

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°



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Antenna Patterns -45°



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