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
- 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>2400 - 2500 MHz / 4900 - 5900 MHz</td>
</tr>
<tr>
<td>Gain</td>
<td>14 dBi</td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical</td>
</tr>
<tr>
<td>Horizontal Beam Width</td>
<td>90°</td>
</tr>
<tr>
<td>Vertical Beam Width</td>
<td>16° (2400-2500 MHz) / 8° (4900-5900 MHz)</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ohm</td>
</tr>
<tr>
<td>VSWR</td>
<td>≤ 1.5:1 avg.</td>
</tr>
<tr>
<td>Front to Back Ratio</td>
<td>≥ 21 dB</td>
</tr>
<tr>
<td>Max. Input Power</td>
<td>50 Watts</td>
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<tr>
<td>Lightning Protection</td>
<td>DC Ground</td>
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### Mechanical Specifications

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

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<th>Wind Speed (MPH)</th>
<th>Loading</th>
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<tr>
<td>100</td>
<td>34 lb.</td>
</tr>
<tr>
<td>125</td>
<td>54 lb.</td>
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