

# LNx-6515DS-VTM



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

- Excellent choice to maximize both coverage and capacity in suburban and rural applications
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- Exceptional horizontal pattern roll-off and strong front-to-back ratio
- Extended bandwidth allows one antenna to serve multiple frequency allocations
- Great solution to maximize network coverage and capacity
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

**OBSOLETE**

This product was discontinued on: March 31, 2021

Replaced By:

LNx-6515DS-A1M      2-port sector antenna, 2x 698–896 MHz, 65° HPBW, 1x RET

## 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, high band	0
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	2
RF Connector Quantity, total	2

## Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator	LNx-6515DS-A1M
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## Dimensions

Width	301 mm   11.85 in
Depth	180.5 mm   7.106 in
Length	2453 mm   96.575 in
Net Weight, without mounting kit	19.8 kg   43.651 lb

## Array Layout



Array	Freq (MHz)	Conns
R1	698-896	1-2

Bottom

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

## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	698 – 896 MHz
Polarization	±45°

## Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	16.7	17.6
Beamwidth, Horizontal, degrees	65	63.8
Beamwidth, Vertical, degrees	9.7	8.6
Beam Tilt, degrees	0–8	0–8
USLS (First Lobe), dB	17	17
Front-to-Back Ratio at 180°, dB	32	27
CPR at Boresight, dB	24	27

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CPR at Sector, dB	15	13
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

## Mechanical Specifications

Wind Loading @ Velocity, frontal	396.0 N @ 150 km/h (89.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	333.0 N @ 150 km/h (74.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	762.0 N @ 150 km/h (171.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	401.0 N @ 150 km/h (90.1 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	36.9 kg   81.35 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
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.
BSAMNT-M	– Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

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\* Footnotes

**Performance Note**      Severe environmental conditions may degrade optimum performance