

DATASHEET

2.4 GHz Base Station Antenna A2404NJ-OC / A2406NJ-OC / A2408NJ-OC

The Radiolinx wireless broadband Omnidirectional Base Station Antennas are designed to provide maximum performance and reliability under the toughest weather conditions. These antennas feature a U.V. stable, vented radome that provides the ultimate protection against weather elements. The antennas can be mast, wall, or ceiling mounted.

These antennas are typically composed of several linear antennas stacked on top of each other. The number of stacked elements increases the gain of this antenna which is typically between 5 to 8 dBi depending on the number of elements. This array of antennas provides an omni-directional pattern. Polarity is linear, parallel to the length of the antenna.



- UV stable, pultruded fiberglass radome. Allows outdoor installation even in harsh climates.
- Vented system design provides reliable performance by protecting the electrical design against extreme moisture and/or temperatures.
- Thread relief on connector. Improved accessibility for taping reduces installation time and improves overall effectiveness.
- Internal O-ring seal in the base of the antenna with integrated connector at the base. Ensures a watertight seal to prevent water from migrating into the antenna connector.
- Electrical downtilt options on select models provide system planners flexibility in challenging operating environments.

General Specifications

| | |
|------------------------|---|
| Radome Material | UV resistant pultruded fiberglass |
| Polarization | Vertical |
| Nominal Impedance | 50 Ohms |
| Mounting Base Diameter | 1.25 inches |
| Mounting Method | RLX-MMK-1924: L-bracket mount for wall or pipe mount RLX-MMK8: Aluminum extruded bracket for mast mounting |
| Termination | Type N jack standard with all models |

Electrical Specifications

| Model # | Frequency | Gain | Bandwidth @ 1.5:1 WVSR |
|------------|-----------------|-------|------------------------|
| A2404NJ-OC | 2400-2483.5 MHz | 4 dBi | 100 MHz |
| A2406NJ-OC | 2400-2483.5 MHz | 6 dBi | 100 MHz |
| A2408NJ-OC | 2400-2483.5 MHz | 8 dBi | 100 MHz |

| Model # | Vertical Beamwidth @ ½ Power | VSWR | Max Power | Downtilt |
|------------|------------------------------|---------|-----------|----------|
| A2404NJ-OC | 30° | < 1.5:1 | 25 Watts | N/A |
| A2406NJ-OC | 20° | < 1.5:1 | 25 Watts | N/A |
| A2408NJ-OC | 13° | < 1.5:1 | 25 Watts | N/A |

Mechanical Specifications

| Model # | Wind Survival | Equivalent Flat Plate Area | Lateral Thrust @ Rated Wind |
|------------|---------------|----------------------------|-----------------------------|
| A2404NJ-OC | 125 mph | .02 ft ² | 2.1 lbs |
| A2406NJ-OC | 125 mph | .04 ft ² | 3.0 lbs |
| A2408NJ-OC | 125 mph | .06 ft ² | 5.2 lbs |

| Model # | Bending Movement @ Rated Wind | Height | Weight |
|------------|-------------------------------|------------------|---------------------|
| A2404NJ-OC | 0.7 ft-lbs | 8.1" (205.74 mm) | 0.34 lbs (0.172 kg) |
| A2406NJ-OC | 1.4 ft-lbs | 11.6" (294.6 mm) | 0.38 lbs (0.172 kg) |
| A2408NJ-OC | 4.4 ft-lbs | 20.2" (513.1 mm) | 0.50 lbs (0.226 kg) |



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A2404NJ-OC / A2406NJ-OC / A2408NJ-OC

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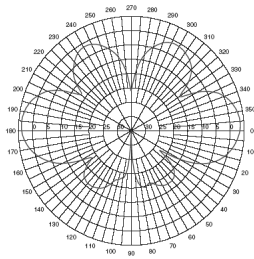
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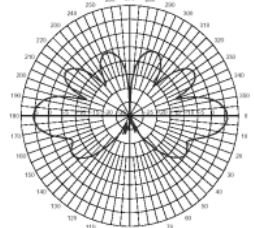
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Patterns

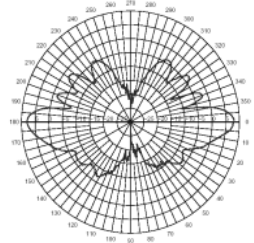
A2404NJ-OC Elevation



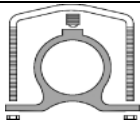

A2406NJ-OC Elevation



A2408NJ-OC Elevation



Mounting Hardware

| Part # | Description | Included with | Works with | Illustration |
|-------------|--|--|--|---|
| RLX-MMK8 | Mounting bracket for mounting a 1 ¼ inch diameter antenna to a 2 inch diameter mast | A2404NJ-OC A2406NJ-OC A2408NJ-OC | A2404NJ-OC A2406NJ-OC A2408NJ-OC |  |
| RLX-MMK1924 | L bracket for mounting omnidirectional antennas to a 2 inch maximum diameter mast. Bracket is 6 inches long with a 5/8 diameter hole | N/A | A2404NJ-OC A2406NJ-OC A2408NJ-OC |  |



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