

# 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

## **OBSOLETE**

This product was discontinued on: **March 26, 2019**

### Replaced By

NHH-45A-R2B

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 45° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

## 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, 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	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

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<b>RF Connector Interface</b>	7-16 DIN Female
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Aluminum
<b>Radome Material</b>	Fiberglass, UV resistant
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	131.7 lbf @ 150 km/h   586.0 N @ 150 km/h
<b>Wind Loading, lateral</b>	154.0 N @ 150 km/h   34.6 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	241 km/h   150 mph

## Dimensions

<b>Length</b>	1308.0 mm   51.5 in
<b>Width</b>	389.0 mm   15.3 in
<b>Depth</b>	163.0 mm   6.4 in
<b>Net Weight, without mounting kit</b>	13.3 kg   29.3 lb

## Packed Dimensions

<b>Length</b>	1780.0 mm   70.1 in
<b>Width</b>	545.0 mm   21.5 in
<b>Depth</b>	300.0 mm   11.8 in
<b>Shipping Weight</b>	24.8 kg   54.6 lb

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015  
China RoHS SJ/T 11364-2014

### Classification

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



## 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