



2.4 GHz 25 dBi Dual & X-Polarized/Dual Feed Parabolic Dish Antenna

Antennas Technical Data Sheet

PE51PD1006

Features

- Adjustable dual polarity feed horn system allows the antenna to be configured for Dual Polarization (horizontal and vertical) or for X-Polarization (+45° and -45°)
- Dual 12 inch antenna leads with terminated with N-Female connectors

- Includes tilt and swivel mast mount kit
- Optional radome cover kits available
- Perforated aluminum reflector dish helps reduce wind loading and features a UV stable light gray polymer finish

Applications

- 2.4 GHz ISM band
- IEEE 802.11b/g/n wireless LAN, WiFi systems
- Long range directional applications

- Point to point and point to multi-point applications
- Wireless bridges and backhaul applications

Description

The HyperLink PE51PD1006 is a high performance 22 dBi dual polarized parabolic dish antenna ideal for long range directional applications such as point to point systems, point to multi-point and wireless bridges. It is designed for use in the 2.4GHz ISM band as well as IEEE 802.11b/g/n wireless LAN systems.

The PE51PD1006 features an adjustable dual polarity feed horn system which allows the antenna to be configured for Dual Polarization (horizontal and vertical) or for X-Polarization (+45° and -45°). It is fed via two 12 inch N-Female antenna leads, one for each polarized signals. This feature makes it ideal for MIMO/802.11n and polarization diversity systems. For outdoor 802.11n or MIMO applications, two polarization diverse antennas are required for the radio to operate at its highest data rate. These features make this antenna ideal for MIMO systems.

The reflector dish of the PE51PD1006 is constructed from high quality aluminum which gives it superior strength. The dish is coated in a light gray UV-inhibited polymer for durability and aesthetics. The small diameter of the dish helps minimize wind loading. Supplied with the antenna is a tilt and swivel mast mount kit. This allows installation at various degrees of incline for easy alignment.

Configuration

Design	Reflector Dish
Band Type	Single
Radiation Pattern	Directional
Polarization	H/V or 45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance	50			Ohms
Gain	25			dBi
Front to Back Ratio	32			dB
Input Power			100	Watts

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 25 dBi Dual & X-Polarized/Dual Feed Parabolic Dish Antenna PE51PD1006](#)



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Electrical Specification Notes:

Polarization is adjustable - Dual Polarized (Vertical and Horizontal) or X-Polarized (+45degree and -45 degree Slant)

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500					MHz
Gain	25					dBi
Horizontal Beam Width	8.4					Degees
Vertical Beam Width	8.4					Degees
Maximum Input Power	100					Watts

Mechanical Specifications

Size

Overall Length

35.43 in [899.92 mm]

Width

35.43 in [899.92 mm]

Mounting Mast Diameter

1.57 to 2.36 in [39.88 to 59.94 mm]

Environmental Specifications

Wind Loading

130.5 MPH [210.02 KPH]

Compliance Certifications

(see [product page](#) for current document)

Plotted and Other Data

Notes:

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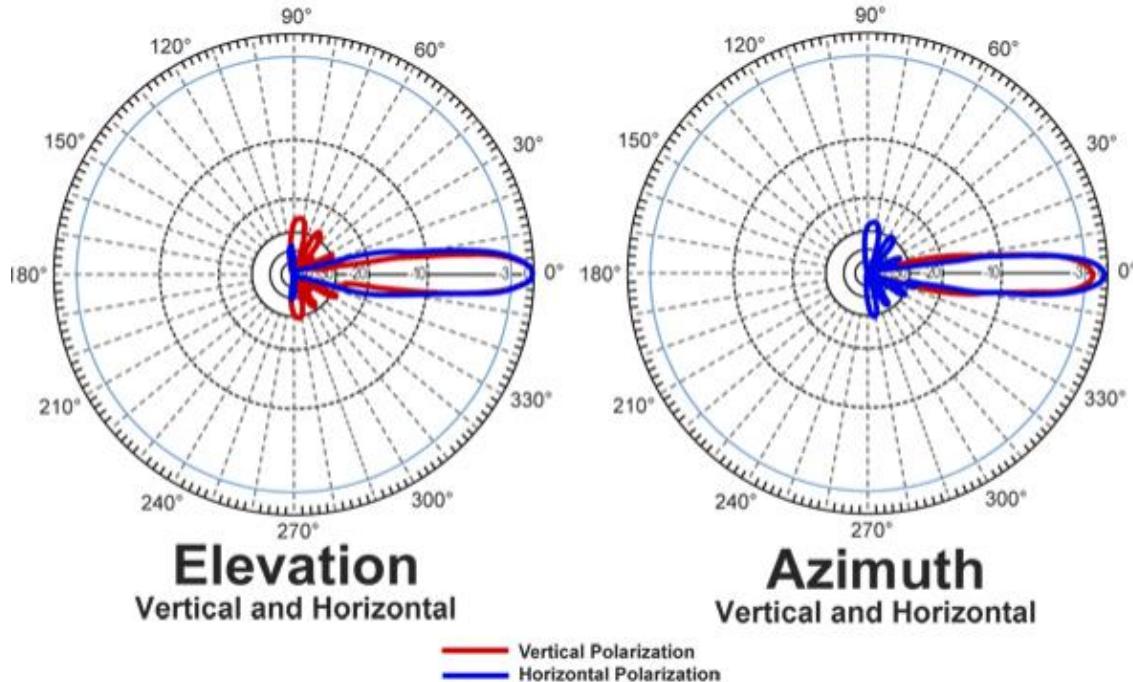


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Typical Radiation Pattern



2.4 GHz 25 dBi Dual & X-Polarized/Dual Feed Parabolic Dish 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-25-dbi-gain-n-pe51pd1006-p.aspx>

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PE51PD1006 CAD Drawing

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