

LNX-6515DS-VTM | LNX-6515DS-A1M



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, low band | 2 |
| RF Connector Quantity, total | 2 |

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator LNX-6515DS-A1M

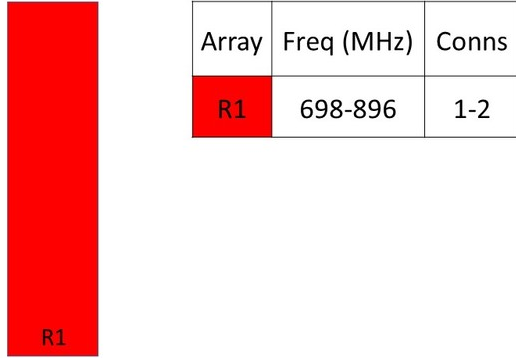
Dimensions

Width 301 mm | 11.85 in

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| | |
|---|---------------------|
| 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



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 |
| CPR at Sector, dB | 15 | 13 |
| Isolation, Cross Polarization, dB | 30 | 30 |

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| | | |
|---|------------|------------|
| 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 | 16.6 | 16.9 |
| Gain by all Beam Tilts Tolerance, dB | ±0.4 | ±0.3 |
| Gain by Beam Tilt, average, dBi | 0° 16.6 4° 16.6 8° 16.4 | 0° 17.0 4° 17.0 8° 16.8 |
| Beamwidth, Horizontal Tolerance, degrees | ±1 | ±0.9 |
| Beamwidth, Vertical Tolerance, degrees | ±0.6 | ±0.4 |
| USLS, beampeak to 20° above beampeak, dB | 18 | 18 |
| Front-to-Back Total Power at 180° ± 30°, dB | 25 | 23 |
| CPR at Boresight, dB | 24 | 27 |
| CPR at Sector, dB | 15 | 13 |

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 |

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REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance