



# PE51YA1003

# **Antennas Technical Data Sheet**

### Features

- 12in low-loss coax lead terminated with a N-Female connector
- 30° beam-width & DC Short lightning protection
- Light weight, UV-stable & UL flame rated radome

### **Applications**

- 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g & IEEE 802.11n Wireless LAN
- Directional and multipoint applications

- · Includes tilt and swivel mast mount
- Can be installed for either vertical or horizontal polarization
- Bluetooth® & public wireless hotspot
- WiFi & wireless video systems

### Description

The HyperGain PE51YA1003 Radome Enclosed Yagi WiFi Antenna features high gain and a 30° beam-width. It is ideally suited for directional and multipoint IEEE 802.11b, 802.11g and 802.11n wireless LANs, Bluetooth®, public wireless hotspot applications and other systems operating in the 2.4GHz ISM band. The unique design of this antenna allows it to be installed for either vertical or horizontal polarization.

This WiFi antenna is enclosed within a UV-stable, UL flame rated radome for all-weather operation. The PE51YA1003 antenna is supplied with a 60 degree tilt and swivel mast mount kit.

### Configuration

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Design	Yagi
Band Type	Single
Radiation Pattern	Directional
Polarization	Vertical or Horizontal
Cable Type	Coax Cable
Cable Length	12 in [304.8 mm]
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		14.5		dBi
Input Power			50	Watts

### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500					MHz
Gain	14.5					dBi
Horizontal Beam Width	30					Degees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.4 GHz 15 dBi Yagi Antenna PE51YA1003

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





### Antennas Technical Data Sheet **PE51YA1003** Vertical Beam Width 30 Degees 50 Watts Maximum Input Power **Mechanical Specifications** Radome Material Polymer Size **Overall Length** 18.2 in [462.28 mm] Width 3 in [76.2 mm] 3 in [76.2 mm] Height 1.25 to 2 in [31.75 to 50.80 mm] Mounting Mast Diameter 1 lbs [453.59 g] Weight Mechanical Specification Notes: Radome material is UV-inhibited Polymer. **Environmental Specifications** Temperature -20 to +60 deg C **Operating Range** 150 MPH [241.4 KPH] Wind Loading Compliance Certifications (see product page for current document) **Plotted and Other Data** Notes:

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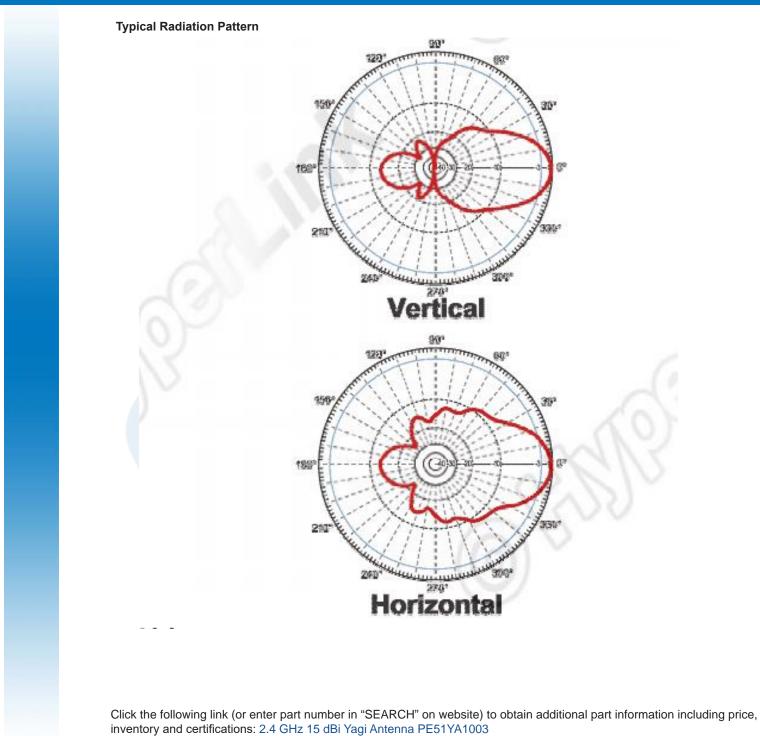
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2.4 GHz 15 dBi Yagi Antenna from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/single-antenna-14.5-dbi-gain-n-pe51ya1003-p.aspx

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# PE51YA1003 CAD Drawing

2.4 GHz 15 dBi Yagi Antenna

