

# LNx-8514DS-A1M



2-port sector antenna, 698–896 MHz, 85° HPBW, ATM200

- Great solution to maximize network coverage and capacity
- Excellent front-to-back ratio, USLS, VSWR, and PIM specifications to enhance network quality
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- Vertical beam optimized for capacity efficiency
- 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

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	2

## Dimensions

<b>Width</b>	301 mm   11.85 in
<b>Depth</b>	181 mm   7.126 in
<b>Length</b>	2449 mm   96.417 in
<b>Net Weight, without mounting kit</b>	23.1 kg   50.927 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
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<b>Operating Frequency Band</b>	698 – 896 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>
<b>Gain, dBi</b>	16.1	16.8
<b>Beamwidth, Horizontal, degrees</b>	85	84
<b>Beamwidth, Vertical, degrees</b>	8.6	7.8
<b>Beam Tilt, degrees</b>	0–8	0–8
<b>USLS (First Lobe), dB</b>	17	17
<b>Front-to-Back Ratio at 180°, dB</b>	27	27
<b>CPR at Boresight, dB</b>	18	18
<b>CPR at Sector, dB</b>	12	11
<b>Isolation, Cross Polarization, dB</b>	30	30
<b>VSWR   Return loss, dB</b>	1.4   15.6	1.4   15.6
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153
<b>Input Power per Port, maximum, watts</b>	400	400

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15.7	16.2
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.3	±0.2
<b>Gain by Beam Tilt, average, dBi</b>	0°   15.7 4°   15.7 8°   15.5	0°   16.3 4°   16.3 8°   16.1
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.2	±1.3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.5	±0.4
<b>USLS, beampeak to 20° above beampeak, dB</b>	20	22
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	22	23
<b>CPR at Boresight, dB</b>	18	18
<b>CPR at Sector, dB</b>	12	11

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	879.0 N @ 150 km/h (197.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	273.0 N @ 150 km/h (61.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,033.0 N @ 150 km/h (232.2 lbf @ 150 km/h)

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**Wind Speed, maximum** 241 km/h (150 mph)

## Packaging and Weights

**Width, packed** 437 mm | 17.205 in  
**Depth, packed** 347 mm | 13.661 in  
**Length, packed** 2907 mm | 114.449 in  
**Weight, gross** 42.4 kg | 93.476 lb

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## Included Products

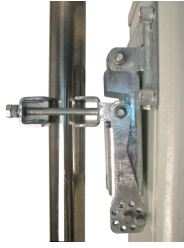
- BSAMNT-1 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
- BSAMNT-M – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

## \* Footnotes

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

# BSAMNT-1

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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** 114.3 mm | 4.5 in

**Compatible Diameter, minimum** 61 mm | 2.402 in

**Weight, net** 6 kg | 13.228 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 6.2 kg | 13.669 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

# BSAMNT-1

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# 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.

## 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** 4.5 kg | 9.921 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

## Regulatory Compliance/Certifications

Agency	Classification
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.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

