

HyperLink Wireless Brand 2.4 GHz 14 dBi 90 Degree Dual Polarized/Dual Feed Sector Panel Antenna - Model: HG2414DP-090

Applications

- 2.4 GHz ISM band
- IEEE 802.11b/g/n Wireless LAN
- MIMO applications
- Wireless Internet Provider "Cell" sites
- Public wireless hotspot

Features

- Vertical and horizontal polarization
- Dual polarity feed system - (2) N-Female connectors
- All weather operation
- 10° down-tilt mast mounting bracket and hardware
- Includes mast mounting hardware



Description

The Hyperlink HG2414DP-090 Dual 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/g/n and MIMO wireless LAN systems.

Dual Polarized Design

This antenna features a unique vertical array of cross dipole elements. The antenna is fed via two N-Female ports, one for vertically polarized and one for horizontally polarized signals. 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.



Rugged and Weatherproof

This dual-band sector antenna features a heavy-duty fiberglass radome for all-weather operation. The heavy-duty mounting system allows installation adjusts from 0 to 10 degrees down tilt.

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.

Specifications

Electrical Specifications

Frequency Range	2400 - 2500 MHz
Gain	14 dBi
Polarization	Vertical and Horizontal
Horizontal Polarization H Plane	75°
Vertical Polarization H Plane	90°
Horizontal Polarization E Plane	16°
Vertical Polarization E Plane	16°
Impedance	50 Ohm
VSWR	≤ 1.5:1 avg.
Front to Back Ratio	≥ 23 dB
Isolation Between Ports	≥ 28 dB
Max. Input Power	200 Watts

Mechanical Specifications

Connectors	(2) Integral N-Female
Weight	4.4 lbs. (2 kg)
Dimensions	18.3 x 6.3 x 2.3 in (465 x 160 x 60 mm)
Radome Material	UV-inhibited fiberglass
Mounting	1.5" (40 mm) to 2" (53 mm) dia. mast max.
Operating Temperature	-40° C to 60° C (-40° F to 140° F)
Rated Wind	>130 MPH (210 Km/h)
RoHS Compliant	Yes

Wind Loading Data

Wind Speed (MPH)	Loading
100	34 lb.
125	54 lb.

Antenna Patterns

