

ANT-121-T66

Vandal Resistant 6-in-1 4x4 5G + 2x2 WiFi Omni Antenna



Applications

- Kiosks
- Hotspots
- IOT / Industrial Automation
- Vehicle Passenger Connectivity
- Vehicle-to-Vehicle (V2V)
- Vehicle-to-Everything (V2X) Autonomous Driving
- Recreational Vehicle

Product Features

- Vandal Resistant – Through Hole Mount
- Low Profile ~ 2.5 inches Tall
- IP67 Weatherproof
- 5G: 4x4 MIMO 3 – 5 dBi Peak Gain
- WiFi: 2x2 MIMO 2 – 5 dBi Peak Gain
- Omni-Directional
- 4x SMA Male + 2x RP-SMA Male Connectors
- Supports WiFi-6E and WiFi-7
- Made in Taiwan

Ordering Information

Part No.	Description
ANT-121-T66-B-02	Black Antenna with 2 ft Coax

Country of Origin: Taiwan
HTS Code: 8517.71.00.00
TAA Compliant: Yes



General Description

This low profile (2.5 inch tall) fixed mount omni-directional 5G 4x4 MIMO + WiFi 2x2 MIMO external 6-in-1 combination antenna provides 3 to 5 dBi of gain and supports all sub 6 GHz cellular frequency bands for AT&T, Verizon, T-Mobile, Bell, Rogers, Telus and other carriers worldwide. It also includes 2 integrated WiFi elements for simplified installation.

Permanently mounts via a 5/8 in (16 mm) hole with internal nut. Resists vandalism with no exposed coax cable, a high impact polycarbonate radome shell and an extra thick stainless steel threaded mounting post and hardware. Completely waterproof (IP67).

Integrated Right Angle SMA male plug connectors for 5G mate with SMA female jacks found on most cellular modems and routers.

Integrated Right Angle RP-SMA male plug connectors for WiFi mate with Reverse Polarity SMA female jacks found on most WiFi equipment.

Ideal for Kiosks, Hotspots, Vehicle Passenger Connectivity, IOT, Industrial Automation, Mobile Video, Vehicle-to-Vehicle (V2V) and Vehicle-to-Everything (V2X) Autonomous Driving and Recreational Vehicle Applications.

* 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 – 4G/5G

Parameter	Rating
Frequency Range	600~6000 MHz All 4G & 5G Sub-6 (FR1) Bands including FirstNet and CBRS (OnGo)
Peak Gain	3-5 dBi frequency dependent
Radiation Pattern	Omni-Directional
VSWR	< 1.5:1 in band
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	50 W
DC Grounded	No
Ground Plane	8 inch (20 cm) diameter min

Electrical Specifications – WiFi

Parameter	Rating
Frequency Range	2.4 GHz Band (2.400~2.4853GHz) 5 GHz Band (5.150~5.850GHz) 6 GHz Band (5.925~7.125GHz)
Impedance	50 Ohm
Antenna Gain	2.0 - 5.0 dBi
VSWR	< 1.5:1 in band
Radiation	Omnidirectional
Polarization	Vertical
Max Input Power	50 W
DC Grounded	No
Ground Plane	8 inch (20 cm) diameter min

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Mechanical Specifications

Parameter	Rating
Connector Type	4x Right-Angle SMA Male 2x Right-Angle RP-SMA Male
Cable Type	4G/5G: 4x 2 ft (0.6 m) Low-loss LMR100 coax WiFi: 2x 2 ft (0.6 m) Low-loss LMR100 coax
Height	Radome: 2.5 inches (64.4 mm) above mounting surface Overall: 3.3 inches (84.4 mm)
Diameter	Radome: 2.1 inches (53 mm) at base Mounting post: 5/8 inches (16 mm x 1.5 mm thread)
Weight	17 oz (482 g)
Materials	Radome: UV Stabilized Polycarbonate & ABS Connectors: Gold-Plated Brass Mounting Post & Hardware: Stainless Steel Gasket: Rubber RoHS Compliant
Antenna Color	Black
Operating Temperature	-30°C to +70°C
Environmental Rating	IP67 (waterproof)
Shock (Drop Test) Shock (Half Sine Wave)	100 cm drop on concrete 10 msec

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

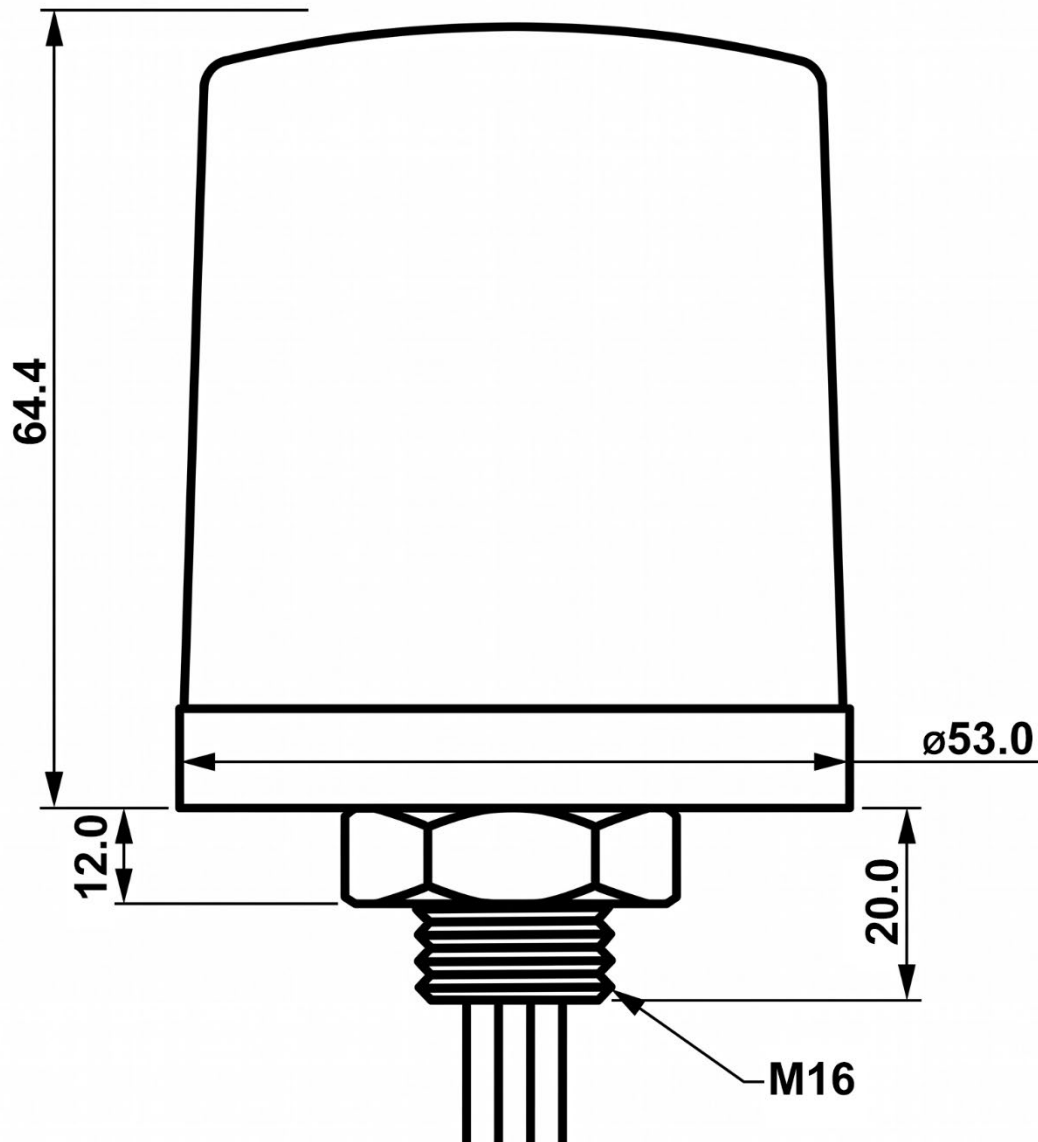
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Mechanical Dimensions

All dimensions in millimeters.



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Additional Product Images

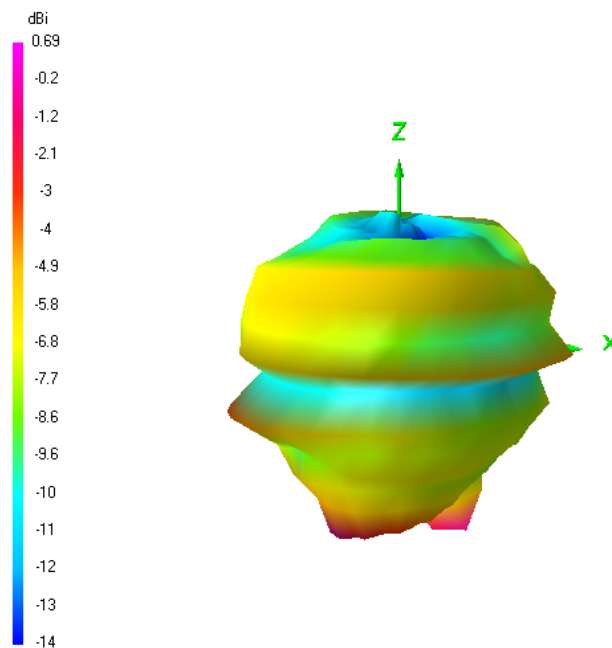
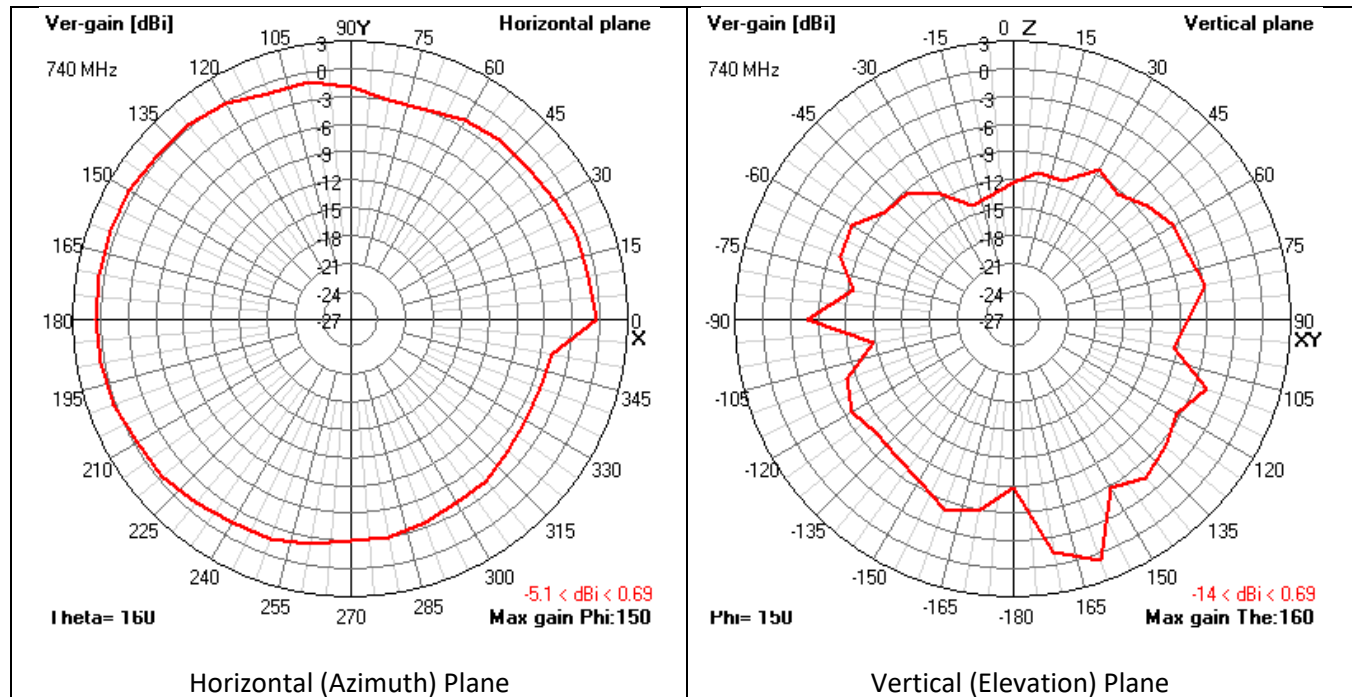


Through Hole Screw Mount



The logo for proxicast, featuring a blue Wi-Fi symbol above the word "proxicast" in a black, lowercase, sans-serif font, with a registered trademark symbol (®) to the upper right of the text.

740 MHz



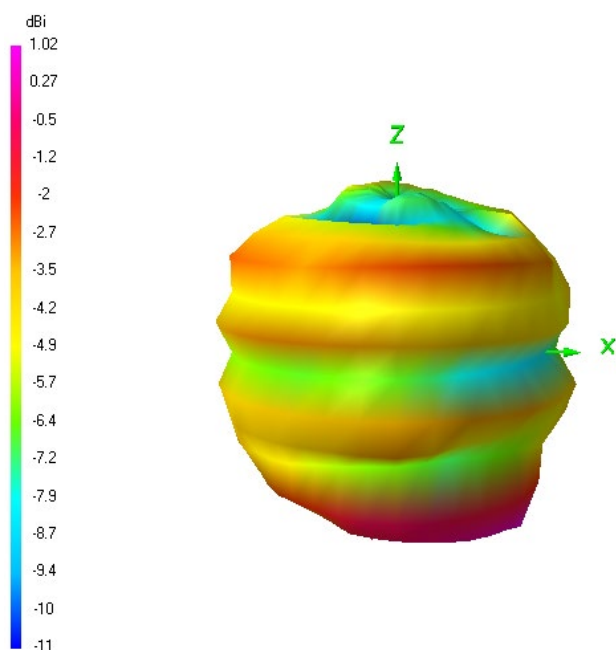
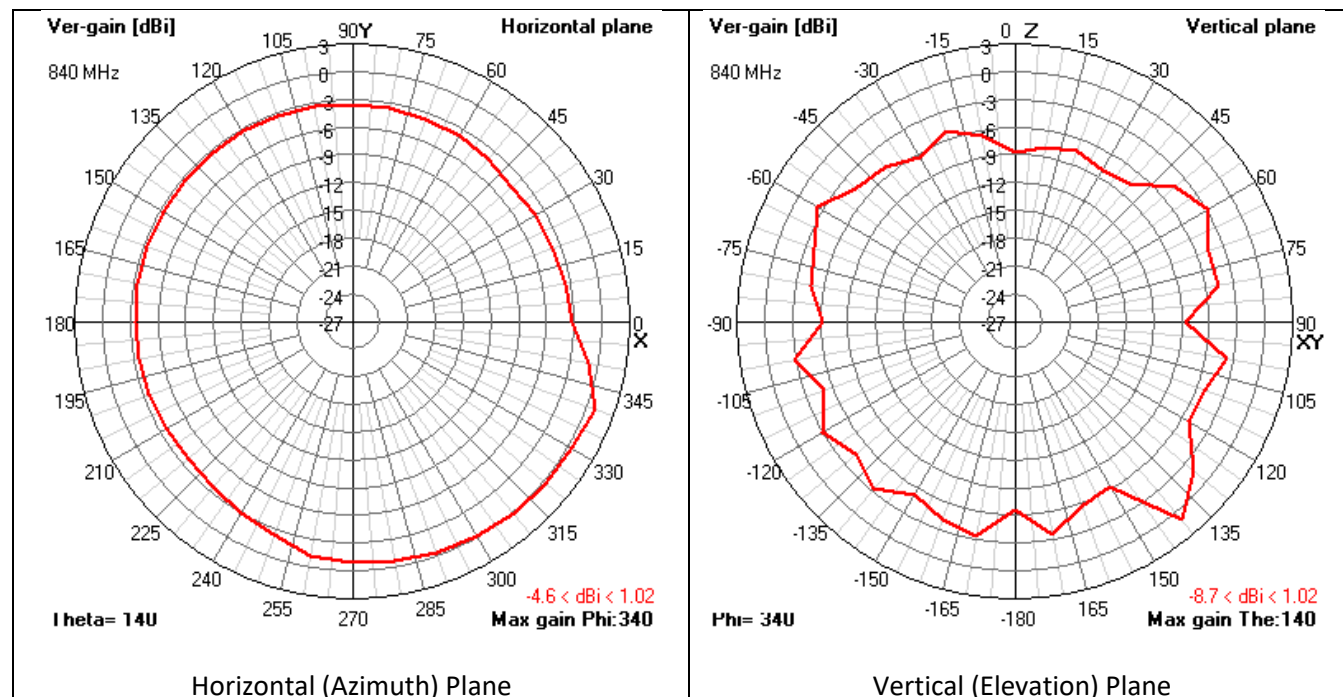
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Radiation Patterns

840 MHz



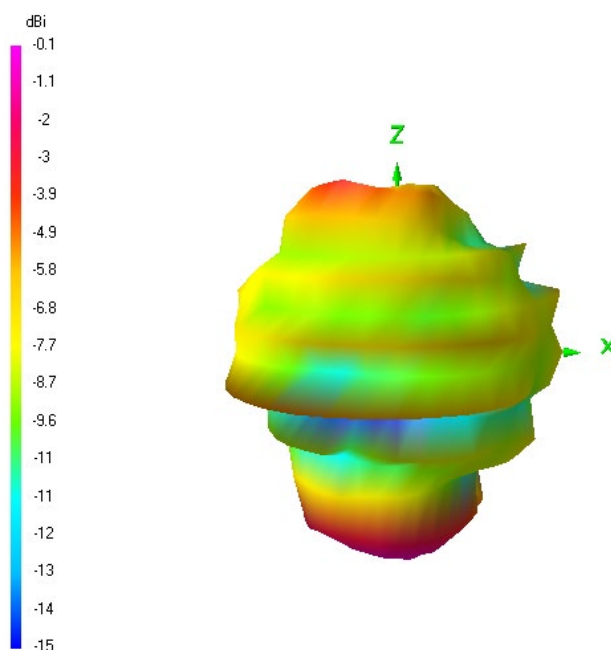
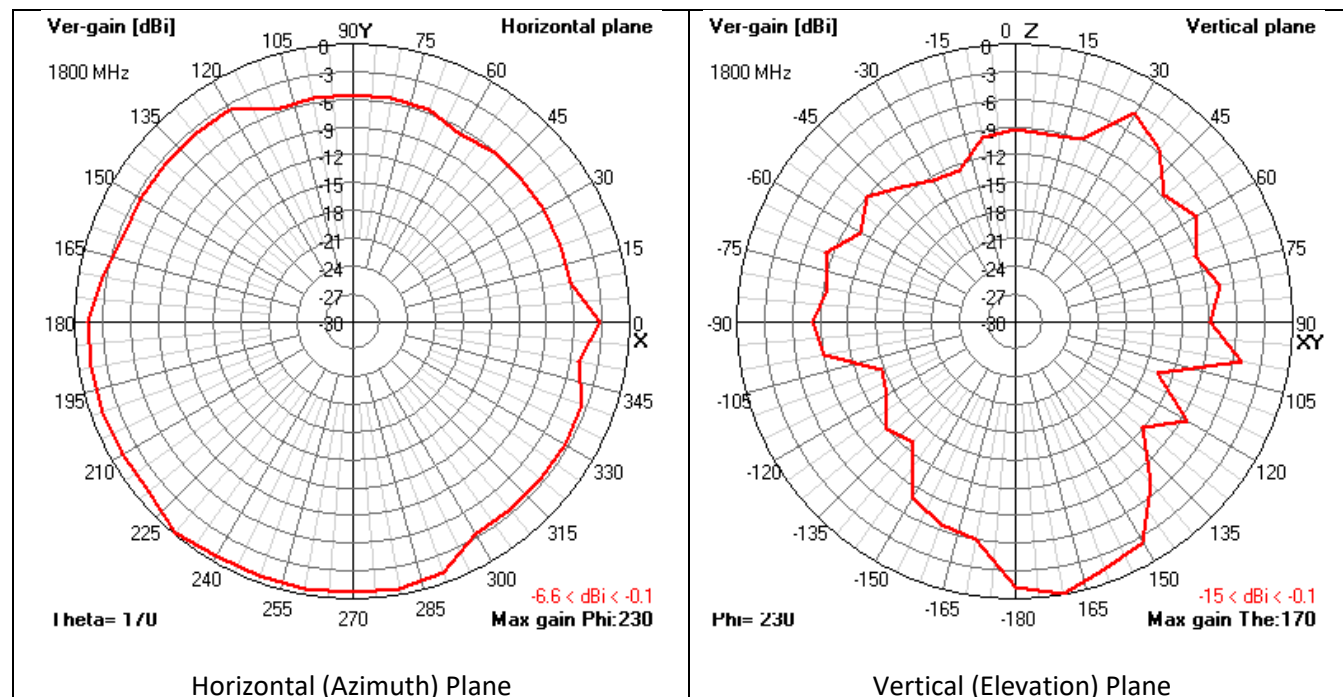
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Radiation Patterns

1800 MHz



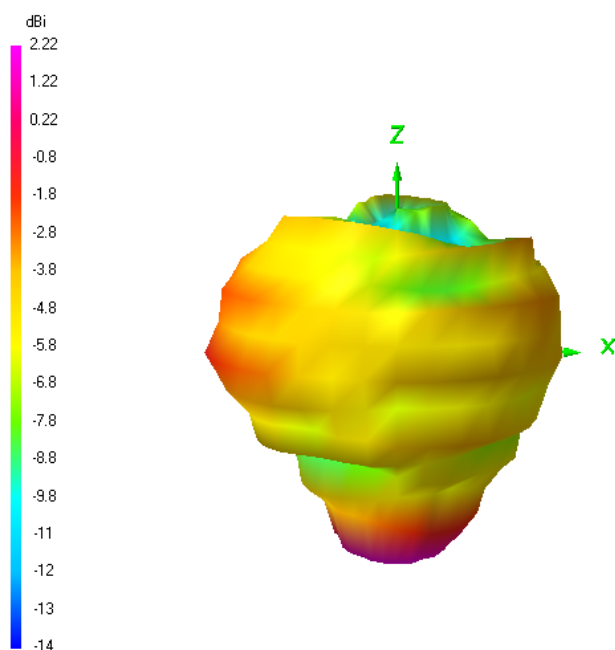
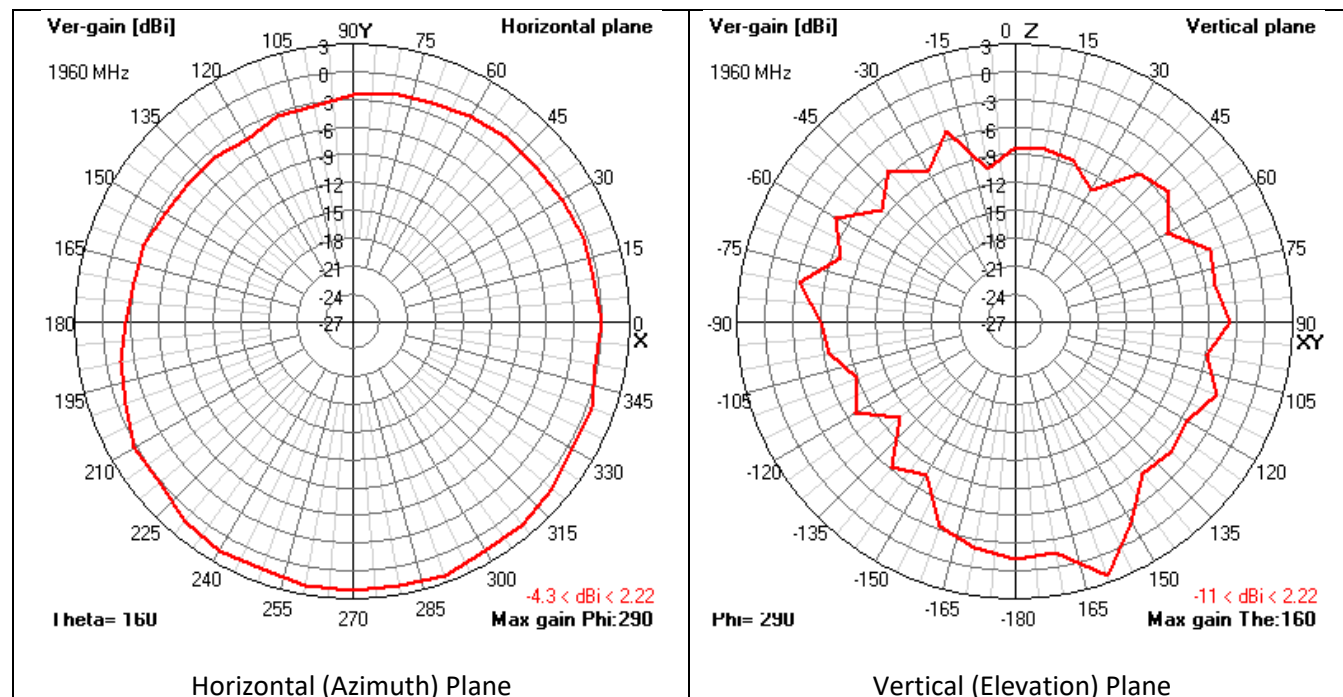
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Radiation Patterns

1960 MHz



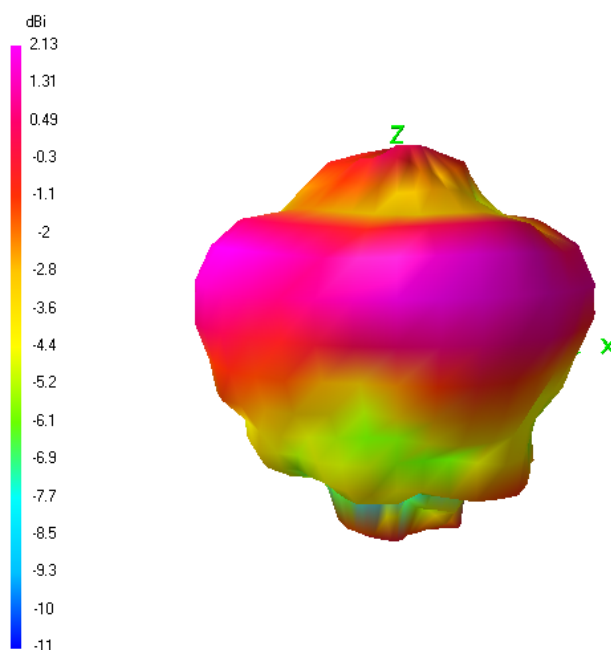
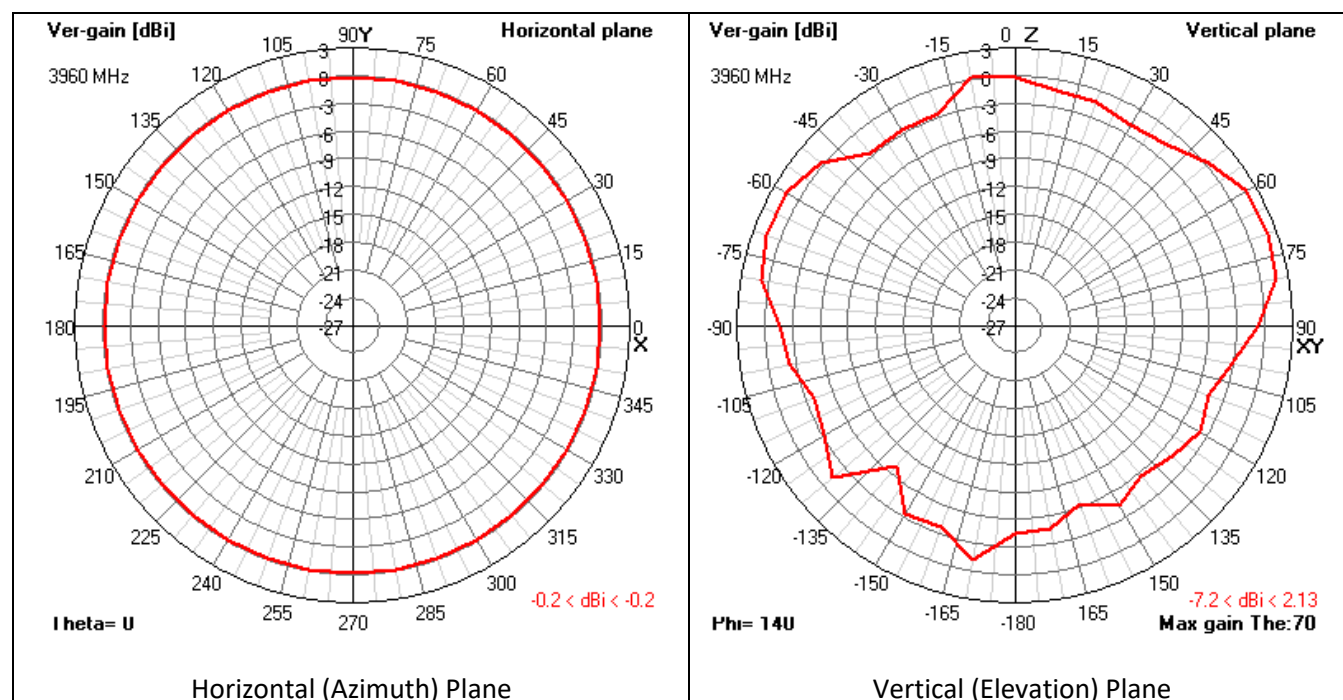
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Radiation Patterns

3960 MHz



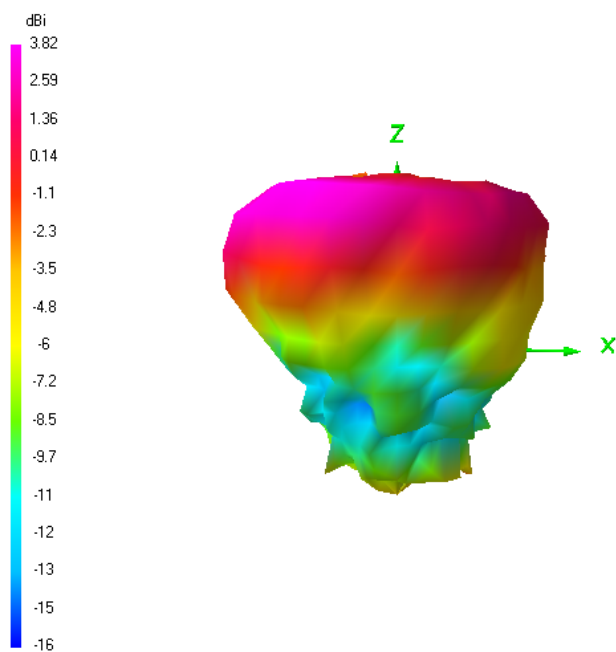
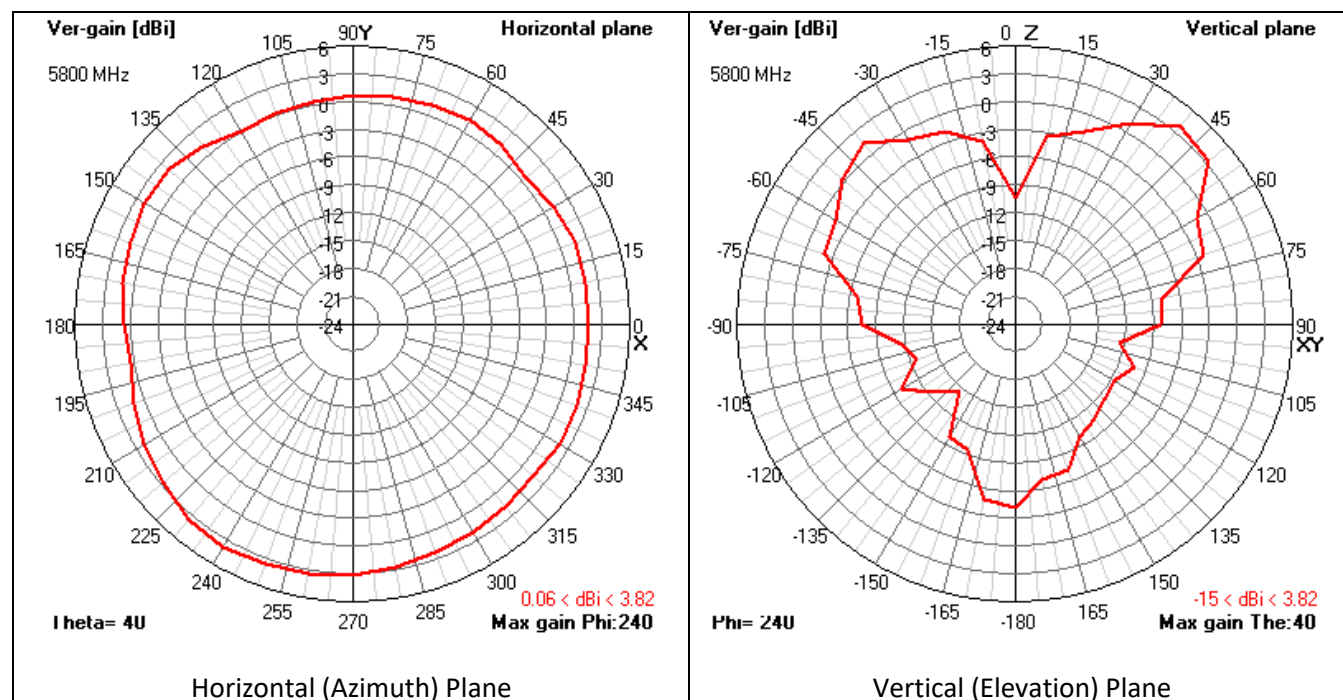
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Radiation Patterns

5800 MHz



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- 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 5/8" (16mm) hole in flat horizontal metal surface
- Remove mounting nut and feed coax cable through hole
- Press antenna into hole and tighten nut & washer from underneath
- Optionally apply a thin bead of silicone caulk around the antenna rim
- Keep 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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Email: sales@proxicast.com 1-412-213-2477

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Email: support@proxicast.com

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