

ANT-122-S02

Low Profile MIMO 4G/5G 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 4G * 5G Networks
- Compatible with most Cellular Modems/Routers
- 2.5 dBi Peak Gain
- Omni-Directional
- SMA Male Connectors on 6.5 ft Low-Loss Coax

Ordering Information

Part No.	Description
ANT-122-S02	Proxicast Ultra Low Profile MIMO 4G / 5G 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 4G/LTE and sub-6 GHz 5G frequencies on Verizon, AT&T, T-Mobile, US Cellular, Bell Mobility, Rogers, Telus, Sasktel, Telcel, Movistar, Digicel and many other cellular operators worldwide.

Permanently mounts via a 1/2 in. (12 mm) hole with locking internal nut. Resists vandalism with no exposed coax cable. Includes 6.5 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	600-6000 MHz includes all 4G, LTE and Sub-6 FR1 5G Bands used worldwide
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	6.5 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

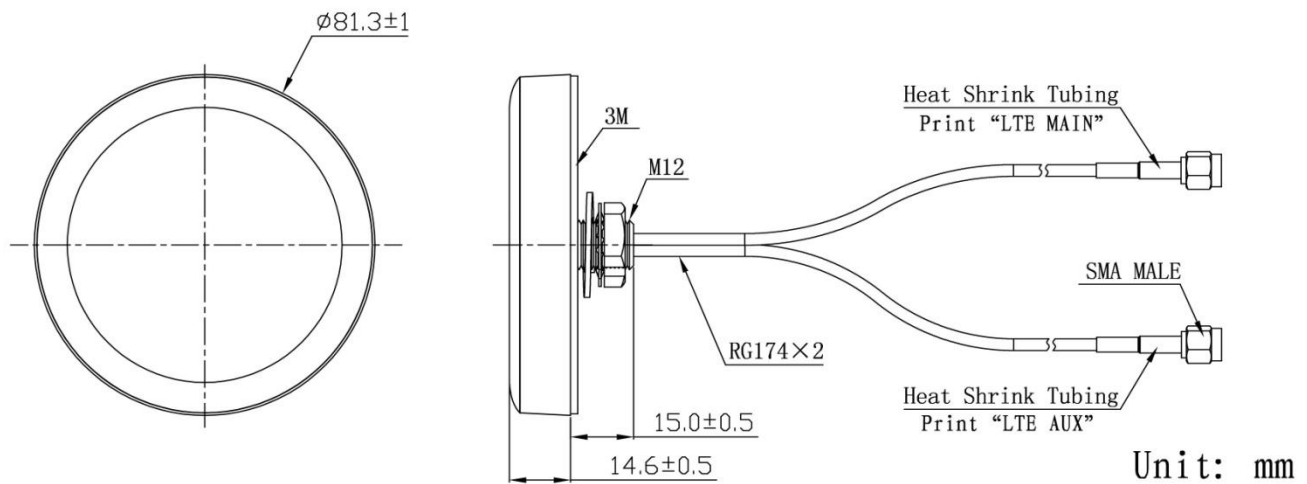
Operation of this device outside the parameter ranges given above may cause permanent damage.

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Mechanical Dimensions



Product Images



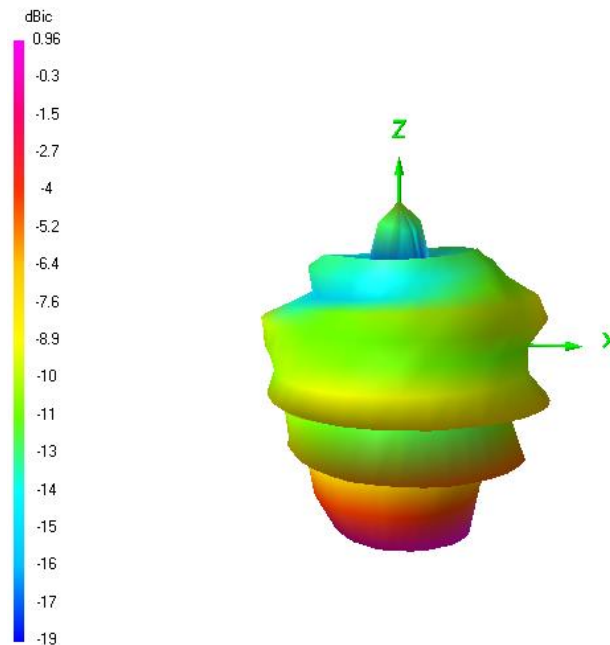
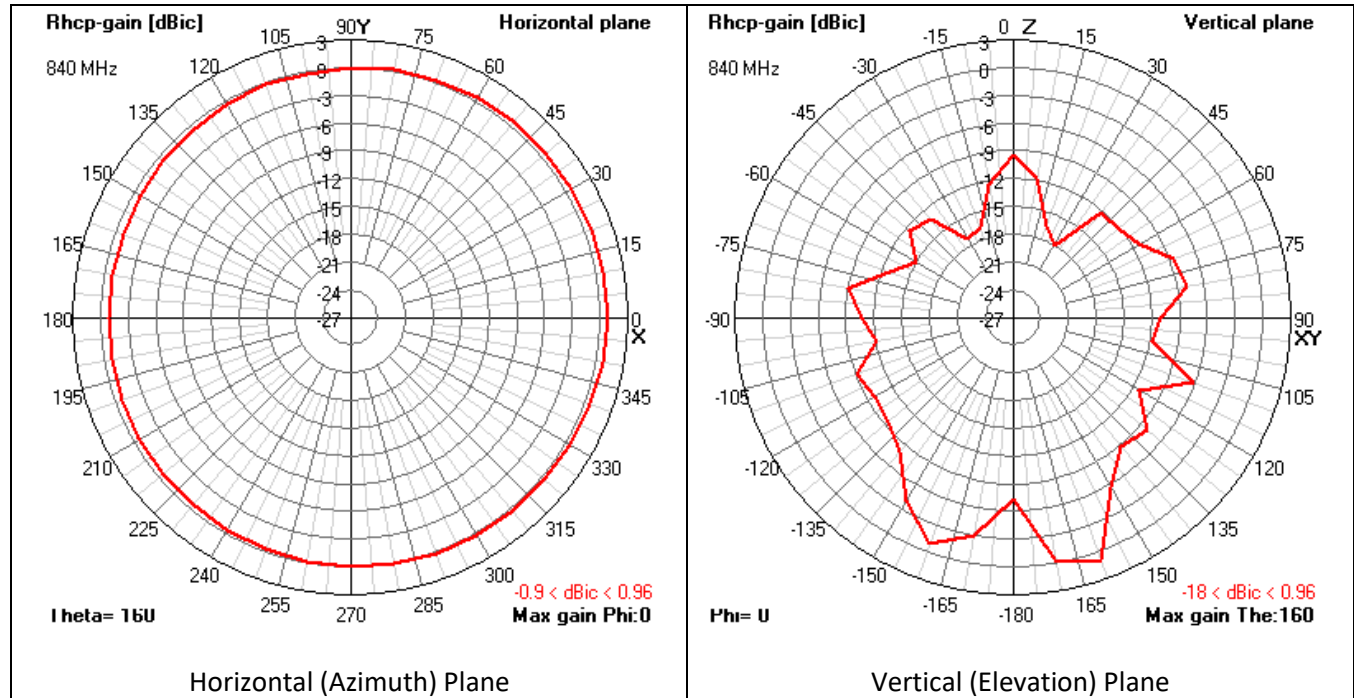
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Radiation Patterns

840 MHz



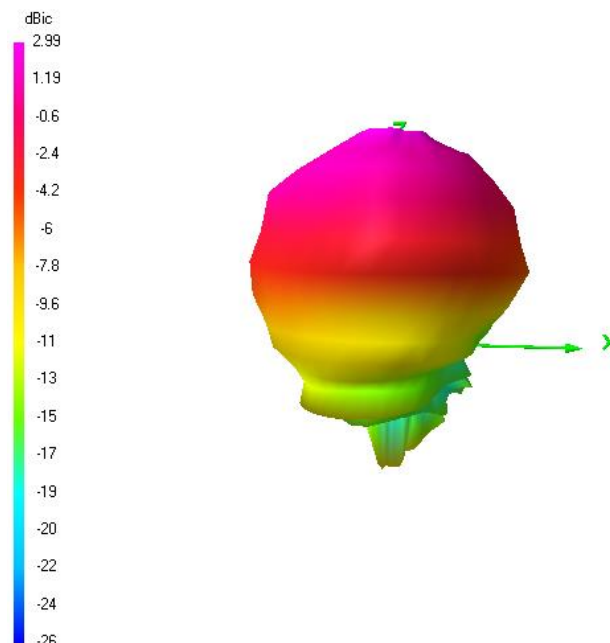
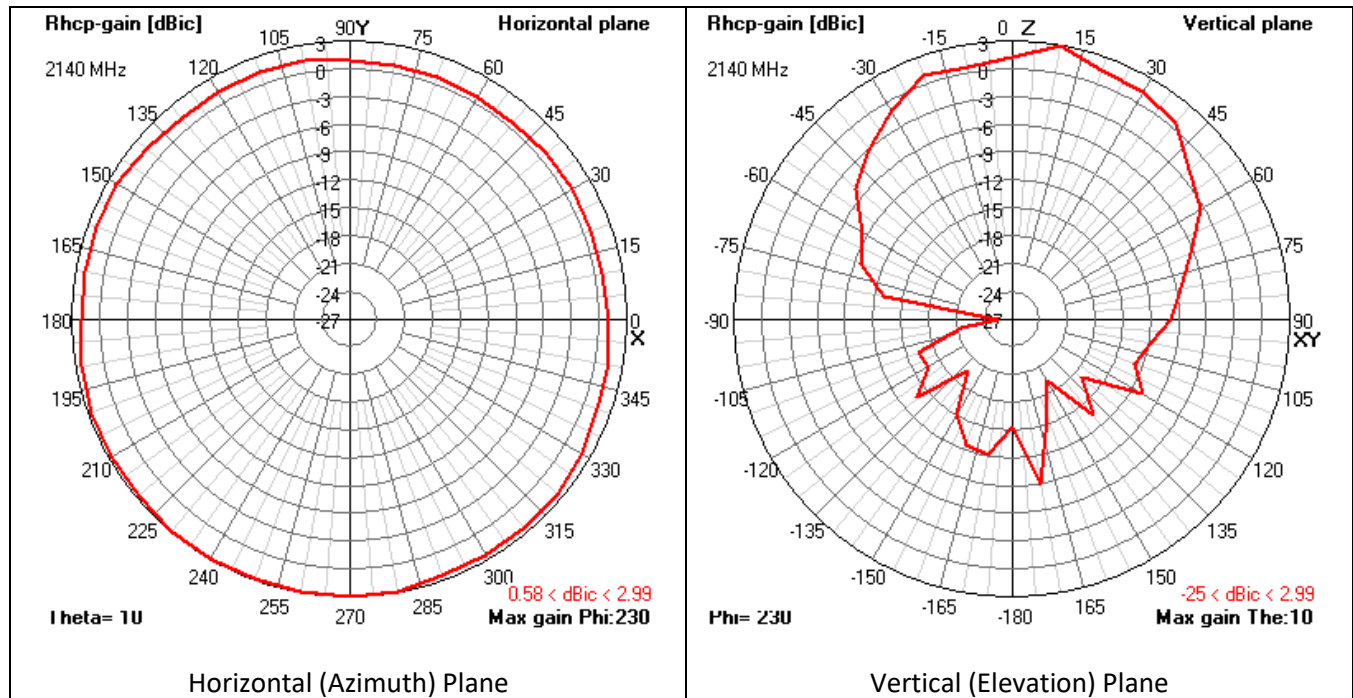
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Radiation Patterns

2140 MHz



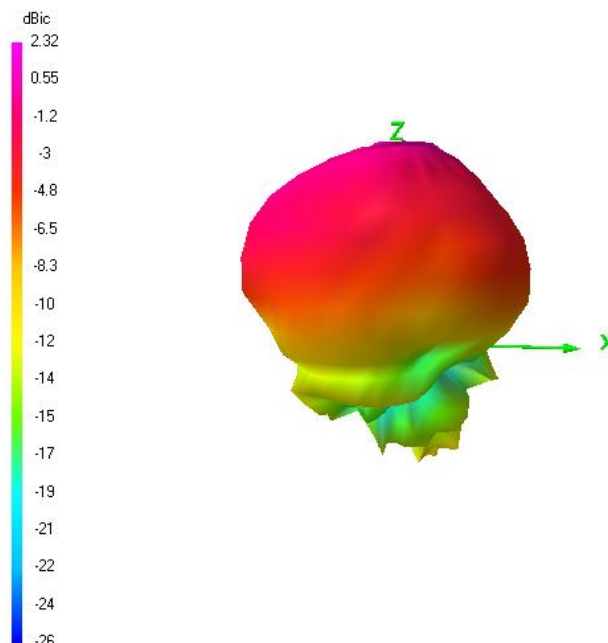
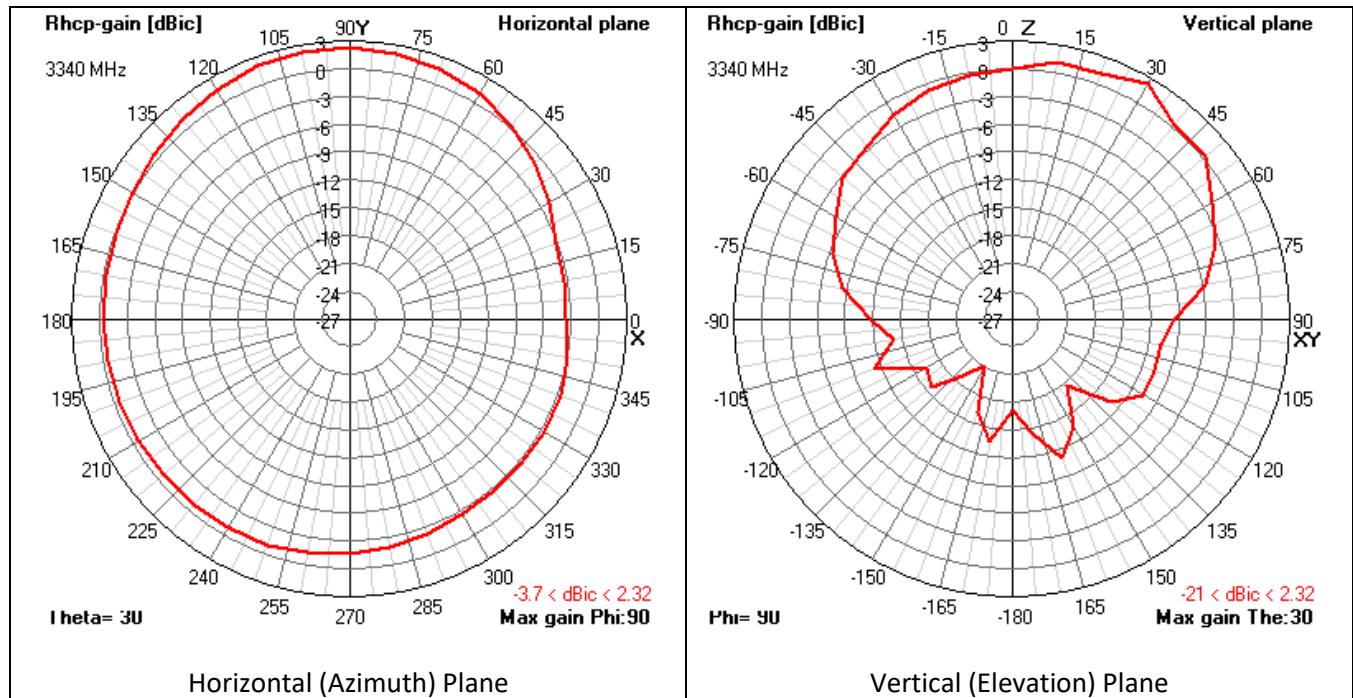
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Radiation Patterns

3340 MHz



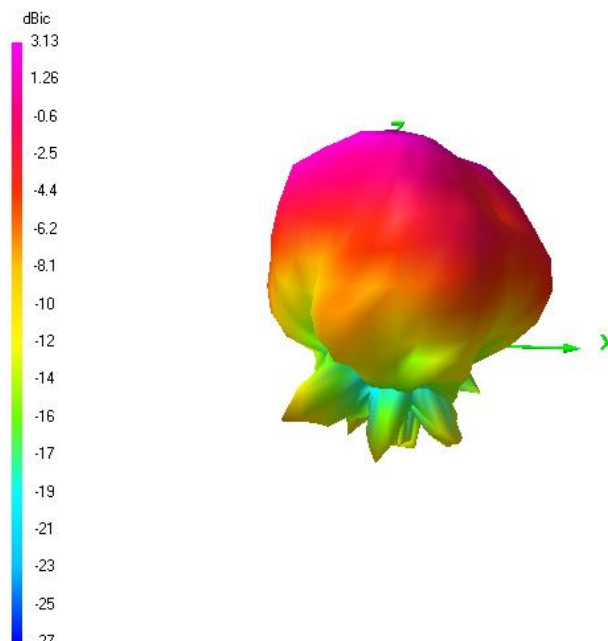
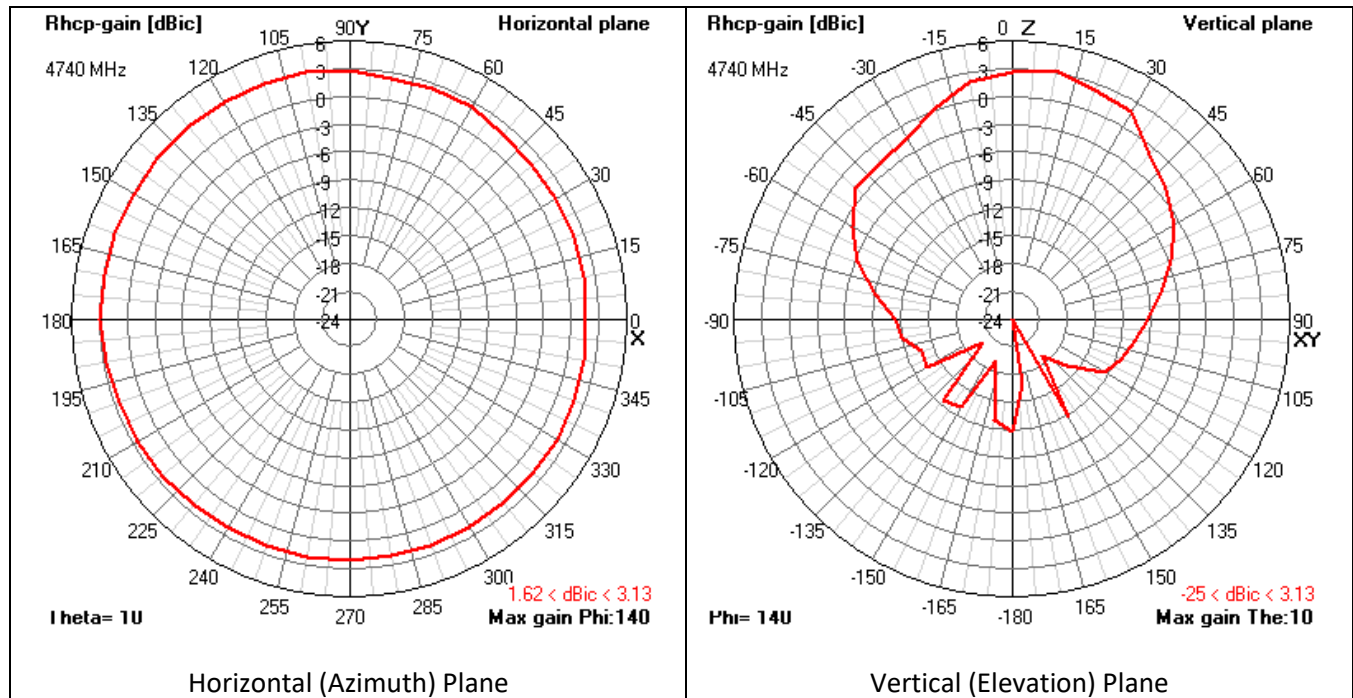
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Radiation Patterns

4740 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:

Web: www.proxicast.com Tel: 1-877-777-7694

Email: sales@proxicast.com 1-412-213-2477

Proxicast • 312 Sunnyfield Drive, Suite 200 • Glenshaw, PA 15116 USA

For technical questions and application information:

Email: support@proxicast.com

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