

ANT-122-S02

Low Profile MIMO 4G/LTE Omni Screw-Mount Antenna



Applications

- Kiosks
- Vending Machines
- Digital Signage
- Video Surveillance
- Point-of-Sale Terminals
- SCADA / Telemetry / PLCs

Product Features

- 2 MIMO Elements in Single Radome
- Ultra Low Profile ~ 0.6 inches Tall
- Vandal Resistant & Weatherproof
- Compatible with all 3G & 4G/LTE Networks
- Compatible with most Cellular Modems/Routers
- 2.5 dBi Peak Gain
- Omni-Directional
- SMA Male Connectors on 6.6 ft Low-Loss Coax



Ordering Information

| Part No. | Description |
|-------------|--|
| ANT-122-S02 | Proxicast Ultra Low Profile MIMO 4G / LTE Omni-Directional Screw-Mount Antenna |

General Description

This extremely low profile (< 0.6 inches tall) fixed mount omni-directional antenna provides up to 2.5 dBi of gain and works on all 3G & 4G cellular frequency bands worldwide (all CDMA, GSM, WCDMA/UMTS and LTE carriers) including AT&T, Verizon, Sprint, T-Mobile, Bell, Rogers and Telus.

Permanently mounts via a 1/2 in. (12 mm) hole with locking internal nut. Resists vandalism with no exposed coax cable. Includes 6.6 ft of low-loss coax fed through center mounting post.

Completely waterproof (IP67) when properly installed with post extending into a water-tight enclosure.

Designed for M2M applications such as vending machines, meter housings, equipment sheds, or other locations requiring an inconspicuous low-profile external antenna. Can also be vehicle mounted for buses, vans, trucks or other mobile installations.

Dual integrated SMA male plug connectors mate with SMA female jacks on MIMO capable modems, routers, etc.

For optimum performance this antenna should be mounted through a flat, horizontal metal surface at least 8 inches in diameter.

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Electrical Specifications

| Parameter | Rating |
|--------------------------|---|
| Frequency Range | 698-960 / 1710-2700 MHz includes all 2G, 3G, 4G, LTE Bands |
| Peak Gain | 2.5 dBi |
| VSWR | ≤ 3 |
| Input Impedance | 50 Ohm |
| Polarization | Vertical |
| Max Input Power | 50 W |
| DC Grounded | No |
| Recommended Ground Plane | 8 inch (20 cm) diameter min |

Mechanical Specifications

| Parameter | Rating |
|-----------------------|--|
| Connector Type | SMA Male (plug) x 2 |
| Cable Length | 6.6 ft (2 m) of LMR RG174 low-loss coax |
| Height | Radome: 0.6 inches (15 mm) above mounting surface Overall: 1.2 inches (30 mm) |
| Diameter | Radome: 3.2 inches (81.3 mm) Mounting post: 0.47 inches (12 mm) |
| Weight | 4.3 oz (122 g) |
| Materials | Radome: UV stabilized ABS plastic Connector: Brass with Nickel plating Adhesive Pad: Urethane Foam |
| Antenna Color | Black |
| Vibration | 10 to 55Hz with 1.5mm amplitude 2hours |
| Operating Temperature | -40°C to +85°C |
| Environmental Rating | IP67 (waterproof) RoHS compliant |

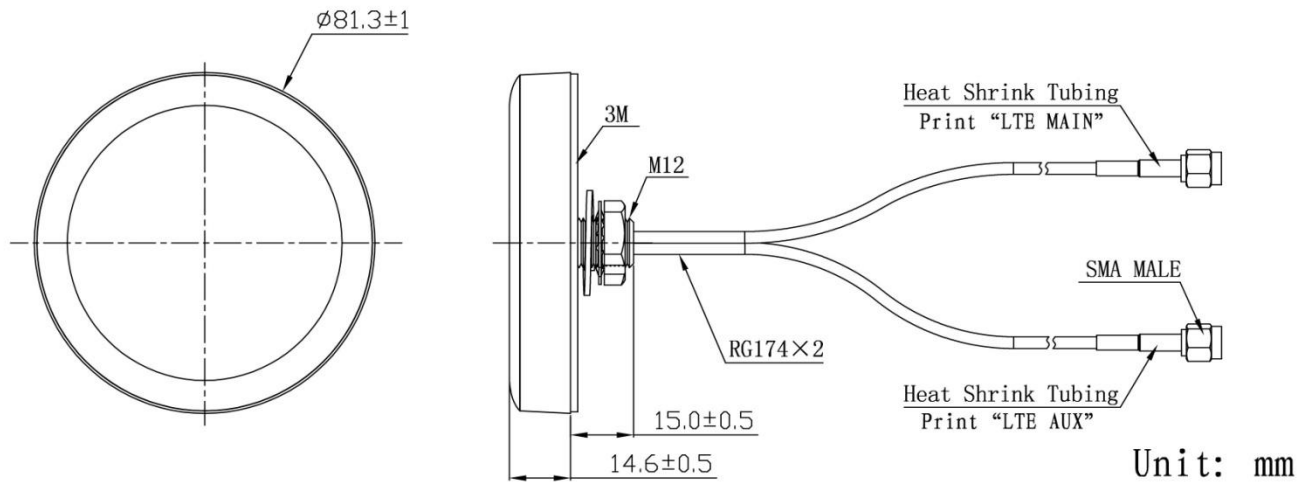
Operation of this device outside the parameter ranges given above may cause permanent damage.

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Mechanical Dimensions



Product Images



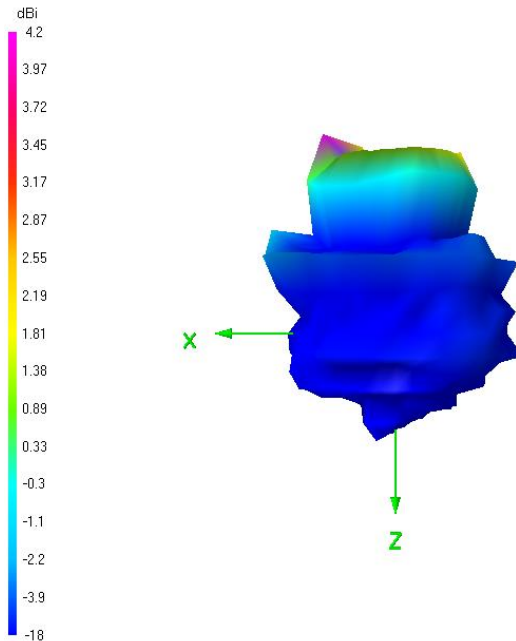
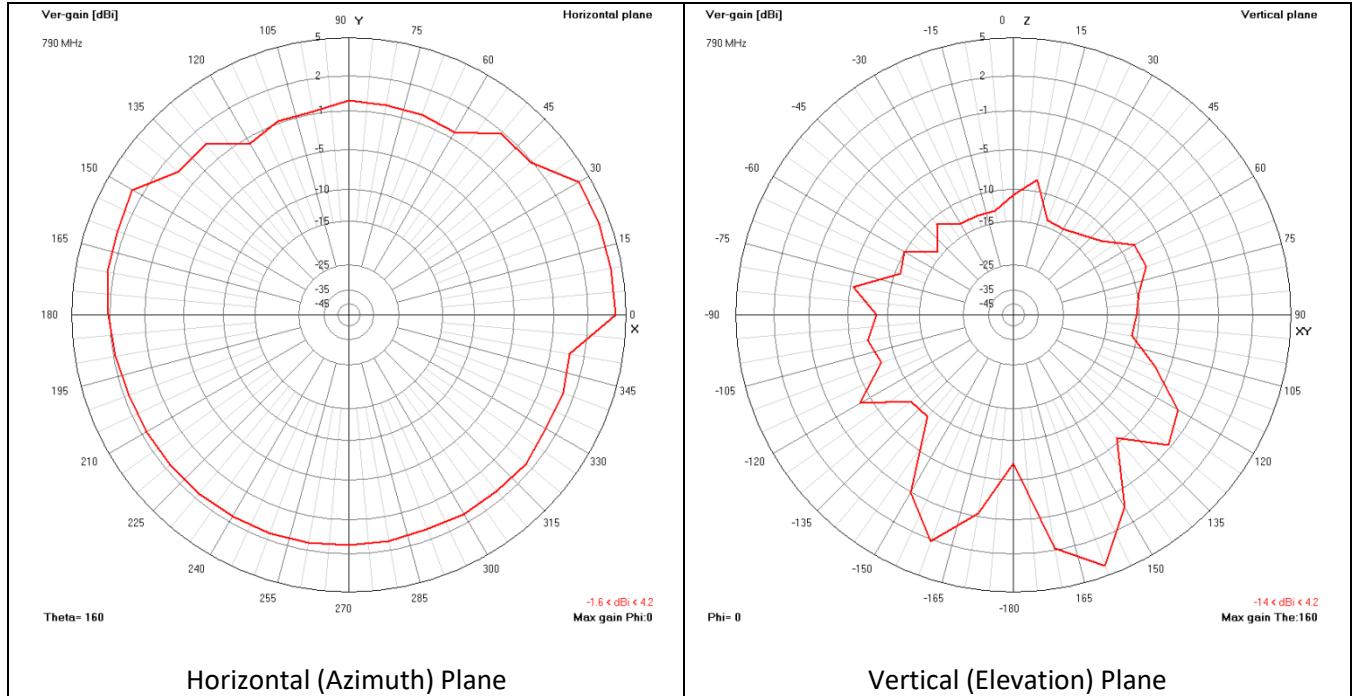
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Radiation Patterns

790 MHz



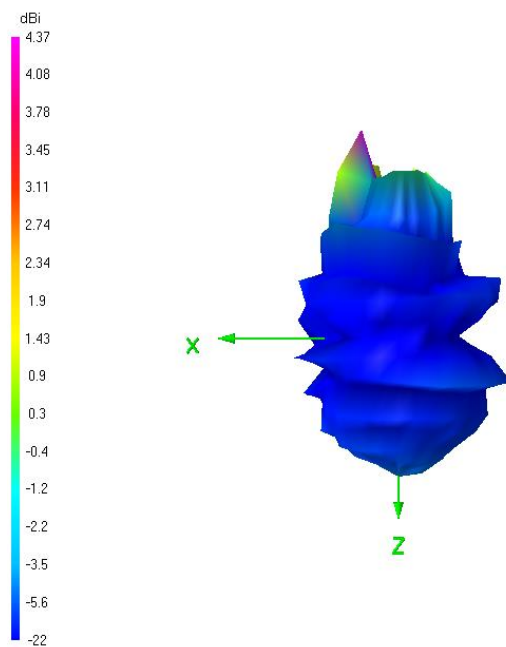
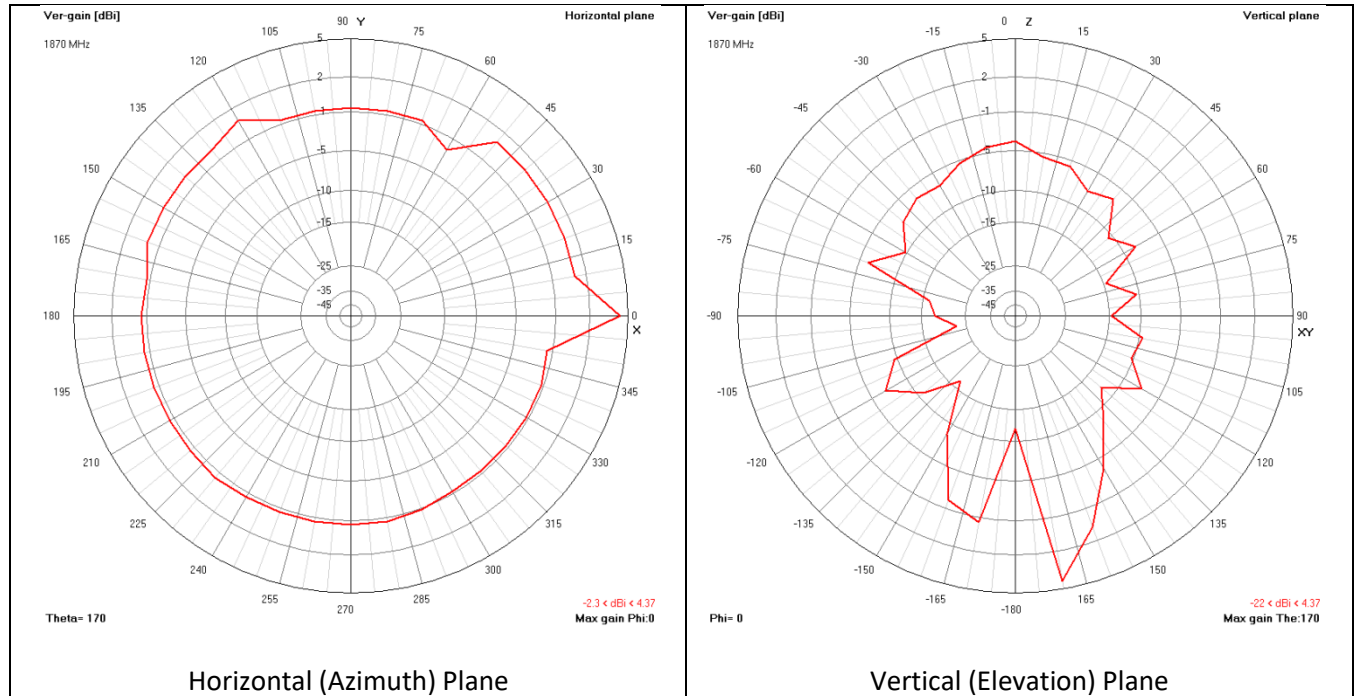
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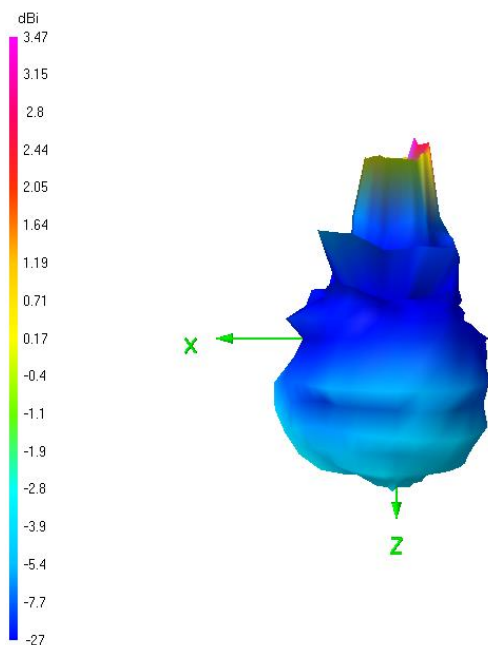
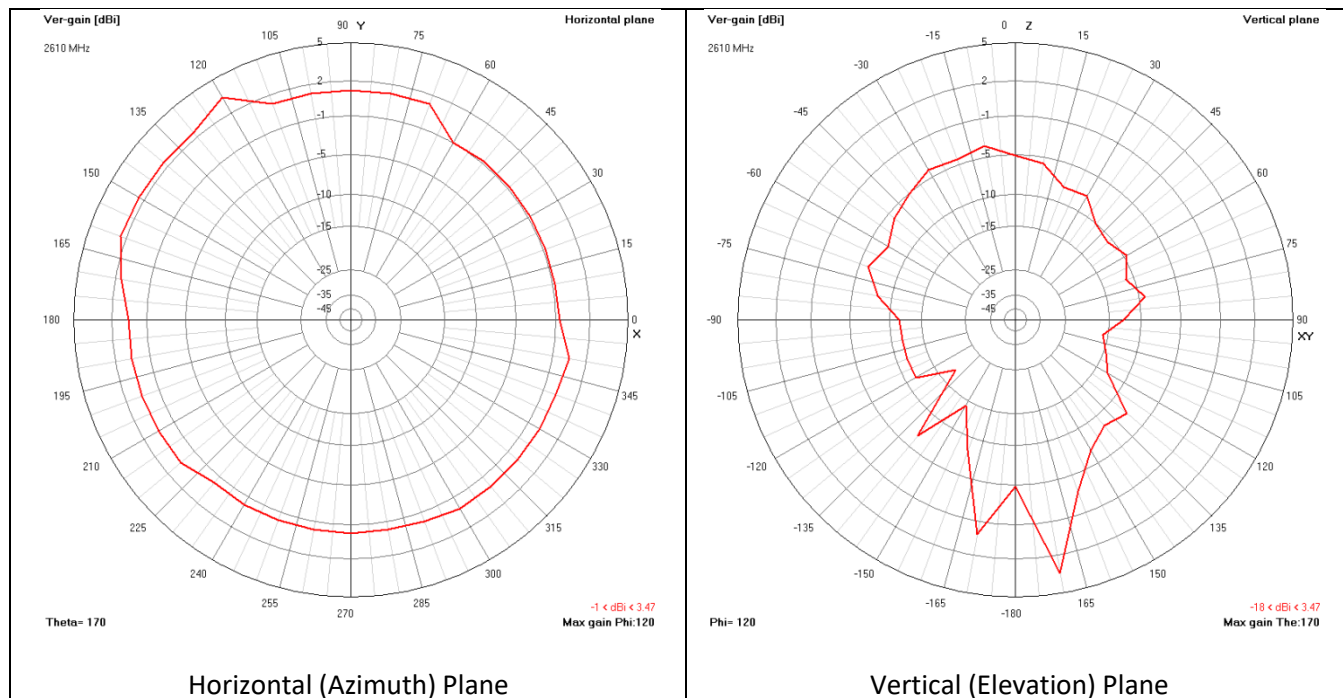
Radiation Patterns

1870 MHz



Radiation Patterns

2610 MHz



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Installation Instructions

- Position away from:
 - CRT/TVs
 - Lighting fixtures & motors
 - Other antennas & wireless devices
 - Low-E or tinted/coated windows
 - Large vertical metal or concrete objects
- Drill a 1/2" (12mm) hole in flat horizontal surface
- Remove mounting nut & washer and feed coax cable through hole
- Remove bottom plastic liner to expose adhesive
- Press antenna into hole and tighten nut & washer from underneath
- Optionally apply a thin bead of silicone caulk around the antenna rim
- Keep total coax lead cable as short as possible & weatherproof all outdoor connectors

Contact Information

For the latest specifications, additional product information, worldwide sales and information about Proxicast:

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