

# HyperLink Wireless Low PIM 380-6000 MHz Omni-Directional Ceiling Antenna Model: HG35805CUPR-NF

## Applications

- Public Safety DAS (Distributed Antenna Systems)
- 700 MHz and cellular applications
- TETRA compliant 2-way radio applications
- In-building wireless networks and LTE networks
- IEEE 802.11a/b/g/n and 802.11ac applications

#### **Features**

- Multi-band frequency coverage from a single antenna - 380 MHz to 6000 MHz
- Full WiFi coverage from 2.4 GHz to 5 GHz as well as UHF frequency band coverage
- Low Passive Inter-Modulation (PIM) rated
- IP67 rated, UV resistant radome
- Compliant with in-building International Fire Code (IFC) & National Fire Protection Association (NFPA) regulations



#### Description

The HyperLink HG35805CUPR-NF is a multi-band low PIM omni-directional ceiling mount antenna specifically designed for in-building wireless networks. With coverage from 380 MHz to 6000 MHz, the HG35805CUPR-NF is ideal for Standard and Public Safety DAS (Distributed Antenna Systems) which are used to distribute Cellular and WiFi signals throughout a building or area. In additional to providing coverage for WiFi and LTE networks, the HG35805CUPR-NF also provides coverage for TETRA and UHF wireless systems. 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.

#### **Complete WiFi Coverage**

The HG35805CUPR-NF is designed to provide complete WiFi coverage from 2400 MHz to 6000 MHz and is compatible with IEEE 802.11a/b/g/n and 802.11ac networks. This adds an additional level of wireless coverage rather than using just the 2.4 GHz 802.11b/g bands. In addition, this antenna can operate in the 4.9 GHz band which is typically used with public safety services such as police and first responders. This along with the HG35805CUPR-NF coverage of the cellular/LTE bands makes this antenna ideal for in-building DAS applications.

#### Low Band Coverage

With operational coverage down to 380 MHz, the HG35805CUPR-NF can provide support for UHF, 600 MHz, 1390-1432 MHz and AWS-3 bands in addition to providing WiFi and LTE coverage all from a single antenna.





#### 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 HG75805CU-PR helps meets the most demanding PIM requirements for LTE/4G bands.

The aesthetically pleasing design of this antenna makes it ideal for use in almost any indoor environment. It can be easily mounted through a single 1.0 inch hole in a solid or suspended ceiling up to 1.2 inches thick. This antenna features a 12 inch coax lead terminated with an N-Female connector. Special order connectors are also available.



#### **Mounting Details**



L-com, Inc. 50 High St., West Mill, 3<sup>rd</sup> 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.

# Specifications

## **Electrical Specifications**

380-520 MHz
698-960 MHz
1710-2700 MHz
3300-3700 MHz
4900-6000 MHz
2.0-2.5 dBi @ 380-520 MHz
2.3-3.1 dBi @ 698-760 MHz
2.8-3.2 dBi @ 760-960 MHz
4.0-4.7 dBi @ 1710-2700 MHz
3.5-5.0 dBi @ 2200-2700 MHz
4.4-5.2 dBi @ 3300-3700 MHz
5.4-6.4 dBi @ 4900-6000 MHz
Vertical
360°
50 Ohm
50 Watts
< 1.6 @ 380-520 MHz
< 1.9 @ 698-960 MHz
< 2.0 @ 1710-2700 MHz
< 1.6 @ 3300-3700 MHz
< 1.8 @ 4900-6000 MHz
<-150 dBc

#### **Mechanical Specifications**

Cable Length	12 in. (305 mm) – Blue RG402 Series
Connector	N-Female
Weight	0.9 lbs. (1.9 Kg)
Dimensions	11.5 Dia. x 5.2 in. (293 Dia. x 133 mm)
Radome Material	UV Resistant ABS
Radome Color	White
Operating Temperature	-40° C to +60° C (-40° F to 140° F)
Mounting	1.0 in. (25.4 mm) diameter hole
IP Rating	IP67
RoHS Compliant	Yes



#### **RF Antenna Patterns**



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