

ANT-128-001

11 dBi Fixed Mount 3G/4G/LTE Yagi Directional Antenna



Applications

- 3G / 4G / LTE Modems & Routers
- 2.4 GHz WiFi / WLAN Access Points
- 900 MHz Point-to-Point Radios
- Signal Boosters / Amplifiers
- Wireless Backhaul



Product Features

- 11 dBi Peak Gain
- Compatible with all 3G & 4G/LTE Networks
- Compatible with most Cellular Modems/Routers
- Very Low Return Loss (VSWR)
- Wide Beamwidth
- Weatherproof, Compact & Light-weight
- N Female Connector on 1 ft Low-Loss Coax
- Includes pole mounting hardware

Ordering Information

Part No.	Description
ANT-128-001	Proxicast 11 dBi Yagi Universal Fixed Mount Directional Antenna (700-2700 MHz)

General Description

Proxicast's universal wide-band Yagi antenna is compatible with all 3G and 4G/LTE/xLTE data services from Verizon Wireless, AT&T Wireless, Sprint, T-Mobile, US Cellular, Bell Mobility, Rogers Wireless, Telus, Sasktel, Telcel, Movistar, Digicel and many other operators. It can also be used with 2.4 GHz Wi-Fi access points as well as 900 MHz radio systems.

This small, light-weight, easy-to-install directional antenna improves transmit and receive signals across a wide frequency spectrum range and is ideal for many outdoor applications, including building rooftops, utility poles, surveillance trailers, well sites, remote telemetry units, meters, homes and offices.

With the appropriate adapter cable (not included), this antenna is compatible with USB cellular modems and Mi-Fi Hotspots, external 3G/4G cellular modems and routers from companies such as CalAmp, Cisco, Cradlepoint, MoFi, Digi, Pepwave, Proxicast, and Sierra Wireless. It is also compatible with most signal booster/amplifiers.

For MIMO applications mount 2 identical Yagi antennas at a 90 degree angle to each other.

All outdoor coax connections should be weather-proofed to minimize damage caused by moisture in the connectors or cabling. Use our Self-Bonding silicone tape (ANT-900-002) for fast and easy connection sealing.

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Electrical Specifications

Parameter	Rating
Frequency Range	700 - 2700 MHz includes all 2G, 3G, 4G, LTE Bands
Peak Gain	11 dBi
VSWR	≤1.5:1
Vertical Beamwidth	60° / 55°
Horizontal Beamwidth	90° / 70°
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	100 W
DC Grounded	Yes

Mechanical Specifications

Parameter	Rating
Connector Type	N Female (jack)
Cable Length	1 ft (300 mm) of LMR 195 low-loss coax
Mounting	Pole or Wall (2.0 in dia. U-bolts & bracket included)
Dimensions	11.4 x 7.9 x 4.7 in (290 x 200 x 120 mm) excluding 4.7 x 3 in (120 x 75 mm) bracket
Materials	Radome: UV stabilized ABS plastic Connector: Brass with Nickel plating Mounting Bracket: Aluminum U-Bolts: Galvanized Steel
Antenna Color	Ivory
Weight	28 oz (794 g) including mounting hardware
Operating Temperature	-40°C to +60°C
Max Wind Load	134 MPH (217 KIPH)

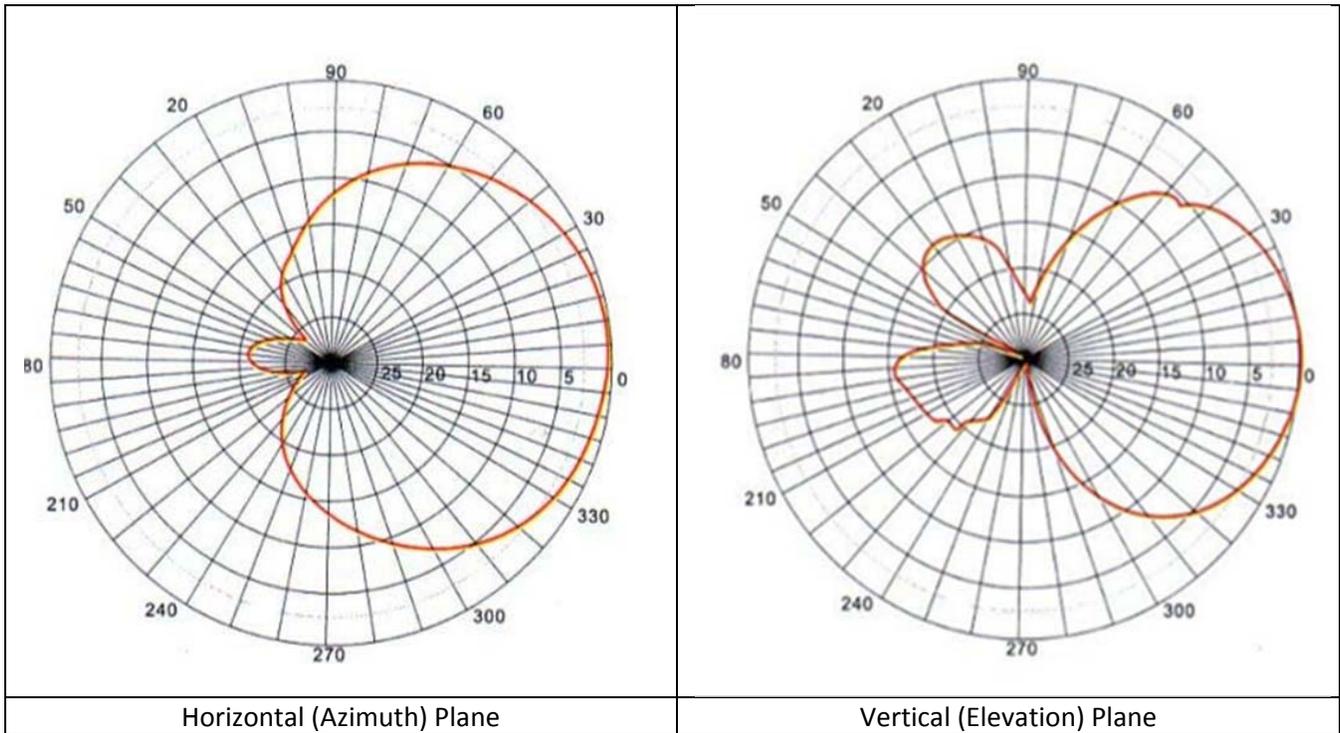
Operation of this device outside the parameter ranges given above may cause permanent damage.

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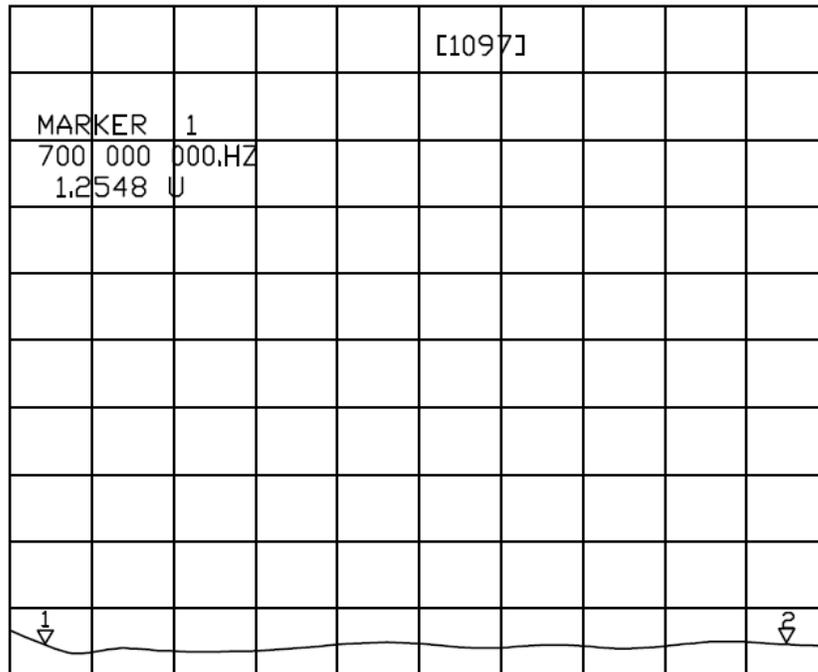


Radiation Patterns



VSWR

CH1 A/R SWR MKR 1: 1.2548 U
 REF 1.000 U 1.000U/ 700 000 000.HZ



CH1 START 600 000 000.HZ

STDP 2 800 000 000.HZ

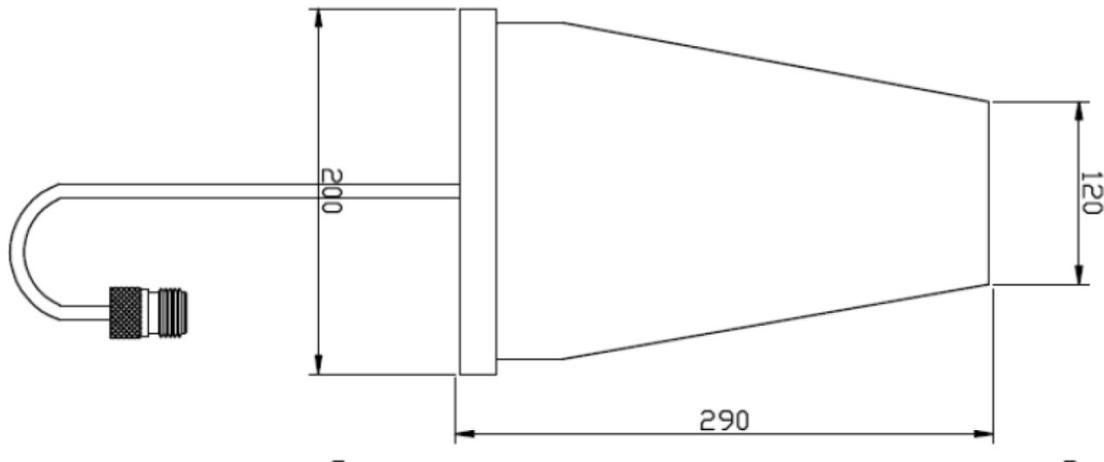
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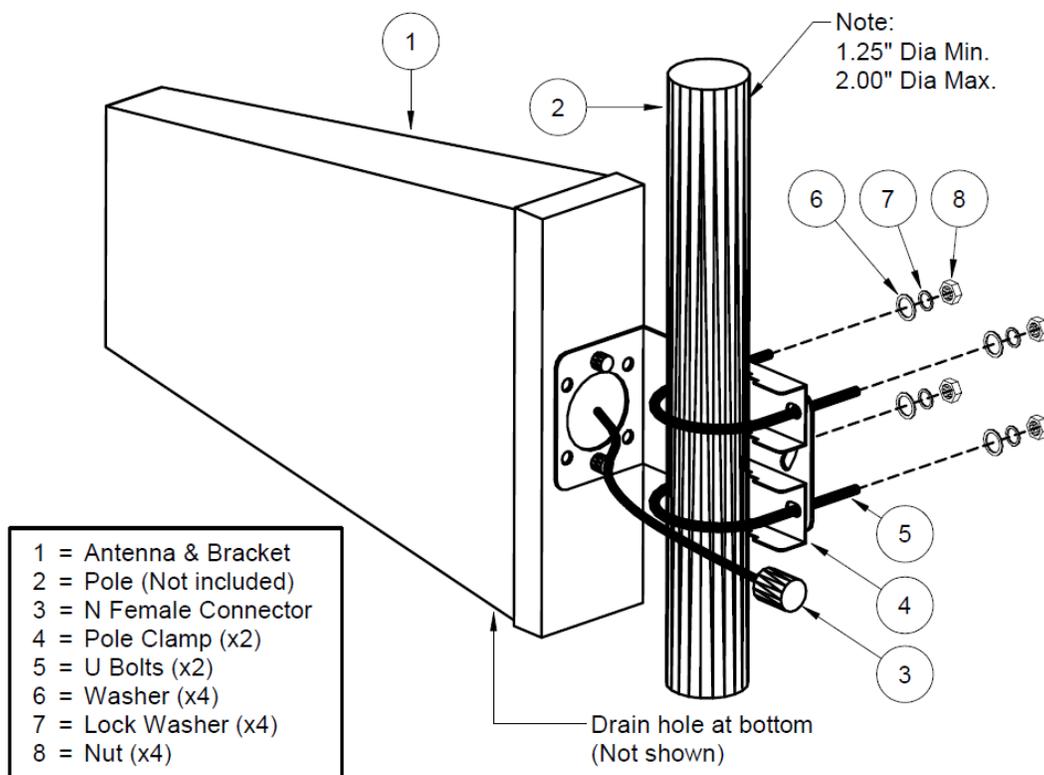


Mechanical Dimensions

Dimensions in millimeters



Assembly Instructions



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Installation Instructions

- Determine location of nearest cell tower for your carrier (see opensignal.org or cellreception.com)
- Orient antenna so drain holes point downward
- Mount antenna to 2.0 inch max diameter mast or to wall as high as possible
- Point antenna toward cell tower & away from:
 - other antennas
 - trees & buildings
 - large vertical metal or concrete objects
- Adjust antenna position left/right and up/down tilt to find optimal signal
- Keep coax lead cable as short as possible
- Weatherproof all outdoor coax connectors
- Observe local safety codes regarding lightning protection, grounding, and mast height

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

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For technical questions and application information:

Email: support@proxicast.com

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