

LNX-4514DS-A1M



2-port sector antenna, 2x 698–896 MHz, 45° HPBW, factory attached actuator

- Broadband, providing future-ready single antenna for application in 700 MHz and existing 850 MHz cellular operation
- Air dielectric design provides superior PIM performance with repeatable antenna-to-antenna gain and pattern consistency
- Single piece radome provides long term mechanical stability
- Proven core design technology, with over 1,000,000 similar antennas deployed
- Specifically designed to have physical dimensions similar to most existing cellular antennas

Electrical Specifications

| Frequency Band, MHz | 698–806 | 806–896 |
|--------------------------------------|------------|------------|
| Gain, dBi | 15.5 | 16.4 |
| Beamwidth, Horizontal, degrees | 47 | 45 |
| Beamwidth, Vertical, degrees | 17.3 | 15.8 |
| Beam Tilt, degrees | 2–18 | 2–18 |
| USLS, typical, dB | 16 | 15 |
| Front-to-Back Ratio at 180°, dB | 32 | 28 |
| Isolation, 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 | 500 | 500 |
| Polarization | ±45° | ±45° |
| Impedance | 50 ohm | 50 ohm |

General Specifications

| | |
|---------------------------------|---------------|
| Operating Frequency Band | 698 – 896 MHz |
| Antenna Type | Sector |
| Band | Single band |
| Performance Note | Outdoor usage |

Mechanical Specifications

| | |
|--|--|
| RF Connector Quantity, total | 2 |
| RF Connector Quantity, low band | 2 |
| RF Connector Interface | 7-16 DIN Female |
| Color | Light gray |
| Grounding Type | RF connector inner conductor and body grounded to reflector and mounting bracket |
| Radiator Material | Aluminum |
| Radome Material | Fiberglass, UV resistant |
| RF Connector Location | Bottom |
| Wind Loading, frontal | 586.0 N @ 150 km/h |

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| | |
|------------------------------|---|
| | 131.7 lbf @ 150 km/h |
| Wind Loading, lateral | 154.0 N @ 150 km/h 34.6 lbf @ 150 km/h |
| Wind Speed, maximum | 241 km/h 150 mph |

Dimensions

| | |
|---|---------------------|
| Length | 1308.0 mm 51.5 in |
| Width | 389.0 mm 15.3 in |
| Depth | 163.0 mm 6.4 in |
| Net Weight, without mounting kit | 13.3 kg 29.3 lb |

Packed Dimensions

| | |
|------------------------|---------------------|
| Length | 1780.0 mm 70.1 in |
| Width | 545.0 mm 21.5 in |
| Depth | 300.0 mm 11.8 in |
| Shipping Weight | 24.8 kg 54.6 lb |

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2015

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)
Designed, manufactured and/or distributed under this quality management system



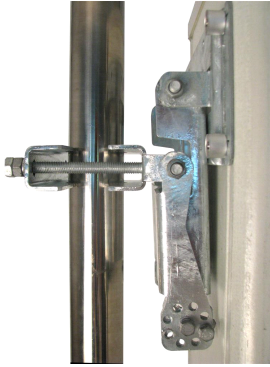
Included Products

BSAMNT-1 — 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-1



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.

General Specifications

| | |
|-------------------------|---------------------|
| Application | Outdoor |
| Includes | Brackets Hardware |
| Package Quantity | 1 |

Mechanical Specifications

| | |
|----------------------|------------------|
| Color | Silver |
| Material Type | Galvanized steel |

Dimensions

| | |
|-------------------------------------|-------------------|
| Compatible Diameter, maximum | 115.0 mm 4.5 in |
| Compatible Diameter, minimum | 60.0 mm 2.4 in |
| Net Weight | 6.0 kg 13.3 lb |

Regulatory Compliance/Certifications

| | |
|----------------------------|--|
| Agency | Classification |
| RoHS 2011/65/EU | Compliant by Exemption |
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