



## 2.4 GHz 14 dBi 90 Degree Horizontally Polarized Sector Panel Wireless LAN Antenna

Model: HG2414HSP-090

### Applications and Features

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- Features:
- Superior performance
  - All weather operation
  - Horizontally Polarized
  - 20° Down-Tilt Mounting Bracket
  - Includes Mast Mounting Hardware
  - Integral N-Female Connector



### Description

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#### Superior Performance

The HyperGain® HG2414HSP-090 Horizontally Polarized Sector Panel WiFi Antenna combines high gain with a wide 90° beam-width. It is a professional quality "cell site" antenna designed primarily for service providers in the 2.4GHz ISM band. Applications include IEEE 802.11b and 802.11g wireless LAN systems.

Since this antenna is horizontally polarized, it is ideal for use in areas susceptible to the affects of interference generated by commonly used vertically polarized wireless LAN equipment. With the reduction of this interference better wireless reception can be achieved.

#### Rugged and Weatherproof

This WiFi antenna features a heavy-duty plastic radome for all-weather operation. The heavy-duty mounting system allows installation adjusts from 0 to 20 degrees downtilt.

#### Ideal for Wireless Internet "Cell" Sites

This is an ideal choice for Wireless Internet Provider "cell" sites since the cell size can be easily determined by adjusting the down-tilt angle. Horizontal coverage is a full 90 degrees.





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**Specifications**
**Electrical Specifications**

<b>Frequency</b>	2400 - 2500 MHz
<b>Gain</b>	14 dBi
<b>Polarization</b>	Horizontal
<b>Horizontal Beam Width</b>	90°
<b>Vertical Beam Width</b>	20°
<b>Impedance</b>	50 Ohm
<b>VSWR</b>	< 1.5:1 avg.
<b>Front to Back Ratio</b>	> 21 dB
<b>Max. Input Power</b>	300 Watts
<b>Lightning Protection</b>	DC Ground
<b>Connector</b>	Integral N-Female

**Mechanical Specifications**

<b>Weight</b>	4.4 lbs. (2 kg)
<b>Dimensions</b>	20 x 7 x 3.5 inch (500 x 180 x 90 mm)
<b>Radome Material</b>	UV-inhibited Plastic
<b>Mounting</b>	2 inch (50 mm) dia. mast max.
<b>Operating Temperature</b>	-40° C to to 85° C (-40° F to 185° F)
<b>Rated Wind</b>	>130 MPH (210 Km/h)

**RF Antenna Gain Patterns**
