

## HyperLink Wireless Brand 2.4/ 5.8 GHz Dual Band Omni Antennas

Models: HG2458-06U-PRO / HG2458-09U-PRO

### Applications

- 2.4/5.8 GHz IEEE 802.11a/b/g and 802.11ac applications
- 5.8 GHz UNII and ISM applications
- 2.4 GHz WiFi applications
- Wireless video systems
- Point-to-multipoint applications

### Features

- Superior performance
- Heavy duty industrial grade design
- Fiberglass radome
- All weather operation
- Integral N-Female connector



(HG2458-06U-PRO Shown)

### Description

#### Professional Performance

The HyperLink HG2458-xxU-PRO series are professional high gain dual band Omni-directional base station WiFi antennas designed and optimized for the 2.4 and 5.8 GHz frequency. These antennas are ideally suited for multipoint applications where long range and wide coverage is desired.

#### Rugged and Weatherproof

The HG2458-xxU-PRO series construction features a heavy-duty fiberglass radome for durability and aesthetics. Designed to operate in the harshest of environments, the HG2458-xxU-PRO series far exceeds other Omni-directional antennas. The included mounting system features twin heavy-duty mounting brackets and u-bolts for superior strength.



## Specifications

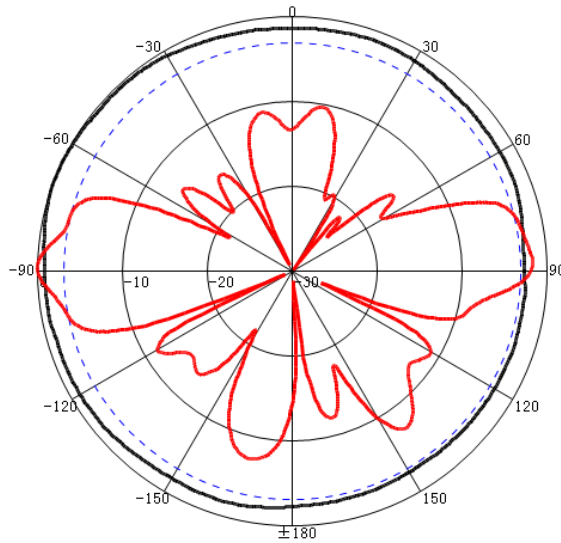
### Electrical Specifications

Models	HG2458-06U-PRO	HG2458-09U-PRO
Frequency Range	2400-2500 MHz / 5725-5850 MHz	
Gain	6 dBi	9 dBi
Polarization	Vertical	
Down Tilt	0°	
Vertical Beam Width	19°	11° @ 2.4 GHz; 9° @ 5.8 GHz
Horizontal Beam Width	360°	
Impedance	50 Ohm	
Max. Input Power	100 Watts	
VSWR	< 1.5:1 avg.	< 1.6:1 avg.
Lightning Protection	DC Short	

### Mechanical Specifications

Weight (Including Bracket)	3.2 lbs (1.45kg)	4.2 lbs (1.9kg)
Length	32.5 in. (825 mm)	50.8 in. (1290mm)
Radome Diameter	2.04 in. (51.8mm)	
Radome Material	Fiberglass	
Mounting	1.2 to 2.4 in. (30 to 60 mm) dia mast	
Operating Temperature	-40° C to 85° C (-40° F to 185° F)	
Connector	Integral N-Female	
RoHS Compliant	Yes	

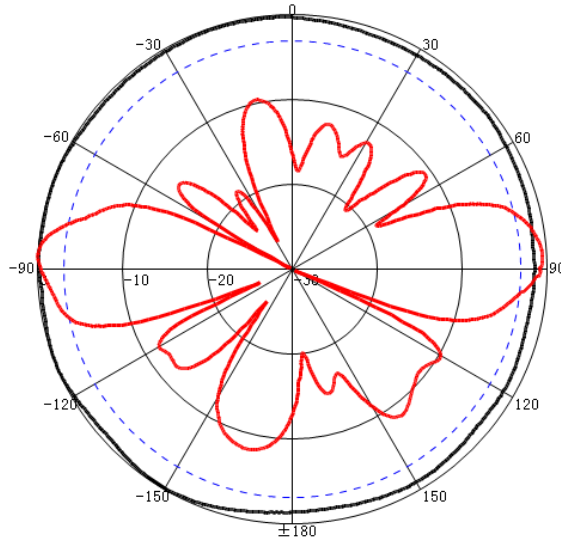
## HG2458-06U-PRO RF Antenna Patterns



Freq:2400MHz  
Date:2014-03-25  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-21.31dB  
HPBW(3dB):360.00°  
FBR:1.69dB

Freq:2400MHz  
Date:2014-03-25  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-20.75dB  
HPBW(3dB):22.57°  
FBR:0.00dB

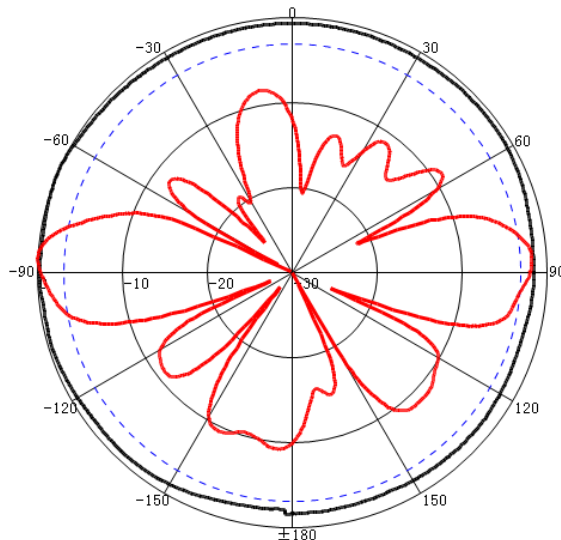
Gain:6.42dBi



Freq:2450MHz  
Date:2014-03-25  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-21.48dB  
HPBW(3dB):360.00°  
FBR:0.13dB

Freq:2450MHz  
Date:2014-03-25  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-20.67dB  
HPBW(3dB):23.28°  
FBR:0.00dB

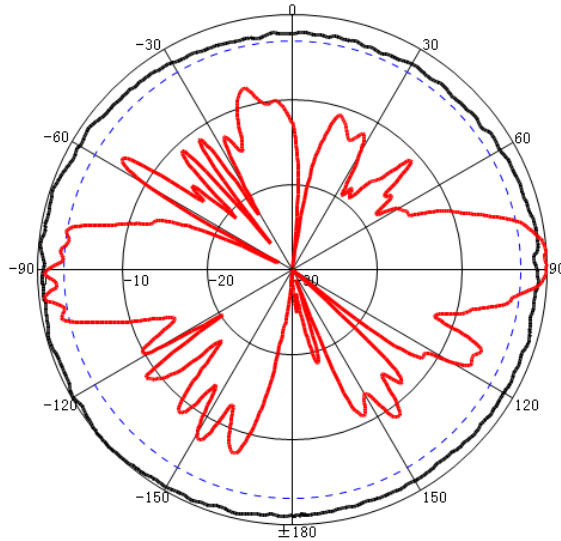
Gain:6.00dBi



Freq:2500MHz  
Date:2014-03-25  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-21.17dB  
HPBW(3dB):360.00°  
FBR:1.21dB

Freq:2500MHz  
Date:2014-03-25  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-21.00dB  
HPBW(3dB):21.63°  
FBR:0.00dB

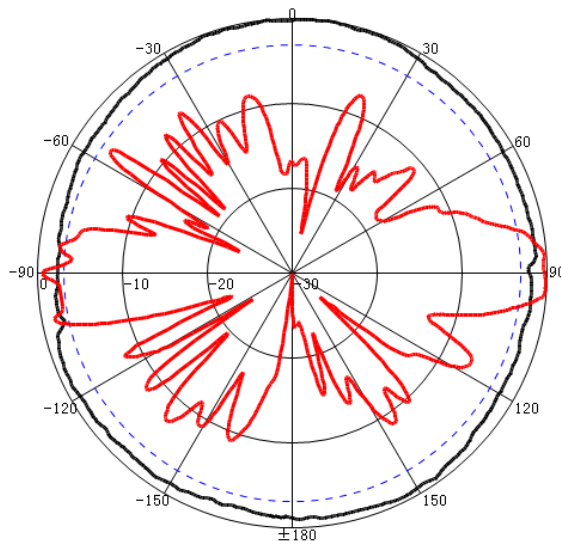
Gain:6.02dBi



Freq:5725MHz  
Date:2014-03-25  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-36.41dB  
HPBW(3dB):360.00°  
FBR:0.42dB

Freq:5725MHz  
Date:2014-03-25  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-34.80dB  
HPBW(3dB):18.17°  
FBR:0.62dB

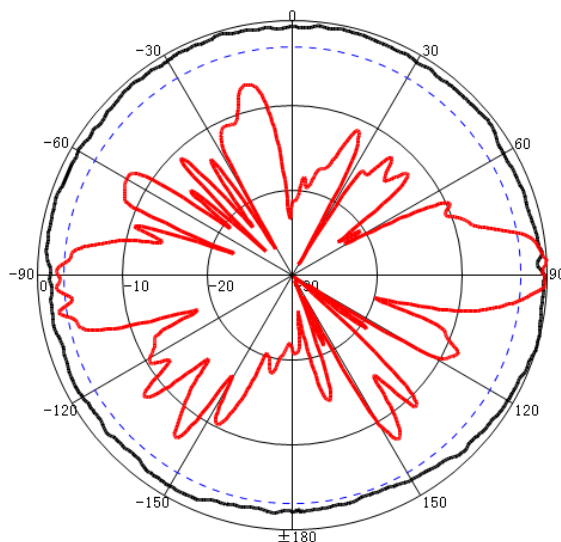
Gain:6.24dBi



Freq:5787MHz  
Date:2014-03-25  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-34.13dB  
HPBW(3dB):360.00°  
FBR:0.53dB

Freq:5787MHz  
Date:2014-03-25  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-33.09dB  
HPBW(3dB):19.25°  
FBR:0.61dB

Gain:6.38dBi

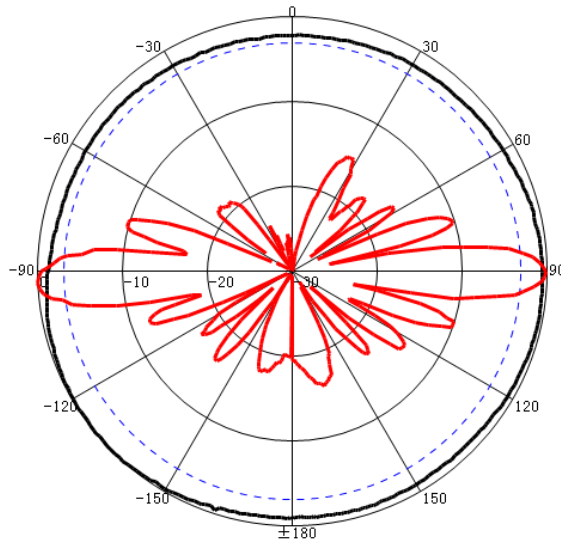


Freq:5850MHz  
Date:2014-03-25  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-33.85dB  
HPBW(3dB):360.00°  
FBR:1.22dB

Freq:5850MHz  
Date:2014-03-25  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-32.76dB  
HPBW(3dB):16.85°  
FBR:2.23dB

Gain:6.54dBi

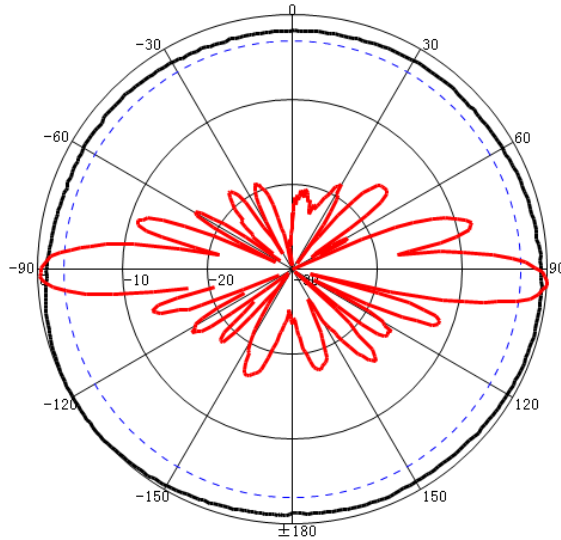
## HG2458-09U-PRO RF Antenna Patterns



Freq:2400MHz  
Date:2014-03-17  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:65.95dB  
HPBW(3dB):360.00°  
FBR:0.35dB

Freq:2400MHz  
Date:2014-03-17  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:65.88dB  
HPBW(3dB):11.02°  
FBR:0.00dB

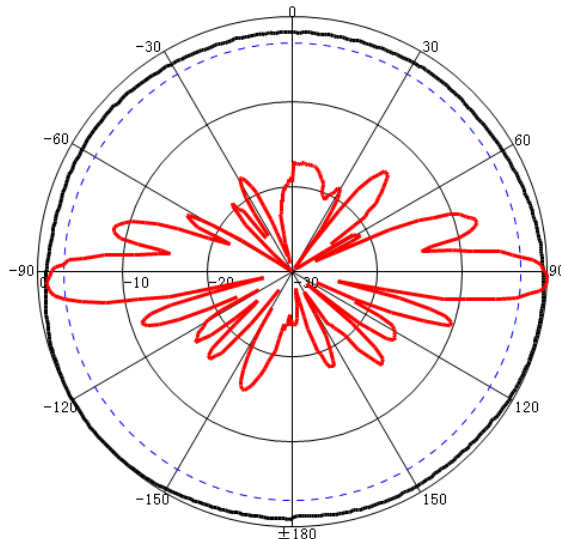
Gain:9.24dBi



Freq:2450MHz  
Date:2014-03-17  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:67.17dB  
HPBW(3dB):360.00°  
FBR:0.53dB

Freq:2450MHz  
Date:2014-04-17  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:67.27dB  
HPBW(3dB):10.10°  
FBR:0.27dB

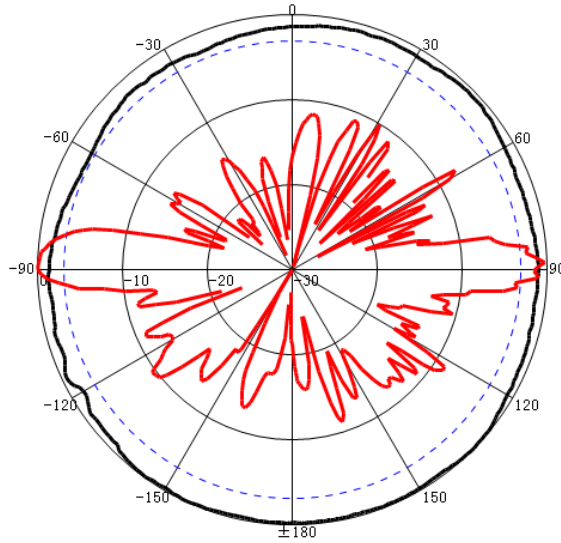
Gain:9.34dBi



Freq:2500MHz  
Date:2014-03-17  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:66.72dB  
HPBW(3dB):360.00°  
FBR:0.48dB

Freq:2500MHz  
Date:2014-04-17  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:66.39dB  
HPBW(3dB):9.81°  
FBR:1.11dB

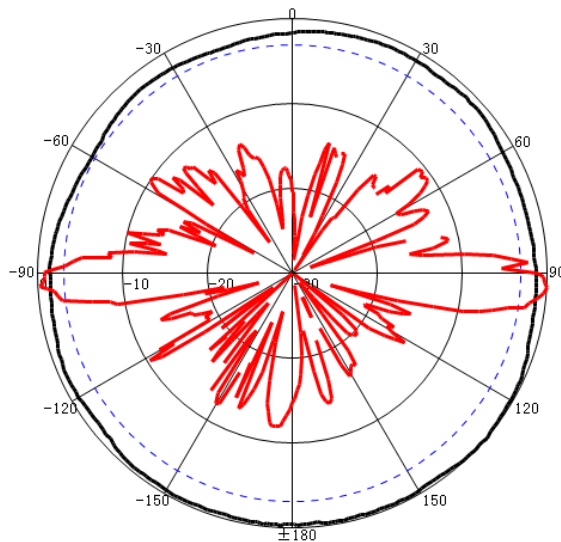
Gain:8.96dBi



Freq:5725MHz  
Date:2003-01-01  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-58.73dB  
HPBW(3dB):360.00°  
FBR:0.08dB

Freq:5725MHz  
Date:2003-01-01  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-59.88dB  
HPBW(3dB):12.14°  
FBR:0.00dB

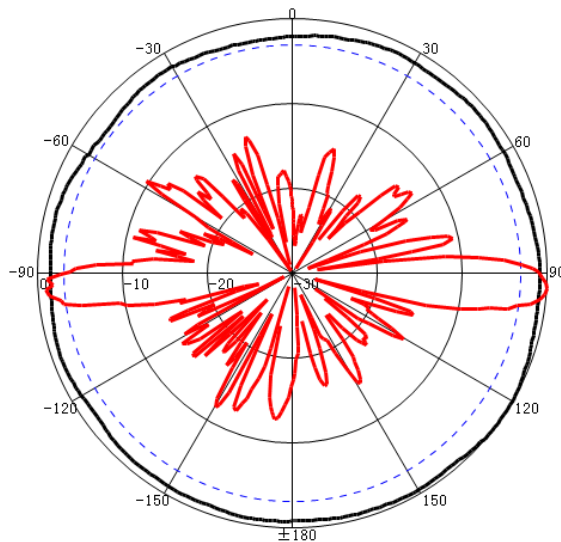
Gain:7.74dBi



Freq:5787MHz  
Date:2014-03-17  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-59.51dB  
HPBW(3dB):360.00°  
FBR:0.12dB

Freq:5787MHz  
Date:2014-03-17  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-61.27dB  
HPBW(3dB):9.29°  
FBR:0.27dB

Gain:8.33dBi



Freq:5850MHz  
Date:2014-03-17  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-59.40dB  
HPBW(3dB):360.00°  
FBR:0.45dB

Freq:5850MHz  
Date:2014-03-17  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-60.49dB  
HPBW(3dB):10.27°  
FBR:0.94dB

Gain:8.80dBi