

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) |

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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

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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 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 www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

BSAMNT-3

