2-port sector antenna, 2x 698–896 MHz, 65° HPBW, 1x RET

- 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

General Specifications

Antenna Type
- Sector

Band
- Single band

Color
- Light gray

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

Length
- 2650 mm  |  104.331 in

Depth
- 180.5 mm  |  7.106 in

Electrical Specifications

Impedance
- 50 ohm

Operating Frequency Band
- 698 – 896 MHz

Polarization
- ±45°
LNX-6515DS-A1M

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
Isolation, Cross Polarization, dB | 30 | 30
VSWR | Return loss, dB | 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 at Velocity, frontal
396.0 N @ 150 km/h | 89.0 lbf @ 150 km/h
Wind Loading at Velocity, lateral
333.0 N @ 150 km/h | 74.9 lbf @ 150 km/h
Wind Loading at Velocity, maximum
171.3 lbf @ 150 km/h | 762.0 N @ 150 km/h
Wind Loading at Velocity, rear
401.0 N @ 150 km/h | 90.1 lbf @ 150 km/h
Wind Speed, maximum
241 km/h | 149.75 mph

Packaging and Weights

Width, packed 411 mm | 16.181 in
Depth, packed 284 mm | 11.181 in
LNX-6515DS-A1M

Length, packed 2765 mm | 108.858 in
Net Weight, without mounting kit 20.2 kg | 44.533 lb
Weight, gross 40.5 kg | 89.287 lb

Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>ROHS</td>
<td>Compliant</td>
</tr>
</tbody>
</table>

Included Products

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