

HyperLink Wireless 2.4 GHz 15.5 dBi Wireless LAN Planar Array Antenna

Model: HG2416P

Applications and Features

Applications:

- 2.4 GHz ISM Band
- IEEE 802.11b and 802.11g Wireless LAN
- Bluetooth®
- Public Wireless Hotspot
- WiFi
- Subscriber sites
- Micro-cell sites

Features:

- Superior performance
- Light weight
- Excellent front-to-back ratio
- Compact size
- Durable UV-stable, UL flame rated radome
- Low loss solid brass elements
- DC Short lightning protection
- Minimal wind loading
- Can be mounted for horizontal or vertical polarization
- Includes tilt and swivel mast mount
- Optional wall-mount available



Description

The HG2416P is a high gain planar array WiFi antenna designed specifically for IEEE 802.11b and 802.11g applications in the 2.4GHz ISM band. It offers superior performance in a compact and easy to install package. This antenna's innovative reflector system provides excellent front-to-back ratio, significantly reducing background noise and interference. This WiFi antenna is ideal for use at subscriber sites, and offers a cost-effective CPE (Customer Premise Equipment) solution. It is also suitable for small base station "micro-cell" sites.

Hyperlink's unique design offers a 30% lower profile than similar RF antennas from other vendors, offering a more compact alternative to Yagi or grid antennas for medium range point-to-point links.

The HG2416P antenna is supplied with a 60 degree tilt and swivel mast mount kit. Optional wall mounting brackets are available below.



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Specifications

Electrical Specifications

Frequency	2400-2500 MHz
Gain (dBi)	15.5 dBi
Polarization	Vertical or Horizontal
Polarization Isolation	>30 dBi
Sidelobe Suppression	>18 dBi
-3 dBi Beamwidth	25° Vertical : 25° Horizontal
-10 dBi Beamwidth	45° Vertical : 45° Horizontal
Front/Back Ratio	>30 dBi
Impedance	50 Ohms
VSWR	1.5:1
Lightning Protection	DC Short

Mechanical Specifications

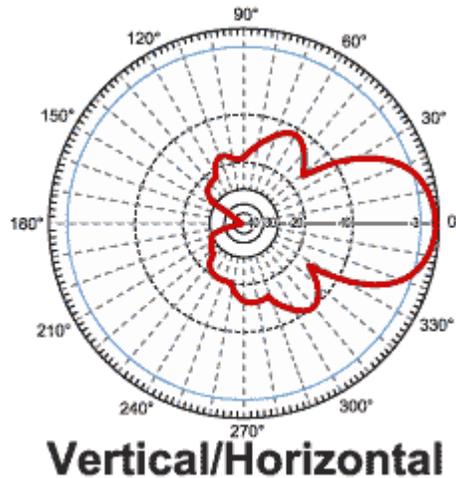
Output Connector	"N" type female
Mounting	1-1/4" (32 mm) to 2" (51 mm) dia. masts
Vertical Tilt	0-60°
Radome	UV-Inhibited ABS
Flame Rating	UL 94HB
Operating Temperature	-40° C to 85° C (-40° F to 185° F)
Reflector Type	Planar array
Reflector Material	Aluminum Alloy
Dimensions	10.75" x 10.75" x 2.12" (273 x 273 x 54 mm)
Weight - Antenna	2 lb (.91 kg)
Weight - Mount	< 0.5 lb (.23 kg)

Wind Loading Data

Wind Speed (MPH)	Loading (.82 sq. ft.)
40	5.8 lb. (2.63 kg)
60	12.8 lb. (5.81 kg)
80	22.5 lb. (10.21 kg)
100	35.5 lb. (16.10 kg)
120	51.7 lb. (23.45 kg)
140	70.1 lb. (31.80 kg)

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Antenna Gain Patterns



Mounting Options

	Description	Part Number
	Medium Plastic Tilt-and-Swivel Mounting Bracket for indoor wall mounting. Includes wall-mounting hardware.	HGX-PMT03
	Large Metal Tilt-and-Swivel Mounting Bracket for indoor and outdoor wall or mast mounting. Includes wall-mounting hardware. Can be mast-mounted using U-Bolt Kit (sold separately).	HGX-PMT04
	Ceiling/Wall Universal Antenna Mount can be used with HyperLink's 4.5" sq and 8.5" sq. patch antennas as well as N-Type bulkhead and TNC/BNC bulkhead omni directional antennas. Includes ceiling/wall mounting hardware.	HGX-UMOUNT02
	Universal Antenna Mount powder coated galvanized steel "DSS-style" arm for outdoor wall mounting. Requires a pair of 2 inch U-bolts (sold separately).	HGX-UMOUNT