Front-to-Back Ratio at 180°, dB	33	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, maximum, watts	400	400

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896
Gain by all Beam Tilts, average, dBi	15.6	15.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5
Gain by Beam Tilt, average, dBi	0° 15.7 5° 15.7 10° 15.3	0° 15.9 5° 15.8 10° 15.3
Beamwidth, Horizontal Tolerance, degrees	±1	±1.4
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6
USLS, beampeak to 20° above beampeak, dB	18	20
Front-to-Back Total Power at 180° ± 30°, dB	25	23
CPR at Boresight, dB	25	25
CPR at Sector, dB	15	12

Mechanical Specifications

Wind Loading @ Velocity, frontal	283.0 N @ 150 km/h (63.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	545.0 N @ 150 km/h (122.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

LNx-6514DS-A1M

Packaging and Weights

Width, packed	411 mm 16.181 in
Depth, packed	284 mm 11.181 in
Length, packed	2163 mm 85.158 in
Weight, gross	32.9 kg 72.532 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance