HyperLink Wireless Low PIM Rated Cross Polarized DAS In-Building Panel Antenna
Model: HG72708XWPP-NF

Applications

- DAS (Distributed Antenna Systems)
- 700 MHz and cellular applications
- AWS (Advanced wireless services) and PCS (Personal communications service) band applications
- In-building wireless networks and LTE networks
- IEEE 802.11b/g applications

Features

- Frequency coverage for 700 MHz, 850 MHz, AWS and PCS bands
- Low Passive InterModulation (PIM) rated
- Dual cross polarized (X-Pol) in one antenna
- Easily mounts to wall with included hardware and bracket
- Dual polarity feed system - (2) N-Female connectors

Description

The HyperLink HG72708XWPPR-NF is a low PIM rated, high performance directional wall mount MIMO panel antenna specifically designed for in-building wireless networks such as DAS (Distributed Antenna Systems) which are used to distribute Cellular and WiFi signals throughout a building or area. The Multi-Band design of this antenna 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 in-building wireless applications where wide coverage is desired.

Cross Polarized

The HG72708XWPPR-NF features two independent antennas with cross polarization. This feature doubles the wireless capacity over the same channels. The antenna is fed via two plenum rated antenna leads terminated with N-Female connectors. One for +45° polarized and one for -45° polarized signals. This feature makes these antennas ideal for polarization diversity systems.

Low PIM Rated

The key to providing the best performance in a DAS application is to ensure the components used are low PIM rated. This helps meet the increasing demand for higher data rates and the ability to provide streaming video for mobile devices. With a low PIM rating of <-150 dBc, the HG72705CU-PR helps meets the most demanding PIM requirements for LTE/4G bands.
The HG72708XWPPR-NG is designed specifically for in-building operation and is ideal for use in large open areas such as indoor courtyards, indoor sporting venues, convention centers and shopping malls. The included mounting bracket and hardware makes this antenna very easy to install.

**Specifications**

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Range</strong></td>
<td>698-960 MHz</td>
<td>1710-2700 MHz</td>
</tr>
<tr>
<td><strong>Gain</strong></td>
<td>7.5 dBi</td>
<td>8.4 dBi</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>±45</td>
<td></td>
</tr>
<tr>
<td><strong>Horizontal Beamwidth (-3dB)</strong></td>
<td>70°</td>
<td>75°</td>
</tr>
<tr>
<td><strong>Vertical Beam Width(-3dB)</strong></td>
<td>75°</td>
<td>60°</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>50 Ohm</td>
<td></td>
</tr>
<tr>
<td><strong>Max. Input Power</strong></td>
<td>50 Watts</td>
<td></td>
</tr>
<tr>
<td><strong>F/B Ratio</strong></td>
<td>15 dB</td>
<td>20 dB</td>
</tr>
<tr>
<td><strong>Isolation</strong></td>
<td>20 dB</td>
<td></td>
</tr>
<tr>
<td><strong>VSWR</strong></td>
<td>&lt; 1.8</td>
<td>&lt; 1.7</td>
</tr>
<tr>
<td><strong>PIM, 3rd Order, 2 x 2 W</strong></td>
<td>&lt; -150 dBC</td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Connector</strong></td>
<td>(2) N-Female</td>
</tr>
<tr>
<td><strong>Cable Length</strong></td>
<td>14 in. (35.6 cm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>3.08 lbs. (1.4 Kg)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>11.8 x 8.2 x 3.0 in. (300 x 209 x 77 mm)</td>
</tr>
<tr>
<td><strong>Radome Material</strong></td>
<td>UV Resistant ABS</td>
</tr>
<tr>
<td><strong>Radome Color</strong></td>
<td>White</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-40°C to +60°C (-40°F to 140°F)</td>
</tr>
<tr>
<td><strong>RoHS Compliant</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>
RF Antenna Patterns - +45°
RF Antenna Patterns - -45°

- Frequency: 800 MHz
- Date: 2015-11-10
- Elevation: V-plane
- Polarization: Main
- Peak Gain: 2.05 dBi
- HPBW: 26.37°
- FIFR: 12.42 dB
- Cross Polar: -15.6°

- Frequency: 922 MHz
- Date: 2015-11-10
- Elevation: V-plane
- Polarization: Main
- Peak Gain: 2.05 dBi
- HPBW: 26.37°
- FIFR: 12.42 dB
- Cross Polar: -15.6°

- Frequency: 927 MHz
- Date: 2015-11-10
- Elevation: V-plane
- Polarization: Main
- Peak Gain: 2.05 dBi
- HPBW: 26.37°
- FIFR: 12.42 dB
- Cross Polar: -15.6°

- Frequency: 930 MHz
- Date: 2015-11-10
- Elevation: V-plane
- Polarization: Main
- Peak Gain: 2.05 dBi
- HPBW: 26.37°
- FIFR: 12.42 dB
- Cross Polar: -15.6°