

# ANT-126-002

## 10 dBi Omni-Directional Compact 4G/5G Antenna



### Applications

- 4G/LTE & 5G Sub-6 Routers & Modems
- Cellular Amplifiers
- Signal Challenged Locations Requiring High Gain Omni-Directional Antennas
- Installations Requiring an Aesthetic Solution
- Pole, Rail & Wall Mount Options



### Product Features

- Compatible with most Cellular Modems/Routers
- Compatible with all 4G/LTE & 5G Sub-6 Networks
- High Radiating Efficiency
- Integrated N Female Connector
- No Ground Plane Required
- Durable White ABS Radome
- Stainless Steel Mounting Bracket & Hardware
- Only 9 inches Tall

### Ordering Information

Part No.	Description
ANT-126-002	Proxicast High Gain 10 dBi Universal Wide-Band Compact 4G/5G Omni-Directional Outdoor Pole/Wall Mount Antenna

### General Description

Proxicast's small, light-weight, easy-to-install permanent mount omni-directional antenna improves transmit and receive signals for all 4G/LTE and 5G Sub-6<sup>1</sup> frequencies on Verizon, AT&T, Sprint, T-Mobile, US Cellular, Bell Mobility, Rogers, Telus, Sasktel, Telcel, Movistar, DigiCell and many other cellular operators worldwide.

This antenna is also suitable for 2.4 & 5.8 GHz WiFi band use.

The omni-directional design provides high gain without the cellular tower location and alignment hassles of directional antennas.

Its compact size and white finish blend into any environment and make it ideal for many outdoor applications, including building rooftops, utility poles, surveillance trailers, well sites, remote telemetry, homes and offices.

With the appropriate adapter cable (not included), this antenna is compatible with USB cellular modems and Mi-Fi Hotspots, external 4G/5G cellular modems, routers and signal amplifiers from companies such as CalAmp, Cisco, Cradlepoint, Digi, MoFi, Netgear, Novatel, Pepwave, Proxicast, Sierra Wireless, SureCall, weBoost/Wilson and ZTE.

For MIMO applications use 2 identical antennas. Proxicast's XBOOM Cross-Over Bracket (ANT-800-XB1) makes it easy to mount 2 antennas on a single vertical mast.

<sup>1</sup> Sub-6 refers to the 600 to 6000 MHz frequency range (FR1) used by low and mid-band 4G & 5G cellular systems.

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### Electrical Specifications

Parameter	Rating
Frequency Range	600-6000 MHz includes all 2G, 3G, 4G, LTE and Sub-6 5G Bands used worldwide and 2.4 GHz & 5.8 GHz WiFi bands
Peak Gain	10 dBi
VSWR	≤ 2.8:1
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	100 W
Ground Plane	Not Required
Lightning Protection	Direct Ground

### Mechanical Specifications

Parameter	Rating
Connector Type	N Female (jack) integrated into base of antenna
Length	9.1 inches / 23 cm with bracket: 12.3 in / 31 cm
Diameter	2.8 inches / 70 mm
Weight	10.7 oz / 303 g with bracket: 20.5 oz / 581 g
Materials	UV Stabilized ABS, stainless steel, zinc, brass, nickel - RoHS compliant
Antenna Color	White
Operating Temperature	-40°C to +70°C
Mounting	Pole/Rail/Wall Mount via integrated bracket (2.0" dia. U-bolts included)

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

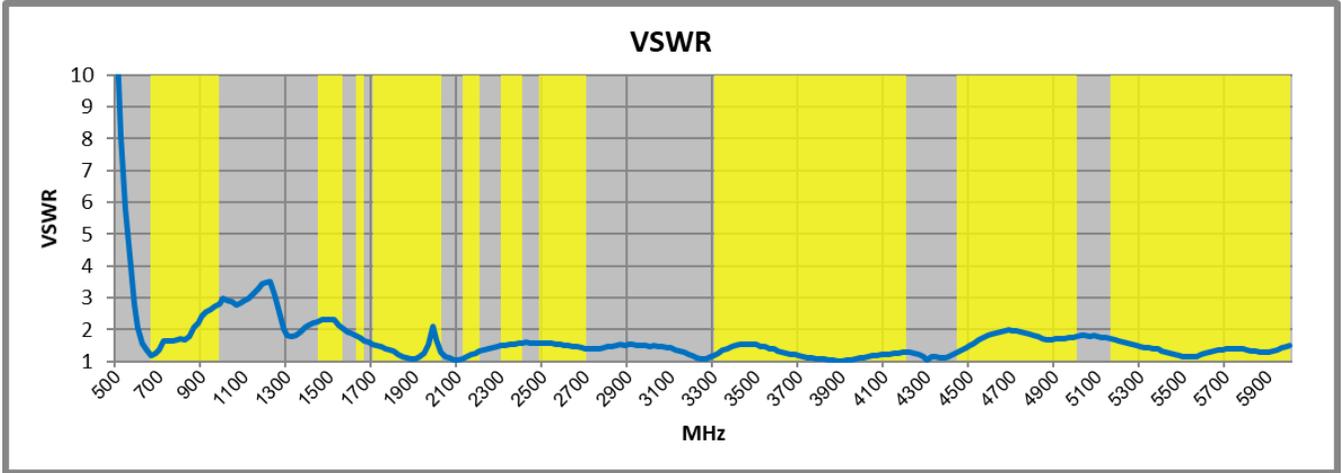
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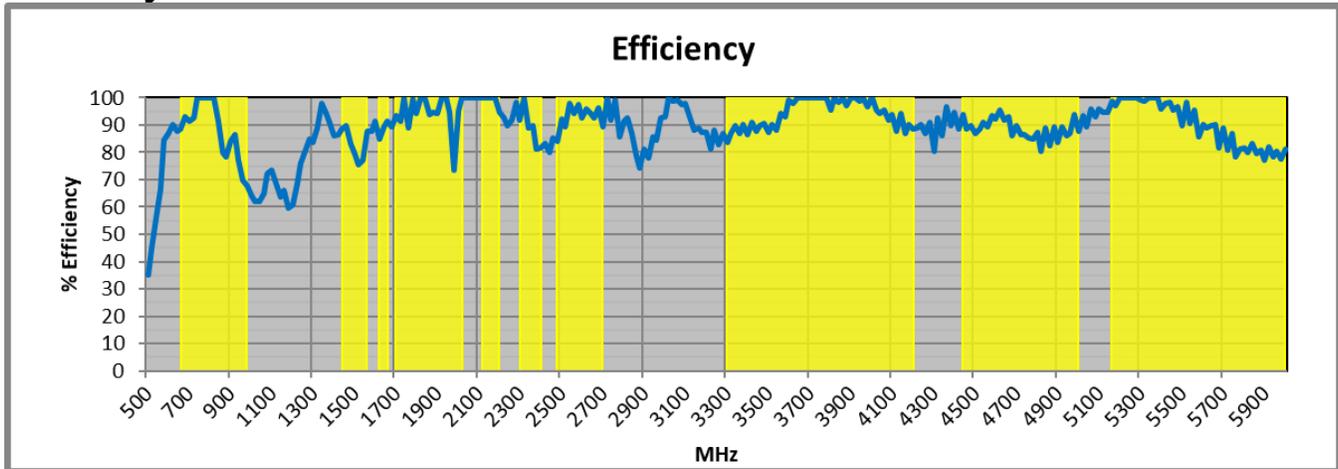


## Electrical Characteristics

### VSWR



### Efficiency



Highlighted areas represent the 4G/5G Sub-6 frequency bands.

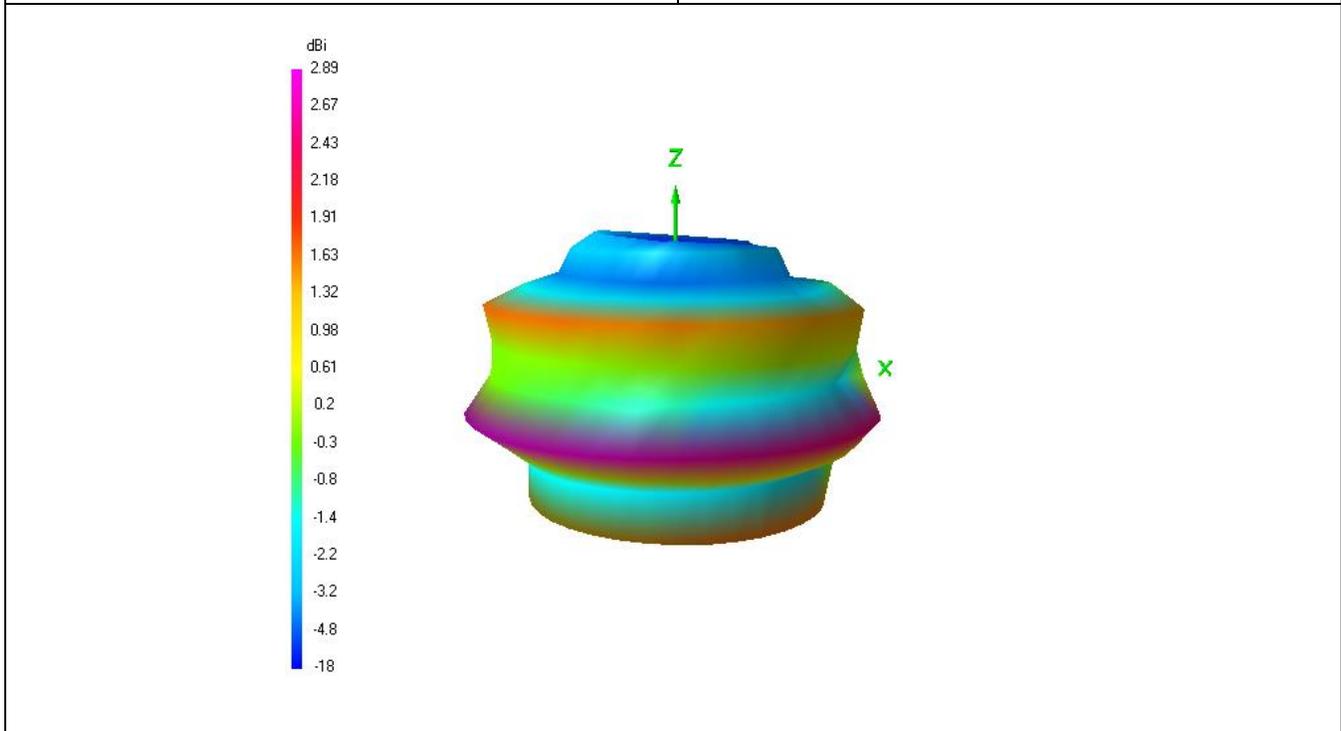
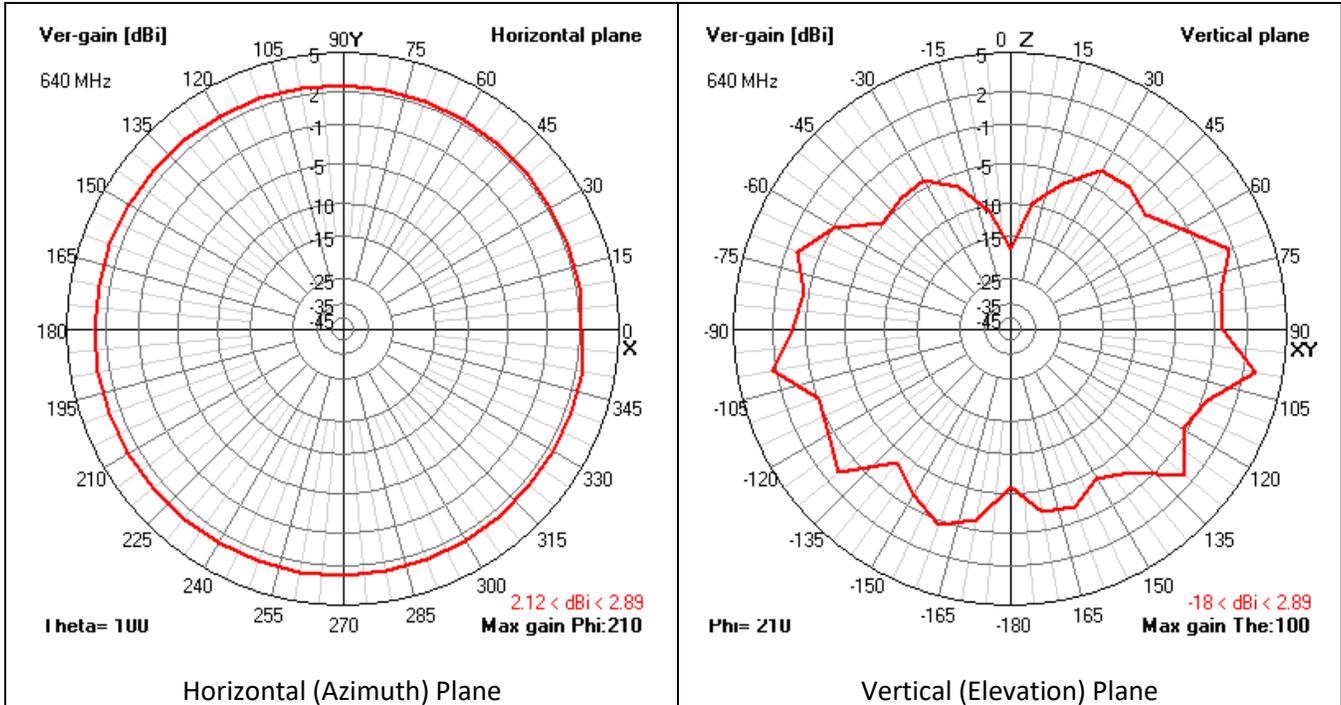
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## Radiation Patterns

640 MHz



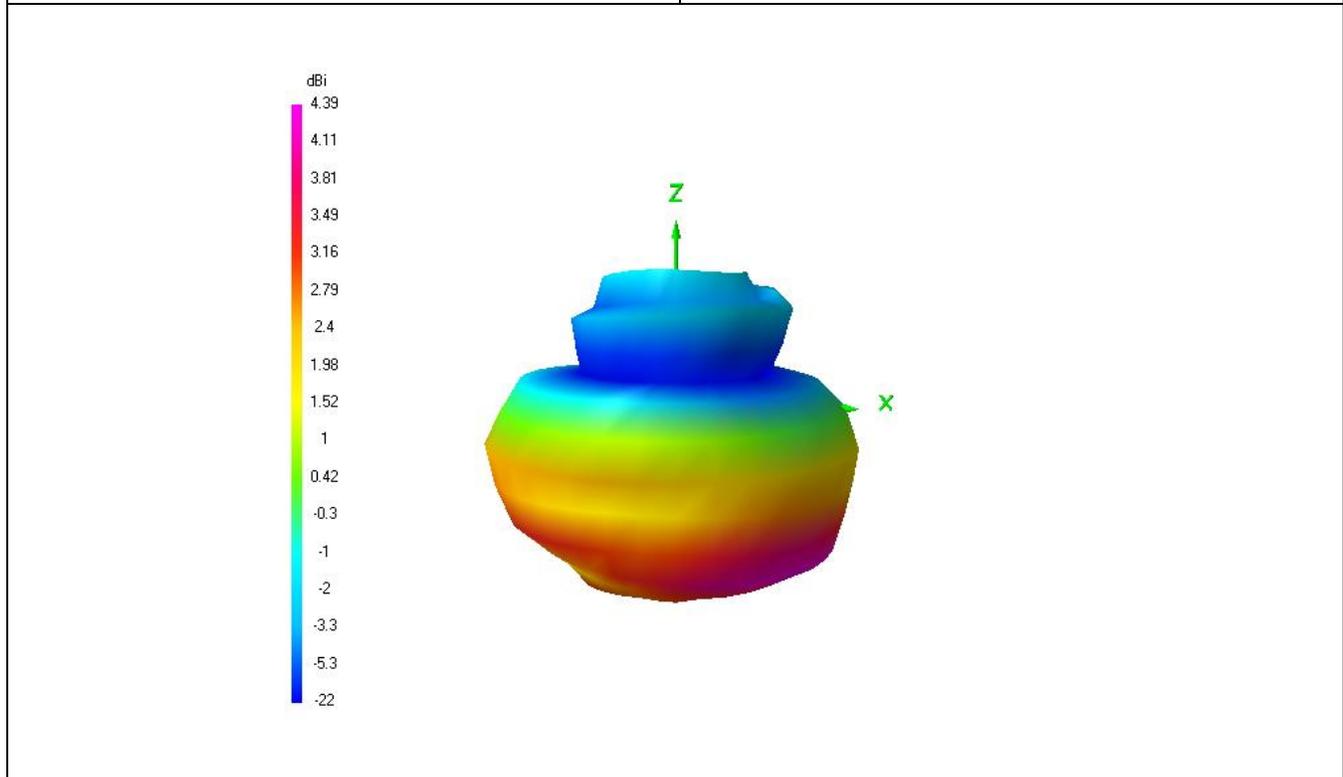
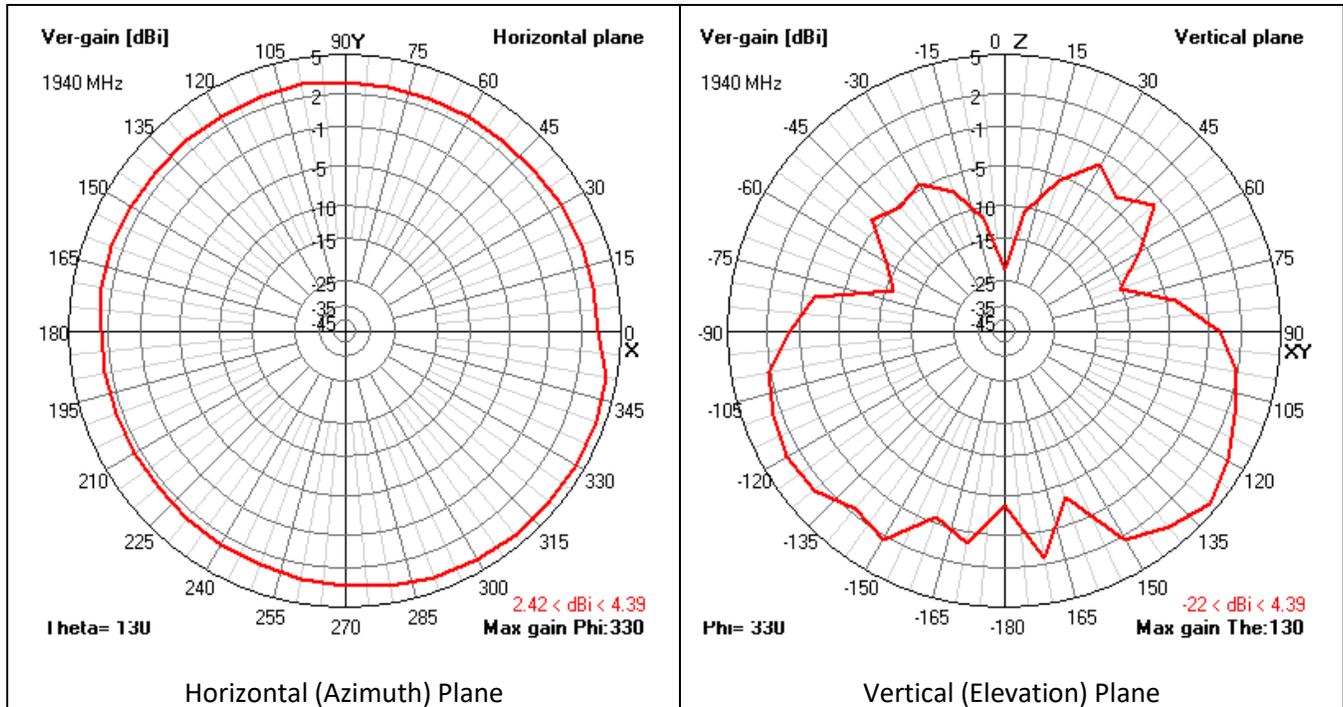
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## Radiation Patterns

1940 MHz



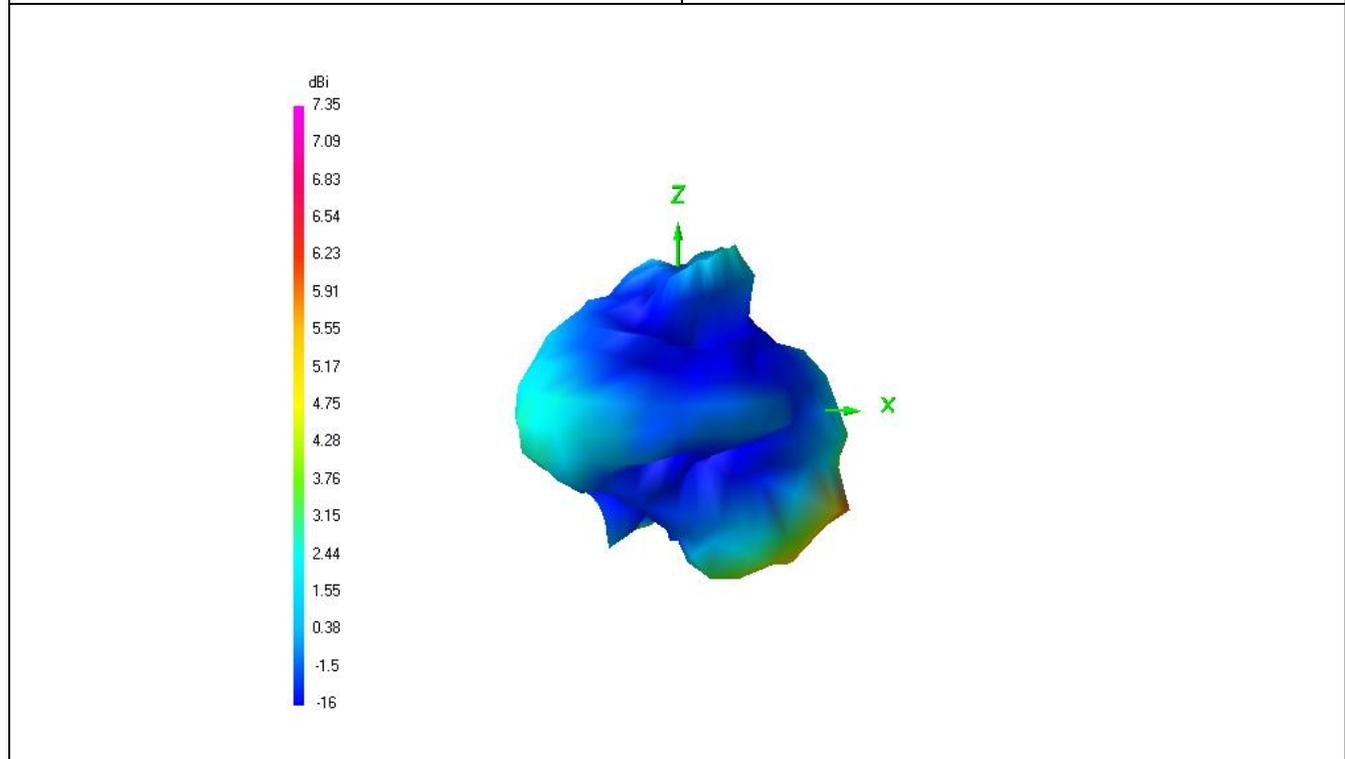
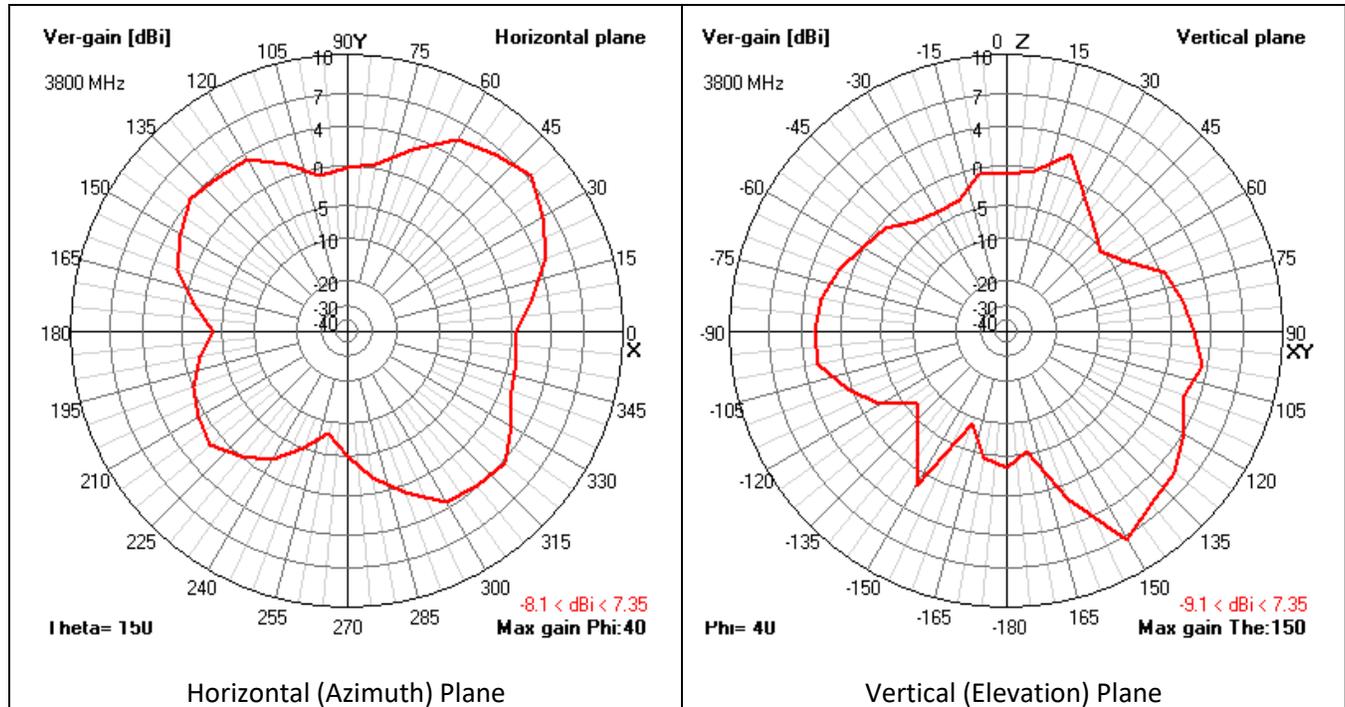
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## Radiation Patterns

3800 MHz



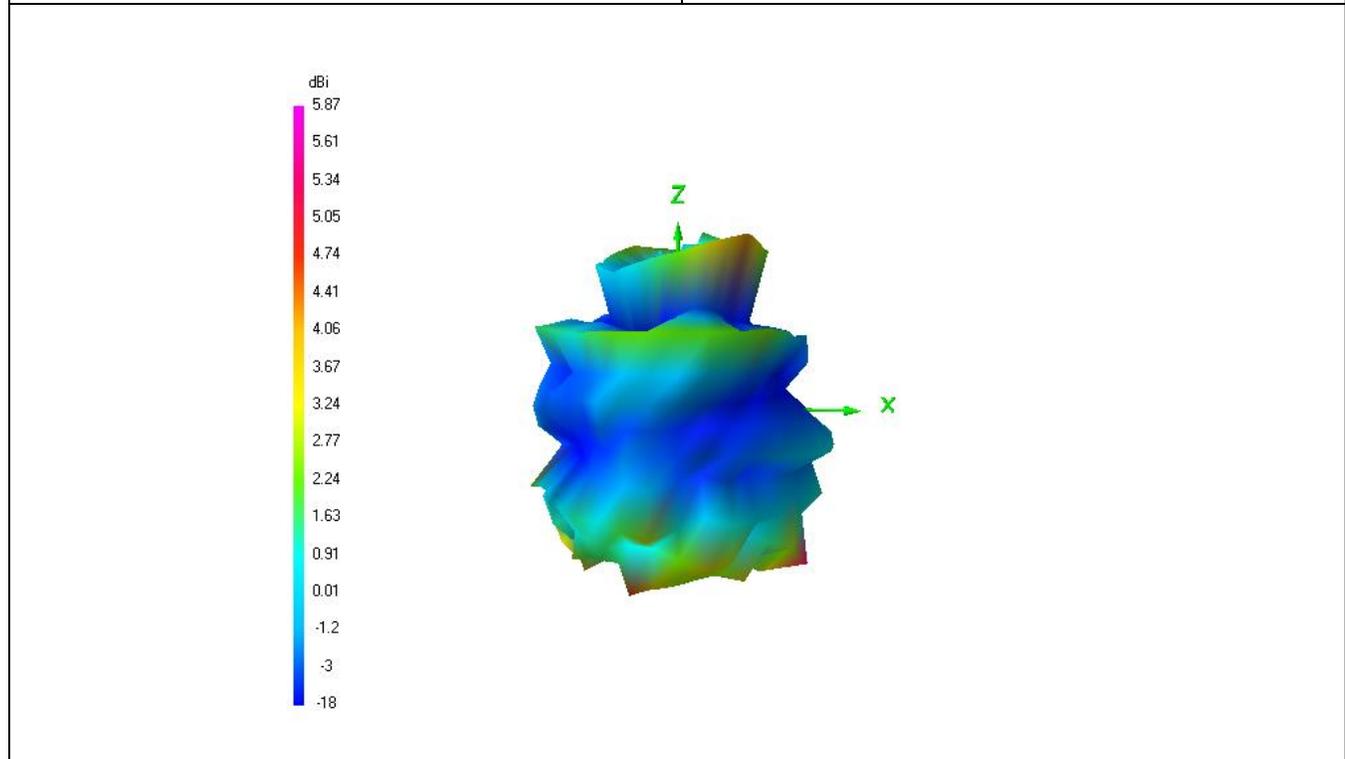
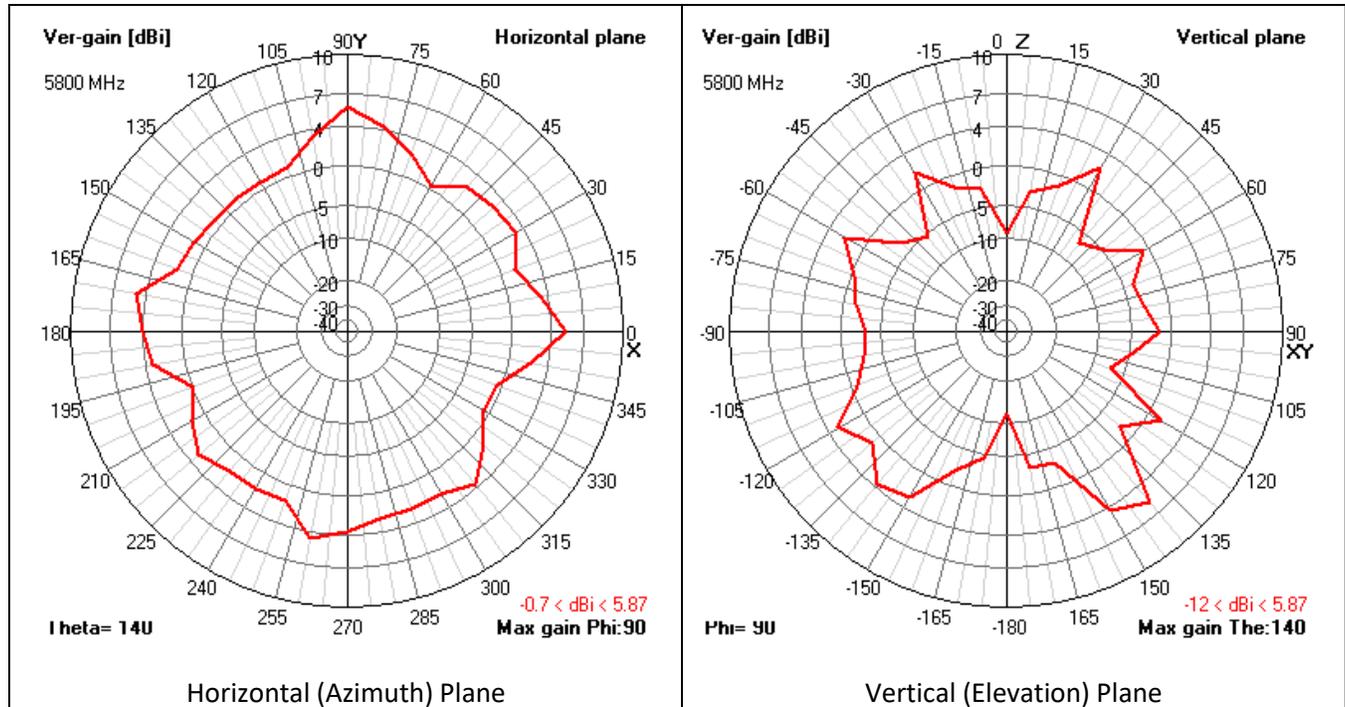
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## Radiation Patterns

5800 MHz



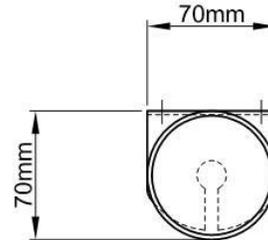
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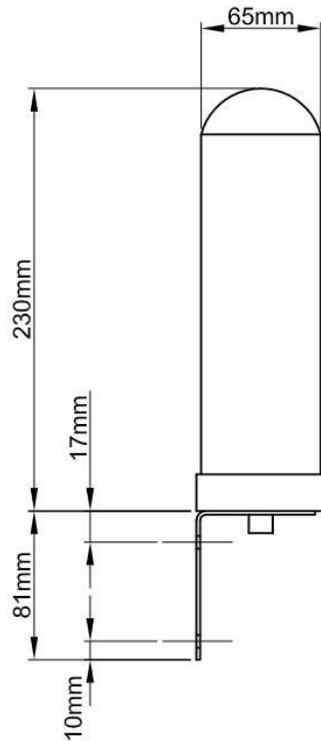


## Mechanical Dimensions

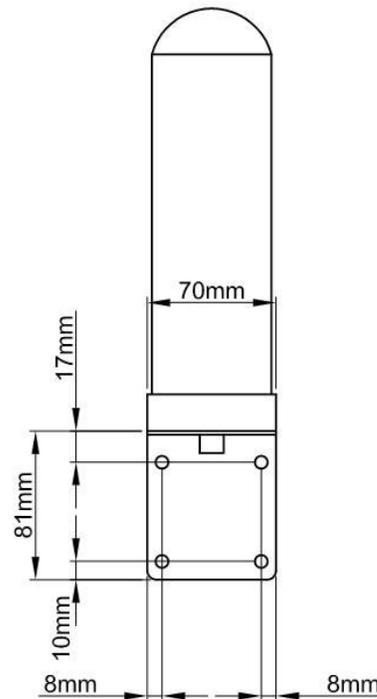
Dimensions in millimeters



TOP VIEW



SIDE VIEW



FRONT VIEW

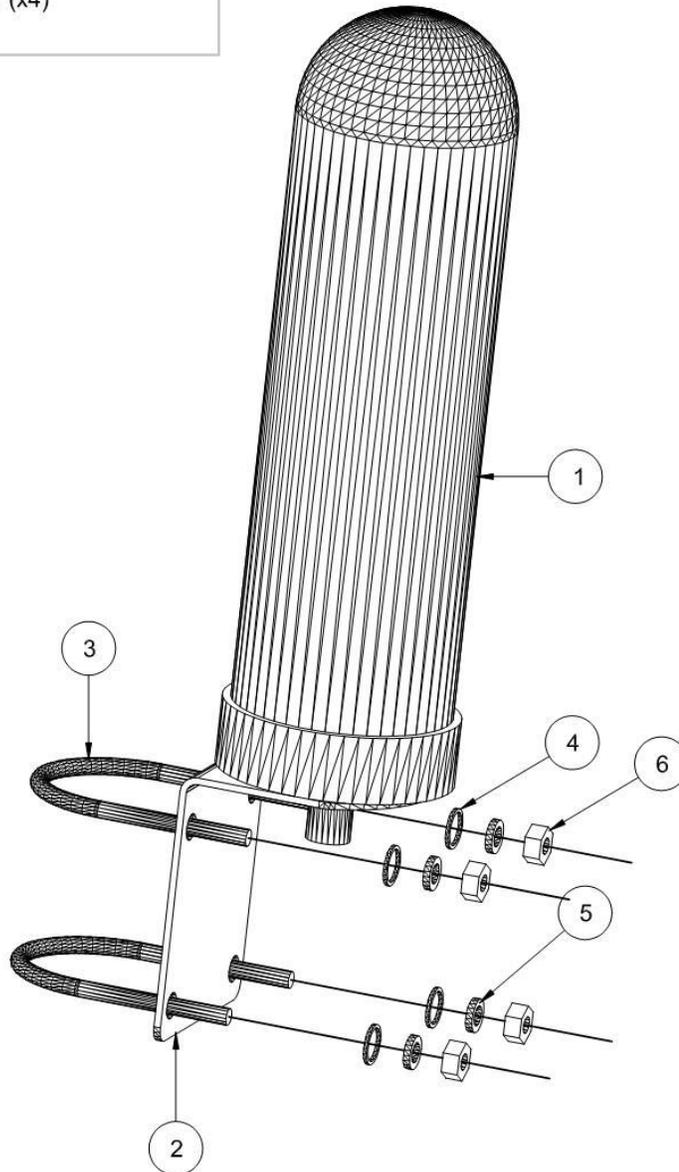
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## Assembly Instructions

- 1 = Antenna
- 2 = L Bracket
- 3 = U Bolt (x2)
- 4 = Washer (x4)
- 5 = Lock Washer (x4)
- 6 = Nut (x4)



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## Additional Product Images



# ANT-126-002

## 10 dBi Omni-Directional Compact 4G/5G Antenna



### Installation Instructions

- Orient antenna vertically
- Position away from:
  - CRT/TVs
  - Lighting fixtures & motors
  - Other antennas & wireless devices
  - Low-E or tinted/coated windows
  - Large vertical metal or concrete objects
- Mount as high as possible
- Weather seal outdoor coax connections
- Fully tighten coax connector to antenna connector
- Install in-line lightning protection if required by local building, fire, insurance or safety codes
- Use 2 identical antennas if modem supports diversity or MIMO

### 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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