

# ANT-131-M22

## Vandal Resistant Tri-Band WiFi 2x2 MIMO Omni Antenna



### Applications

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

### Product Features

- Vandal Resistant
- Low Profile ~ 3 inches Tall
- Weatherproof
- Compatible with all WiFi standards  
(a/b/g/n/ac/ax/be)
- Compatible with most WiFi Access Points/Routers
- 3 – 5 dBi Peak Gain
- Omni-Directional
- RP-SMA Male Connectors on 10 ft Low-Loss Coax



### Ordering Information

Part No.	Description
ANT-131-M22	Vandal Resistant Low Profile Triple Band WiFi Omni-Directional 2x2 MIMO Antenna - 3-5 dBi Gain - Fixed Mount - 10 ft Coax Lead

### General Description

This low profile (~ 3 inches tall) fixed screw mount omni-directional antenna provides 3 to 5 dBi of gain and works on all 2.4, 5.8 and 6-7 GHz WiFi frequency bands worldwide.

Ideal for use in vending machines, meter housings, equipment sheds, NEMA enclosures or other locations requiring a low-profile vandal resistant external antenna. Also suitable for vehicle mounting on buses, vans, trucks or other mobile installations.

Permanently mounts via a 1/2 in. (13 mm) hole with locking internal nut. Resists vandalism with no exposed coax cable, high impact ABS radome shell and an extra thick threaded mounting post. Includes 10 ft of low-loss paired RG174 coax fed through center mounting post. Includes "L" bracket for optional wall mounting.

Two integrated RP-SMA male plug connectors mates with RP-SMA female jack found on most WiFi 2x2 MIMO access points and routers.

Completely waterproof (IP67) when properly installed with post extending into a water-tight enclosure. Not waterproof when used exclusively with wall bracket.

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

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## Electrical Specifications

Parameter	Rating
Frequency Range	2400-2483 / 5150-5250 / 5725-5850 / 5925-7125 MHz 802.11 a, b g, n, ac, ax, be
Gain	3 – 5 dBi
VSWR	≤ 2.0:1
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	50 W
DC Grounded	No
Ground Plane	8 inch (20 cm) diameter min

## Mechanical Specifications

Parameter	Rating
Connector Type	2x Reverse Polarity SMA Male (plug)
Cable Length	10 ft (3 m) of RB174 low-loss paired coax
Height	Radome: 3.2 inches (82 mm) above mounting surface Overall: 4.0 inches (102 mm)
Diameter	Radome: 1.9 inches (48 mm) at base Mounting post diameter: 0.5 inches (12 mm) Mounting post length: 0.7 inches (18 mm)
Weight	4 oz (113 g excluding mounting bracket)
Materials	Radome: UV stabilized ABS plastic Connector: Brass with Nickel plating Mounting Bracket: Aluminum Adhesive Pad: Urethane Foam RoHS Compliant
Antenna Color	Black
Operating Temperature	-40°C to +70°C
Environmental Rating	IP67 (waterproof)

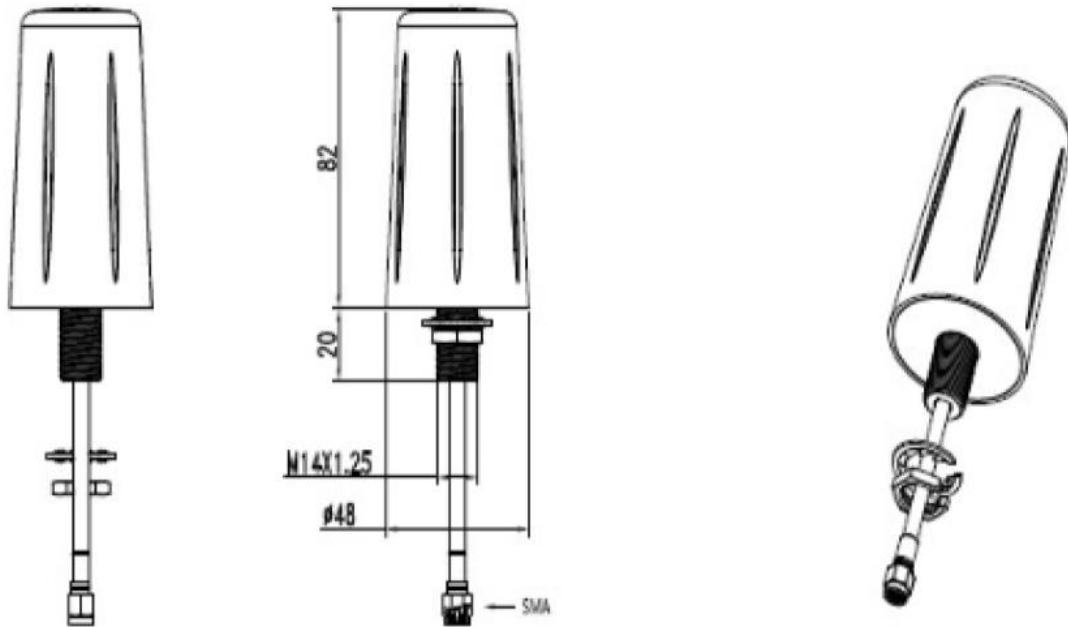
Operation of this device outside the parameter ranges given above may cause permanent damage.

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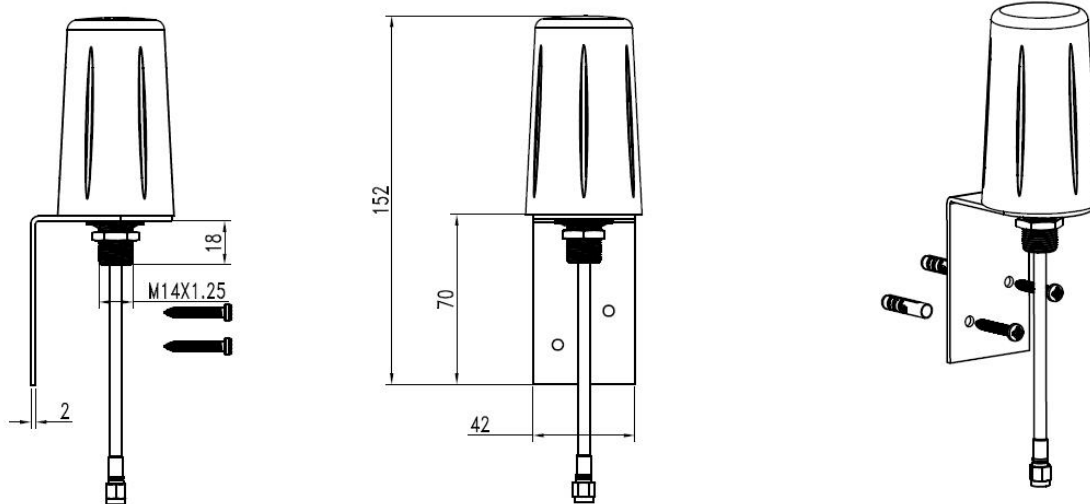
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## Mechanical Dimensions



## With Wall Mounting Bracket



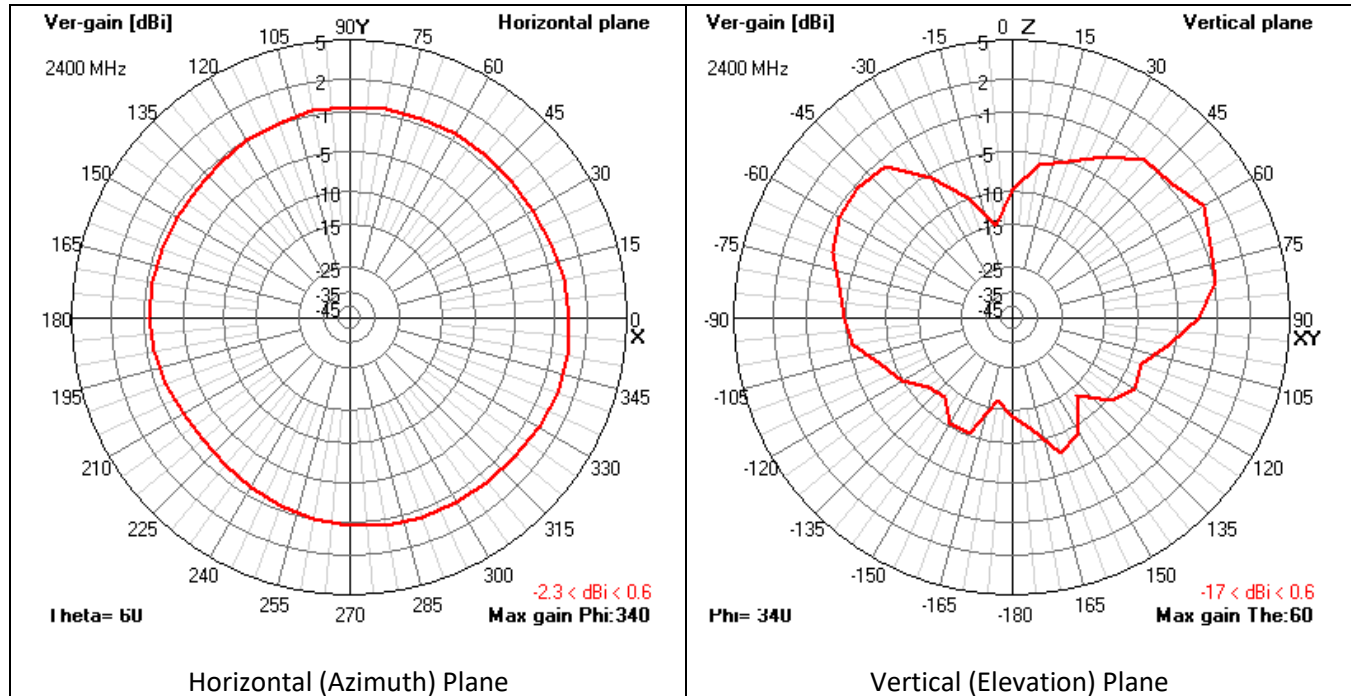
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## Radiation Patterns

### 2400 MHz



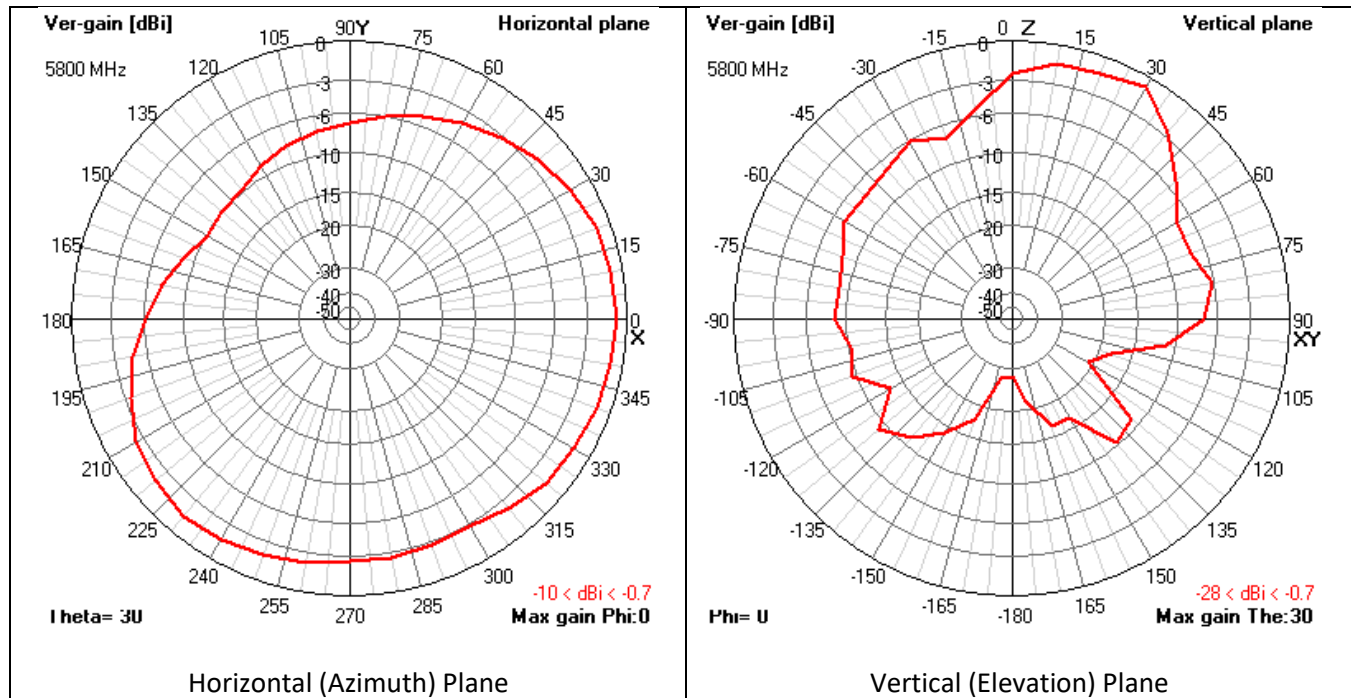
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## Radiation Patterns

**5800 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" (13mm) 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 from underneath
- Optionally apply a thin bead of silicone caulk around the antenna rim
- Weatherproof all outdoor connectors

## Contact Information

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

**Web:** [www.proxicast.com](http://www.proxicast.com)      **Tel:** 1-877-777-7694

**Email:** [sales@proxicast.com](mailto:sales@proxicast.com)      1-412-213-2477

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For technical questions and application information:

**Email:** [support@proxicast.com](mailto:support@proxicast.com)

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