

HyperLink Wireless 2.4/4.9-5.8 GHz 14 dBi 90° Dual-Feed Sector Antenna Model: HG2458-14P-090

Applications

- 802.11a, 802.11b, 802.11g 802.11n and 802.11ac access points and routers
- WiMAX Technology
- WiFi Systems
- Homeland Security and Public Safety Services: Fire, Police, Security
- Wireless Internet Provider "cell" sites

Features

- Dual band: 2.4 GHz and 4.9 GHz to 5.9 GHz
- Dual feed via (2) Integral N-Female Connectors
- 10° down-tilt mast mounting bracket and hardware
- Includes mast mounting hardware
- All weather operation



Description

The HyperLink HG2458-14P-090 is a high performance dual-band sector panel antenna, which combines high gain with a 90° beam-width. Its dual-band design makes it suitable for applications in the 2.4GHz (2400-2500 MHz) and 5 GHz (4900-5900 MHz) band which and eliminates the need to purchase different antennas for each frequency. This simplifies installations since the same antenna can be used for a wide array of wireless applications. This antenna is ideal for use with the following applications:

- ◇ 2.4 GHz 802.11a, 802.11b, 802.11g and 802.11n
- ◇ 4.9 GHz homeland security band
- ◇ 5.3 GHz, 5.4 GHz and 5.8 GHz 802.11a
- ◇ 5.8 GHz ISM, UNII and Mesh Networks

The HG2458-14P-090 is actually two antennas in one. A 2.4 GHz antenna and a 4.9 GHz to 5.9 GHz antenna integrated into a single enclosure. Each internal antenna is fed via its own individual connector.



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.

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 / 4900 - 5900 MHz
Gain	14 dBi
Polarization	Vertical
Horizontal Beam Width	90°
Vertical Beam Width	16° (2400-2500 MHz) / 8° (4900-5900 MHz)
Impedance	50 Ohm
VSWR	≤ 1.5:1 avg.
Front to Back Ratio	≥ 21 dB
Max. Input Power	50 Watts
Lightning Protection	DC Ground

Mechanical Specifications

Connectors	(2) Integral N-Female
Weight	4.4 lbs. (2 kg)
Dimensions	24 x 6.3 x 2.3 in (610 x 160 x 60 mm)
Radome Material	UV-inhibited Fiberglass
Mounting	1.5 – 2 in (40 – 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

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Wind Loading Data

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

RF Antenna Patterns

