

# ANT-120-007

## 5 dBi Omni-Directional 3G/4G/LTE Paddle Antenna



### Applications

- Direct Replacement for Low Gain Antennas included with many Cellular Products
- 3G/4G/LTE Routers & Modems
- Cellular Amplifiers
- Optional Magnetic Base



### Product Features

- Compatible with most Cellular Modems/Routers
- Compatible with all 3G/4G/LTE Networks
- 3 – 5 dBi Peak Gain
- Omni-Directional
- Integrated SMA Male Connector
- Swivels 90° & Rotates 360°
- No Ground Plane Required

### Ordering Information

Part No.	Description
ANT-120-007	Universal Wide-Band 5 dBi Omni-Directional 3G/4G/LTE Paddle Swivel Antenna
ANT-120-007-2PK	2 Pack of Identical Antennas
ANT-120-007-MAG	1 Antenna + 1 Magnetic Base + 10 ft Coax w/ SMA Male Connector (ANT-120-MB3)

### General Description

The Proxicast Flat Swivel Paddle Antenna is a high-efficiency mid-gain 3G/4G/GPS omni-directional antenna. The "rubber-duck" style antenna is an 7.7 inch (196 mm) omni-directional antenna that provides up to 5 dBi of gain and supports all 2G, 3G and 4G/LTE/xLTE/AWS frequency bands (698-2700 MHz) used by U.S. and Canadian cellular carriers such as Verizon Wireless, AT&T Wireless, T-Mobile, Rogers, Bell Mobility and Telus as well as most other cellular operators worldwide.

This antenna also covers the GPS frequency (1575 MHz) and can be used as a passive GPS antenna or as a multiplexed cellular + GPS antenna.

The polycarbonate antenna swivels 90 degrees and rotates 360 degrees for optimal positioning and maximum signal reception and has an integrated SMA male plug connector and ground-plane. This antenna is a smart choice for mobile or stationary applications where extra gain is required.

Compatible with all SMA-based equipment including modems and routers from Cisco, Cradlepoint, Digi, Pepwave, Proxicast, Sierra Wireless, Sixnet/Red Lion and many others.

For MIMO applications use 2 identical antennas.

Compatible with Proxicast's 3-inch SMA Magnetic Antenna Base (ANT-120-MB3).

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### Electrical Specifications

Parameter	Rating
Frequency Range	698-2700 MHz includes all 2G, 3G, 4G, LTE Bands
Gain	3 – 5 dBi
VSWR	≤ 3.0:1
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	50 W
DC Grounded	No
Ground Plane	Not Required

### Mechanical Specifications

Parameter	Rating
Connector Type	SMA Male (plug)
Length	7.72 inches / 196 mm
Width	1.5 inches / 38 mm
Weight	1.45 oz / 41 g
Materials	Polycarbonate / Brass - RoHS compliant
Antenna Color	Black
Operating Temperature	-40°C to +60°C

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

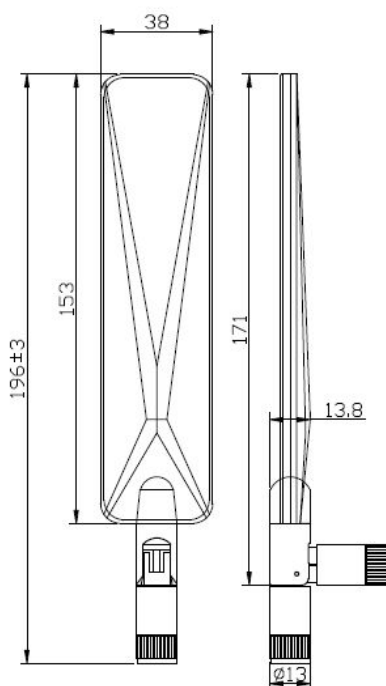
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## Mechanical Dimensions

Dimensions in millimeters



## Additional Product Images



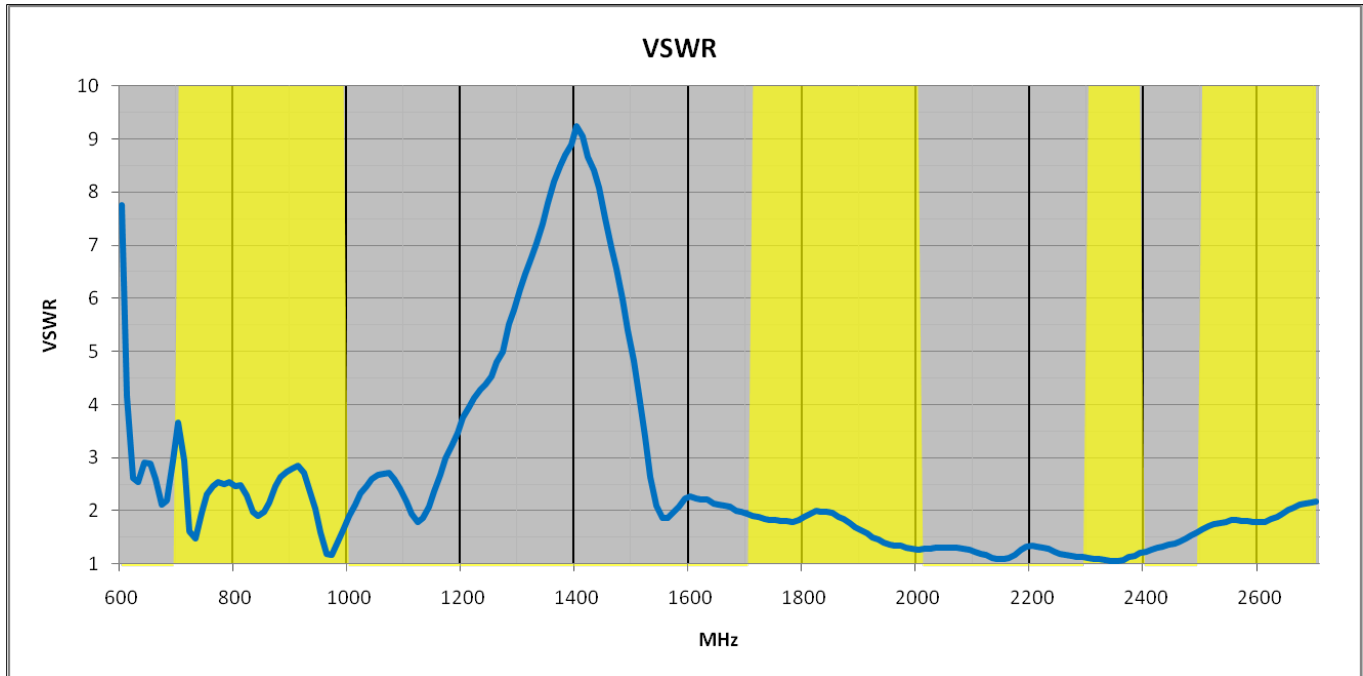
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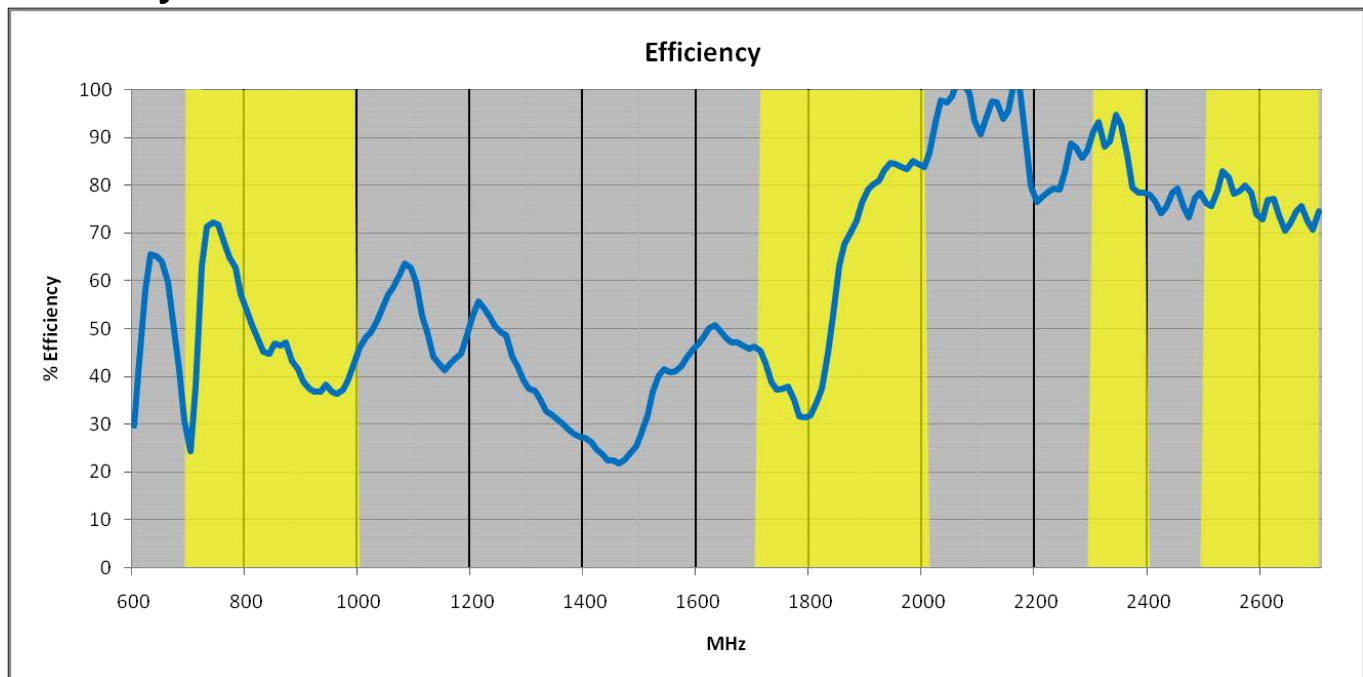


## Electrical Characteristics

### VSWR



### Efficiency



Highlighted areas represent the primary 3G/4G/LTE frequency bands.

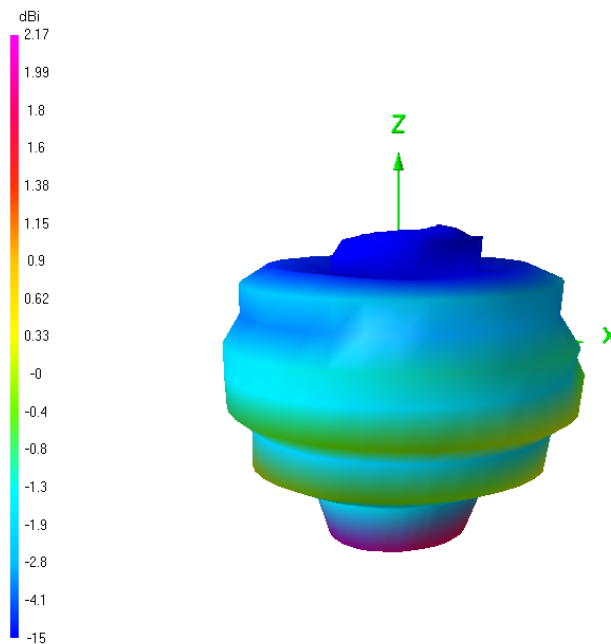
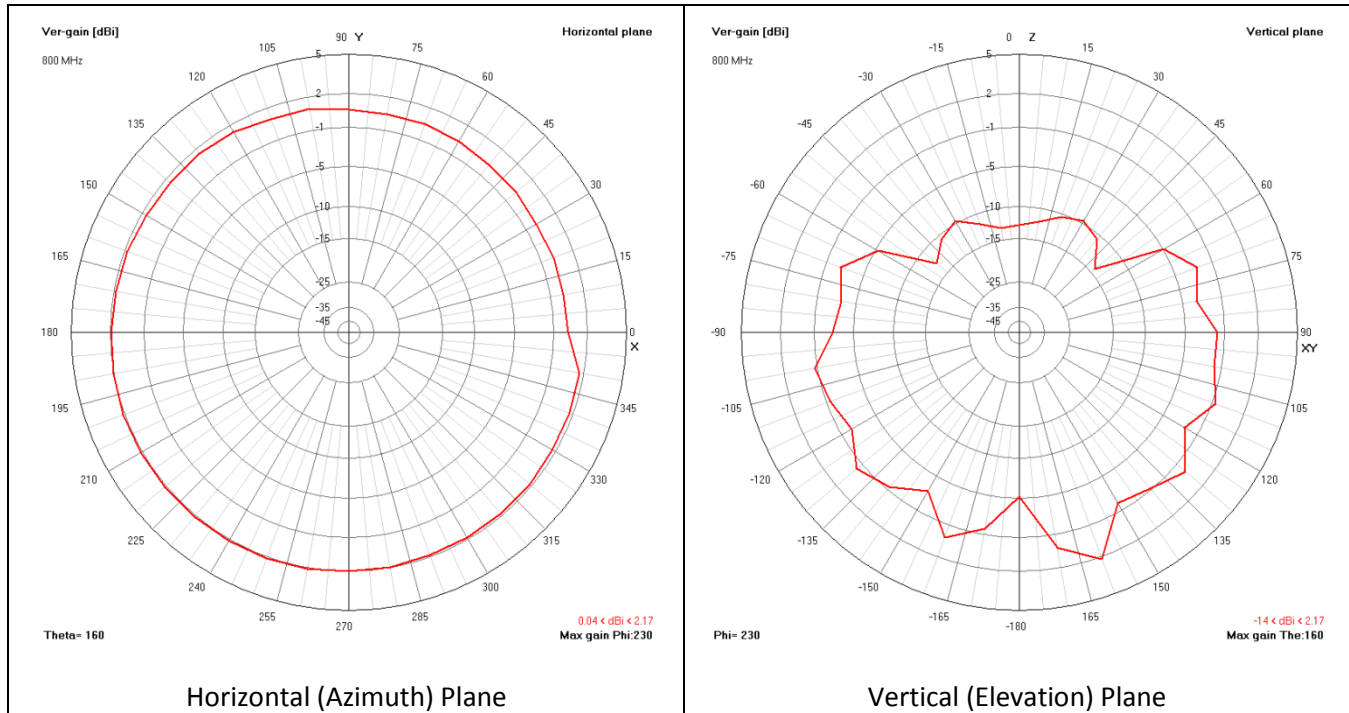
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## Radiation Patterns

800 MHz



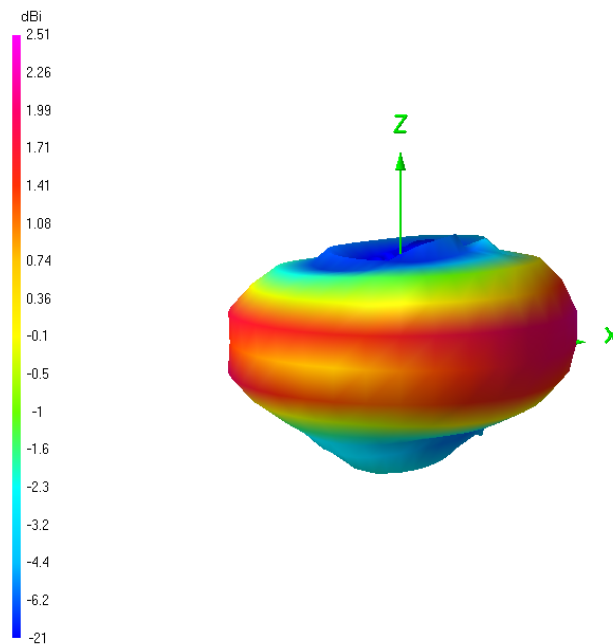
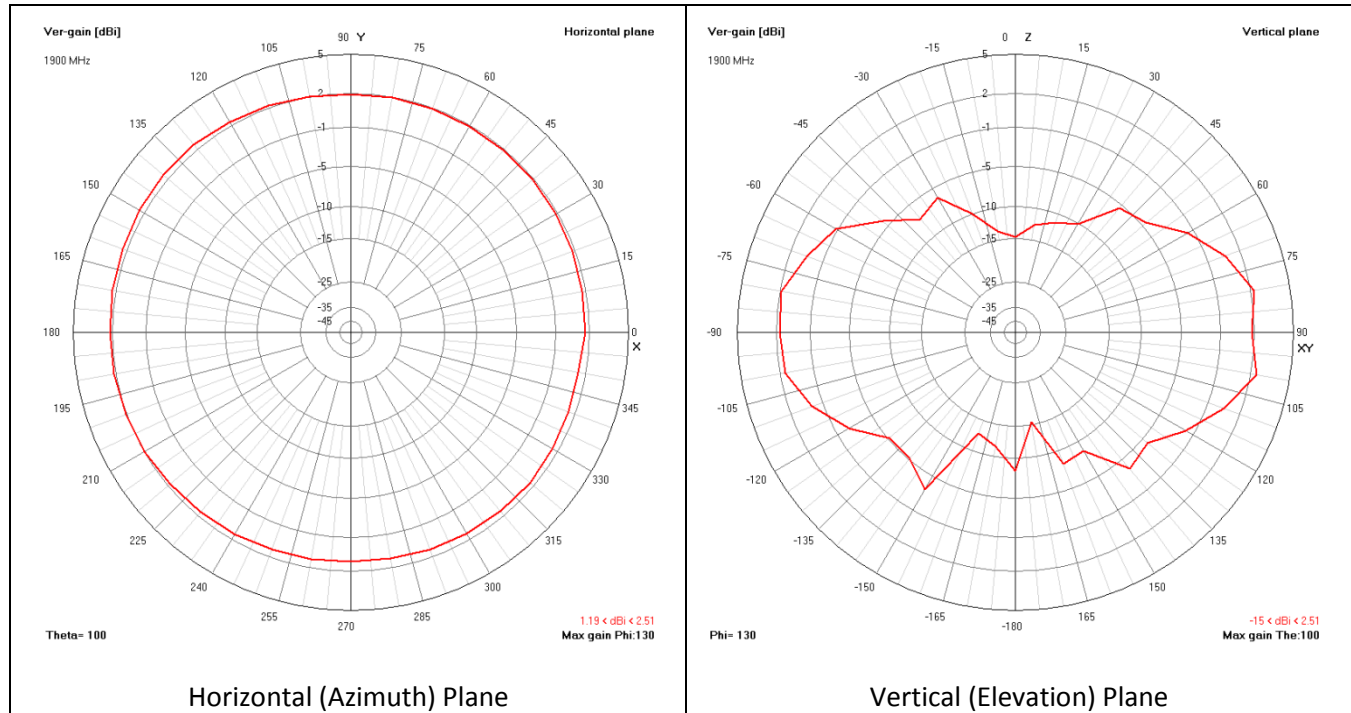
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## Radiation Patterns

1900 MHz



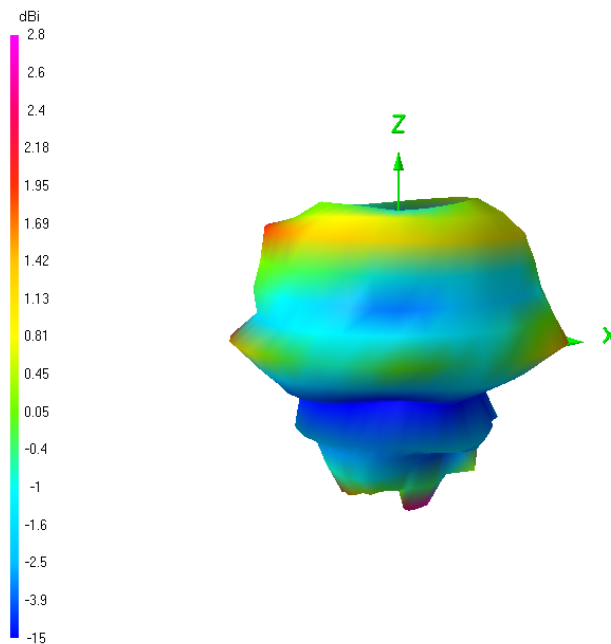
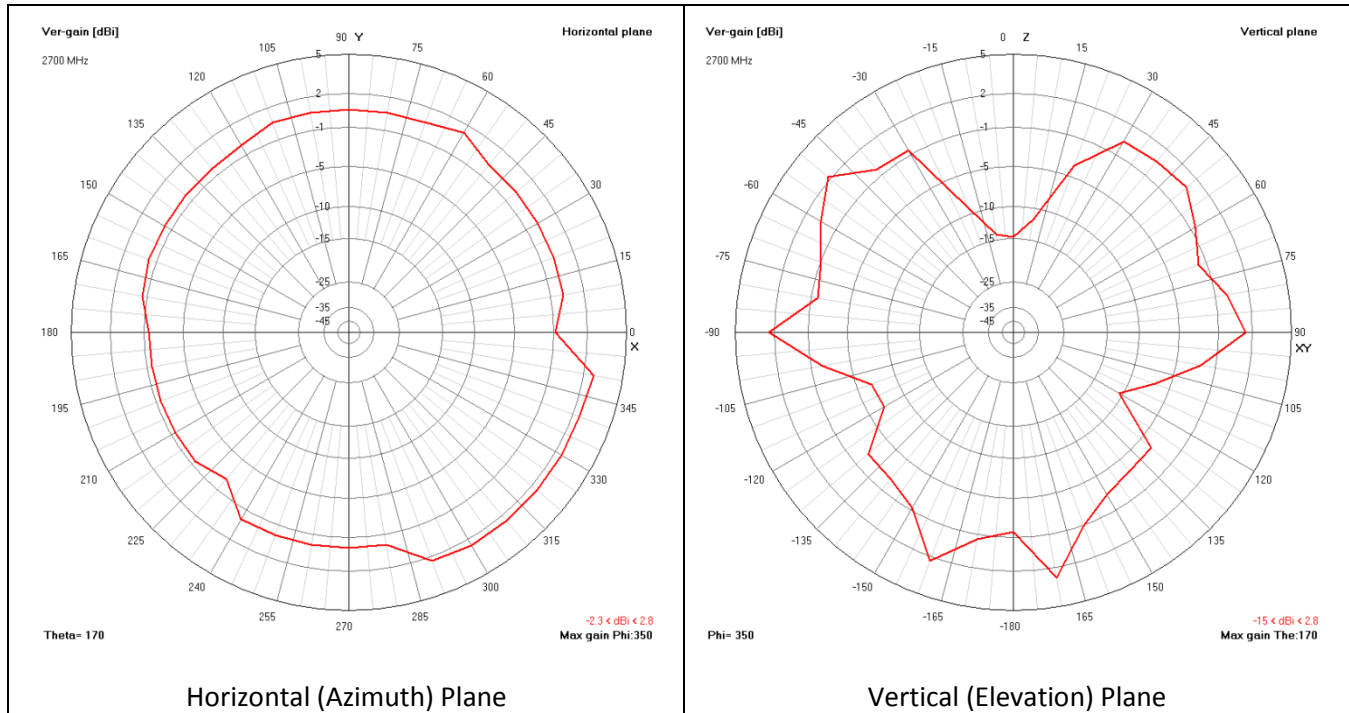
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## Radiation Patterns

2700 MHz



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### 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
- Fully tighten antenna connector to modem's antenna jack
- Rotate to find strongest signal
- Use 2 identical antennas if modem supports diversity or MIMO
- Not intended for permanent outdoor use unless weather sealed

### 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

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For technical questions and application information:

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

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