

## 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**

|                              |  |
|------------------------------|--|
| <b>Frequency Range</b>       | 2400 - 2500 MHz / 4900 - 5900 MHz        |
| <b>Gain</b>                  | 14 dBi                                   |
| <b>Polarization</b>          | Vertical                                 |
| <b>Horizontal Beam Width</b> | 90°                                      |
| <b>Vertical Beam Width</b>   | 16° (2400-2500 MHz) / 8° (4900-5900 MHz) |
| <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>      | 50 Watts                                 |
| <b>Lightning Protection</b>  | DC Ground                                |

**Mechanical Specifications**

|                              |  |
|------------------------------|--|
| <b>Connectors</b>            | (2) Integral N-Female                  |
| <b>Weight</b>                | 4.4 lbs. (2 kg)                        |
| <b>Dimensions</b>            | 24 x 6.3 x 2.3 in (610 x 160 x 60 mm)  |
| <b>Radome Material</b>       | UV-inhibited Fiberglass                |
| <b>Mounting</b>              | 1.5 – 2 in (40 – 53 mm) dia. mast max. |
| <b>Operating Temperature</b> | -40° C to 60° C (-40° F to 140° F)     |
| <b>Rated Wind</b>            | >130 MPH (210 Km/h)                    |
| <b>RoHS Compliant</b>        | Yes                                    |

**Wind Loading Data**

| <b>Wind Speed (MPH)</b> | <b>Loading</b> |
|-------------------------|----------------|
| 100                     | 34 lb.         |
| 125                     | 54 lb.         |

**RF Antenna Patterns**

