

HyperLink Wireless 5.1-5.8 GHz 16 dBi Cross Polarized 90° Sector Antenna Model: HG5158-16XP-090

Applications

- 5.1/5.3/5.4/5.8 GHz Wireless LAN systems
- IEEE 802.11a/n applications
- MIMO applications
- WiMAX, WISP, WiFi, mobile communication and cell-sites
- Dual Diversity / Dual Antenna Radios

Features

- Independent cross polarized (X-Pol) antennas within one enclosure
- Dual polarity feed system (2) N-Female connectors
- All weather operation
- Heavy duty steel mounting bracket with easy elevation and tilt adjustment



Description

The Hyperlink HG5158-16XP-090 antenna is designed with two independent cross polarized internal antennas fed via (2) connectors. The HG5158-16XP-090 provides high gain with a wide 90° beam-width making them ideal professional quality "cell site" antennas designed primarily for service providers in the 5.8 GHz ISM band. Applications include IEEE 802.11a and 802.11n wireless LAN systems. This model is also ideal for use with wireless access points, CPEs and routers that have dual antenna ports and MIMO capabilities.

Cross Polarized – X-Pol

The HG5158-16XP-090 features two independent antennas that are cross polarization. This feature doubles the wireless capacity over the same channels. Each antenna is fed via two N-Female ports, once for +45° polarized and one for -45° polarized signals. This feature makes this antenna ideal for polarization diversity systems.



Rugged and Weatherproof

This antenna's construction features a UV resistant PVC radome for durability and aesthetics. Its mounting system features a heavy-duty up/down tilt mounting bracket. This allows installation at various degrees of incline for easy alignment.



Specifications

Electrical Specifications

| Frequency | 5150-5850 MHz |
|------------------------|---------------|
| Gain | 16 dBi |
| Horizontal Beam Width | 90° |
| Vertical Beam Width | 7° |
| Polarization | ±45° |
| Impedance | 50 Ohm |
| Front to Back Ratio | > 23 dB |
| Port to Port Isolation | > 21 dB |
| Max. Input Power | 50 Watts |
| VSWR | < 1.8:1 avg. |
| Lightning Protection | DC Ground |

Mechanical Specifications

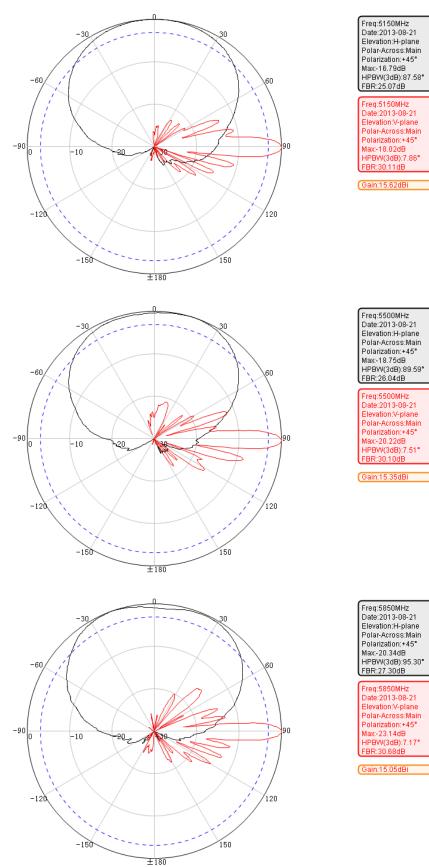
| Connectors | (2) N-Female |
|----------------------------|---|
| Weight (Including Bracket) | 2.2 lbs. (2.2kg) |
| Dimensions | 18.5 x 4.5 x 2.5 in (470 x 115 x 65 mm) |
| Radome Material | UV-Resistant PVC |
| Radome Color | White |
| Mounting Mast Size (Dia.) | 1.2-2.0 in. (30-50mm) |
| Operating Temperature | -40° C to 60° C (-40° F to 140° F) |
| Rated Wind Velocity | 210Km/h |
| RoHS Compliant | Yes |

Wind Loading Data

| Wind Speed (MPH) | Loading – Front | Loading – Side |
|------------------|-----------------|----------------|
| 100 | 30 lbs | 16 lbs |
| 125 | 46 lbs | 26 lbs |



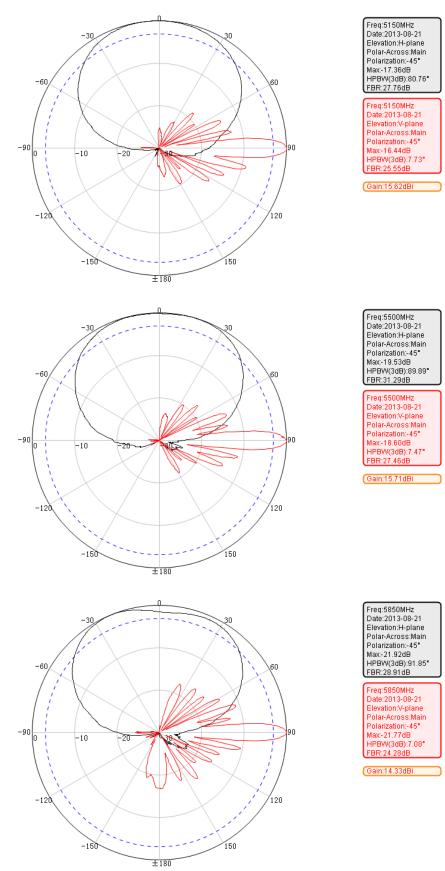
Antenna Patterns +45°



L-com, Inc. 50 High St., West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 www.L-com.com E-mail: sales@L-com.com Phone: 1-800-343-1455 Fax: 1-978-689-9484 © L-com, Inc. All Rights Reserved. L-com Global Connectivity and the L-com logo are registered marks.



Antenna Patterns -45°



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