

## HyperLink Wireless 698-960/1710-2700 MHz Low PIM Rated DAS Ceiling Antenna Model: HG72705CUPR-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 Inter-Modulation (PIM) rated
- Attractive unobtrusive radome design
- Easily mounts to ceiling tiles
- 15.7 inch coax lead with N-Female connector



### Description

The HyperLink HG72705CUPR-NF is a low PIM rated, high performance ceiling mount 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.

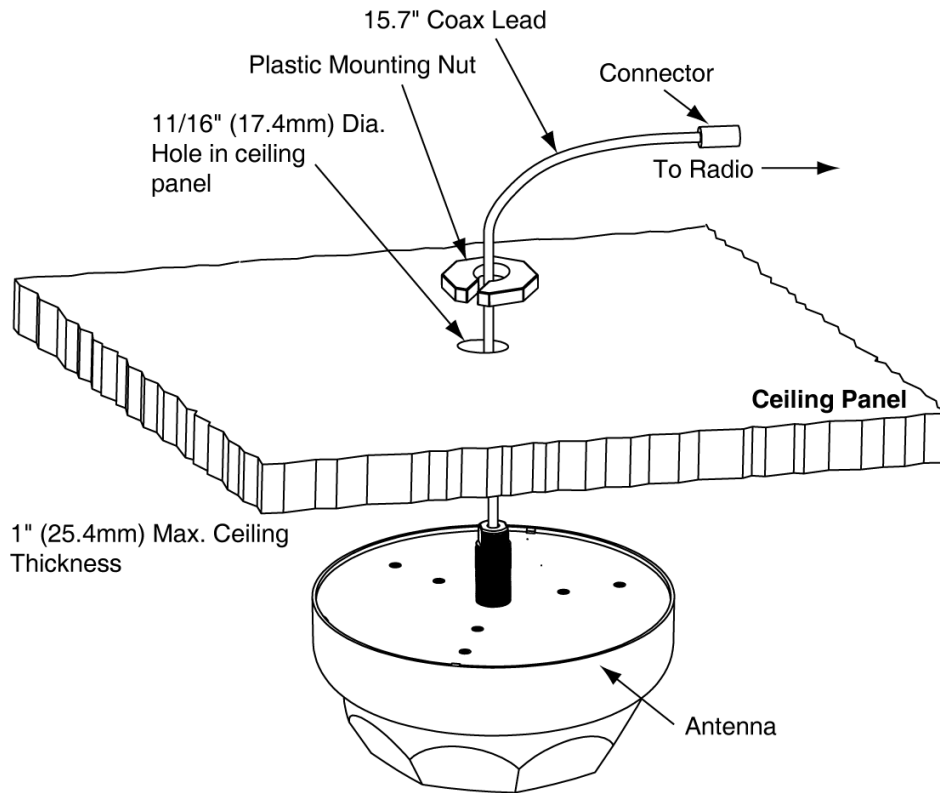
The aesthetically pleasing design of this antenna makes it ideal for use in almost any indoor environment. It can be easily mounted through a single 11/16" hole in a solid or suspended ceiling up to 1" thick. This antenna features a 15.7 inch coax lead terminated with an N-Female connector. Special order connectors are also available.

### 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.



**Mounting Details**



**Specifications**

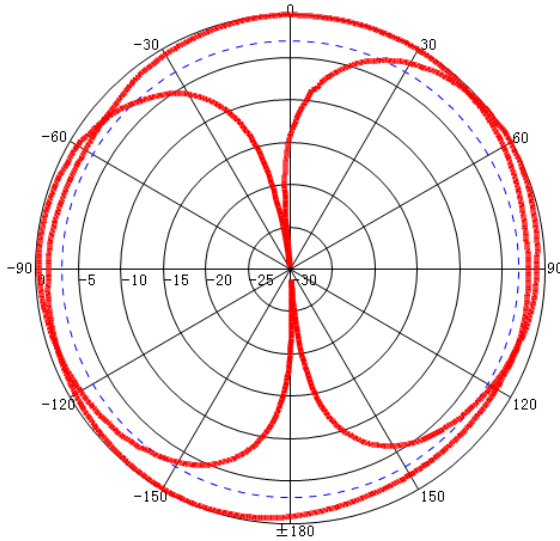
**Electrical Specifications**

<b>Frequency Range</b>	698-960 MHz	1710-2700 MHz
<b>Gain</b>	2 dBi	5 dBi
<b>Polarization</b>	Vertical	
<b>Horizontal Beamwidth</b>	360°	
<b>Vertical Beam Width</b>	80°	50°
<b>Impedance</b>	50 Ohm	
<b>Max. Input Power</b>	50 Watts	
<b>VSWR</b>	< 1.8	< 1.5
<b>PIM, 3rd Order, 2 x 2 W</b>	<-150 dBc	

**Mechanical Specifications**

<b>Cable Length</b>	15.7 in. (40 cm)
<b>Weight</b>	0.77 lbs. (.35 Kg)
<b>Dimensions</b>	7.2 Dia. x 3.4 in. (184 Dia. x 85 mm)
<b>Radome Material</b>	UV Resistant ABS
<b>Radome Color</b>	White
<b>Operating Temperature</b>	-55° C to +85° C (-67° F to 185° F)
<b>Mounting</b>	.687" (17.4 mm) diameter hole
<b>RoHS Compliant</b>	Yes

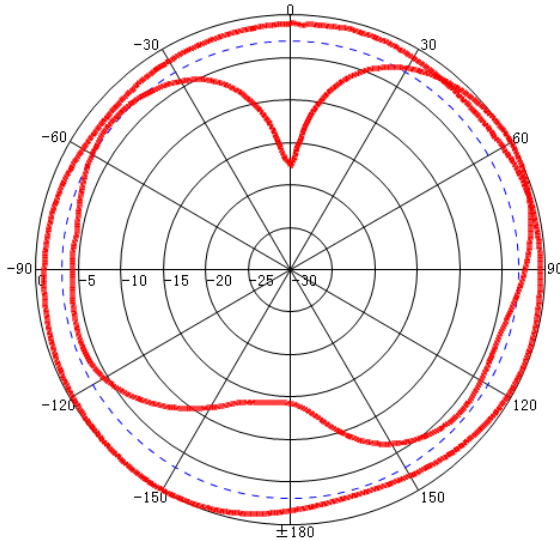
**Antenna Gain Patterns**



Freq:698MHz  
Date:2015-04-13  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-12.86dB  
HPBW(3dB):360.00°  
FBR:0.09dB  
Circularity:1.12

Freq:698MHz  
Date:2015-04-13  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-12.82dB  
HPBW(3dB):101.45°  
FBR:0.35dB  
Circularity:27.19  
Obliquity:18.83°

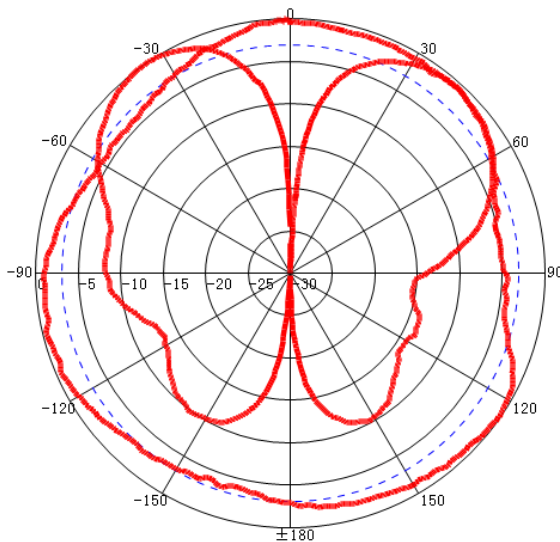
Gain:2.63dBi



Freq:960MHz  
Date:2015-04-13  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-17.22dB  
HPBW(3dB):360.00°  
FBR:0.03dB  
Circularity:1.33

Freq:960MHz  
Date:2015-04-13  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-17.38dB  
HPBW(3dB):67.22°  
FBR:3.03dB  
Circularity:10.80  
Obliquity:5.84°

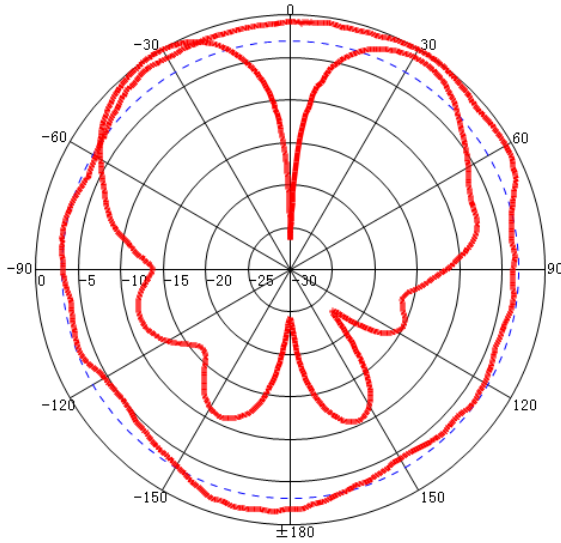
Gain:3.24dBi



Freq:1710MHz  
Date:2015-04-13  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-47.82dB  
HPBW(3dB):92.95°  
FBR:1.14dB  
Circularity:3.20

Freq:1710MHz  
Date:2015-04-13  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-37.79dB  
HPBW(3dB):39.64°  
FBR:3.89dB  
Circularity:31.29  
Obliquity:125.19°

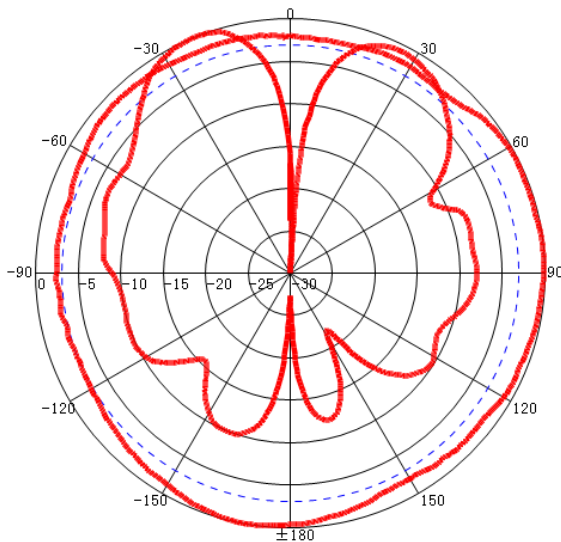
Gain:4.95dBi



Freq:2200MHz  
 Date:2015-04-13  
 Elevation:H-plane  
 Polar-Across:Main  
 Polarization:Vertical  
 Max:-35.04dB  
 HPBW(3dB):128.90°  
 FBR:1.36dB  
 Circularity:2.66

Freq:2200MHz  
 Date:2015-04-13  
 Elevation:V-plane  
 Polar-Across:Main  
 Polarization:Vertical  
 Max:-25.80dB  
 HPBW(3dB):39.91°  
 FBR:4.27dB  
 Circularity:15.36  
 Obliquity:122.80°

Gain:5.59dBi



Freq:2700MHz  
 Date:2015-04-13  
 Elevation:H-plane  
 Polar-Across:Main  
 Polarization:Vertical  
 Max:-35.53dB  
 HPBW(3dB):230.10°  
 FBR:0.00dB  
 Circularity:1.55

Freq:2700MHz  
 Date:2015-04-13  
 Elevation:V-plane  
 Polar-Across:Main  
 Polarization:Vertical  
 Max:-29.88dB  
 HPBW(3dB):30.17°  
 FBR:6.52dB  
 Circularity:24.25  
 Obliquity:111.87°

Gain:4.71dBi