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 Wi-Fi 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

RoHS Compliant

(HG2458-06U-PRO Shown)

Description

Professional Performance

The HyperLink HG2458-xxU-PRO series are professional high gain dual band omnidirectional base station Wi-Fi 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 omnidirectional antennas. The included mounting system features twin heavy-duty mounting brackets and u-bolts for superior strength.

Specifications

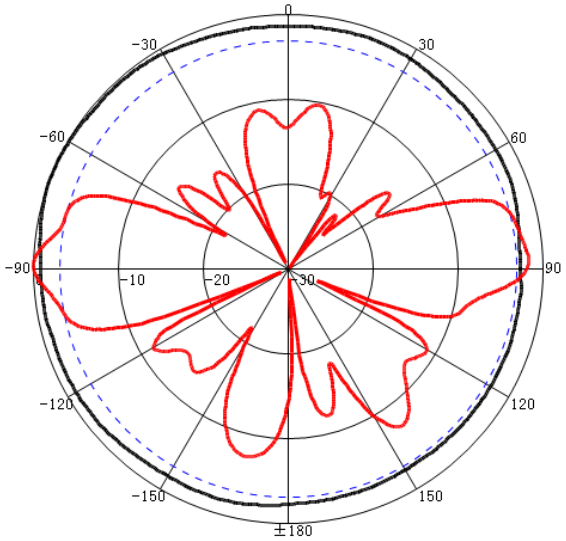
Electrical Specifications

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	

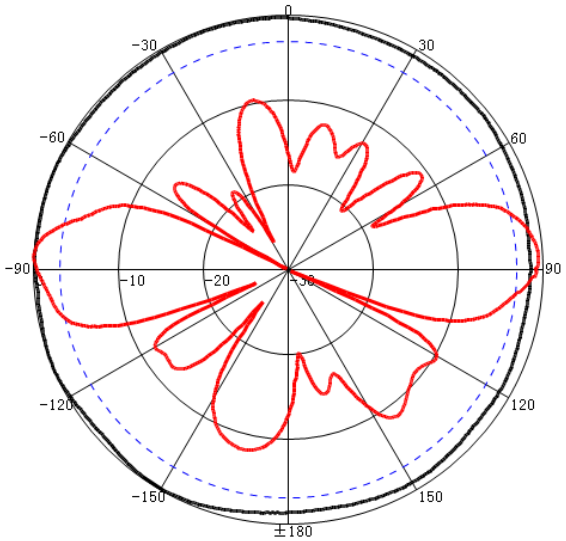
HG2458-06U-PRO RF Antenna Patterns



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

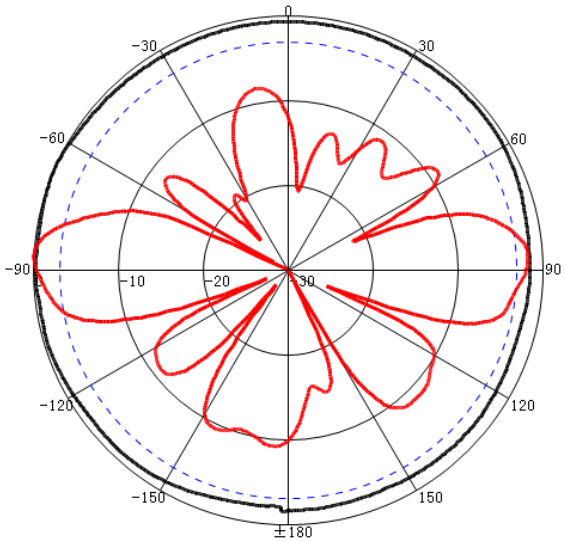
Gain:6.42dBi



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

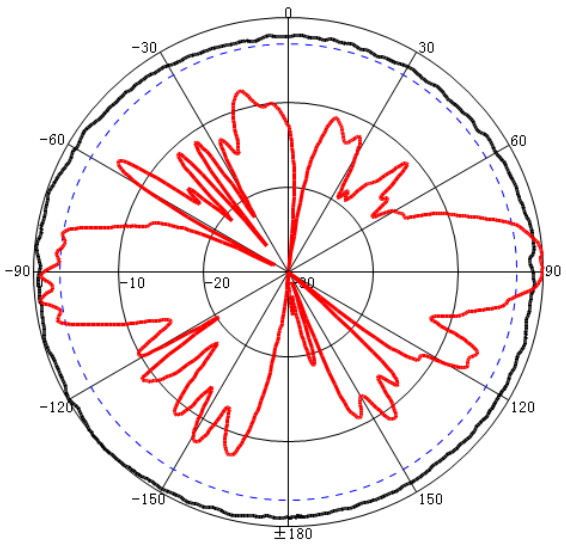
Gain:6.00dBi



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

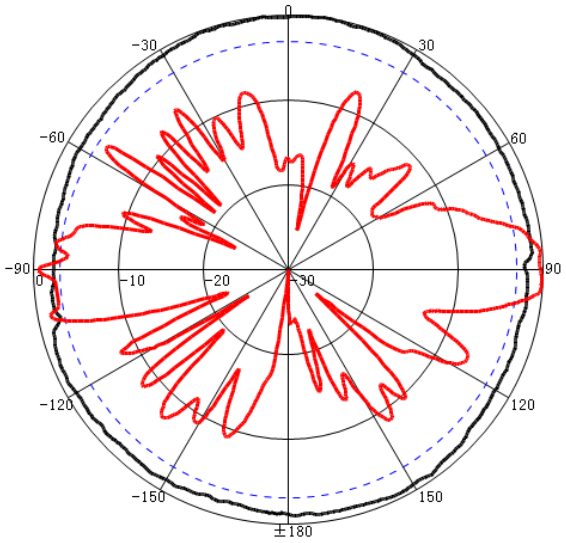
Gain:6.02dBi



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

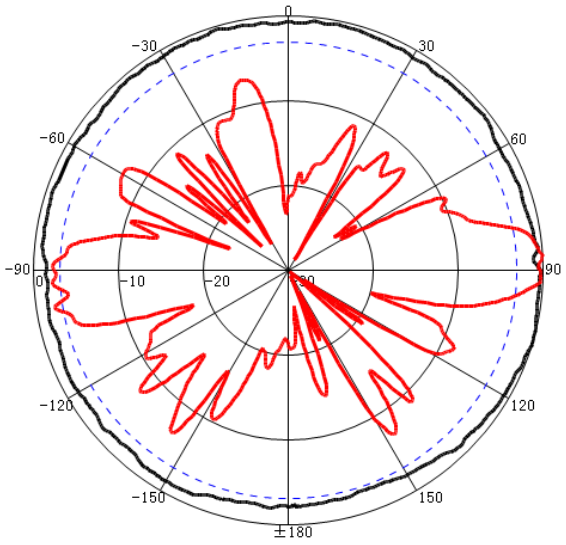
Gain:6.24dBi



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

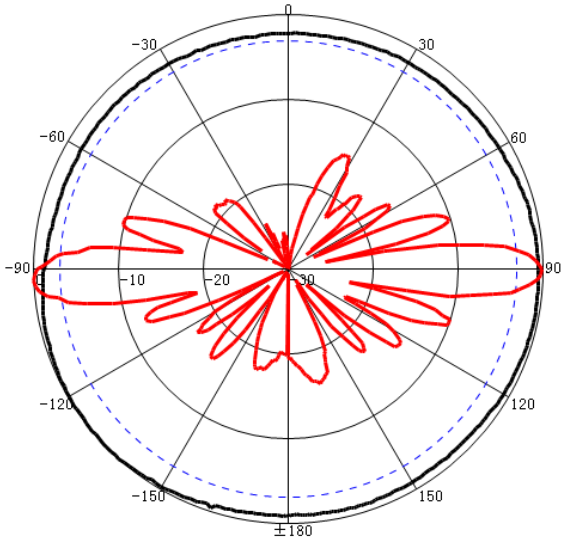


Freq:5850MHz
Date:2014-03-25
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-33.85dB
HPBW(3dB):360.00°
FBR:1.22dB

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

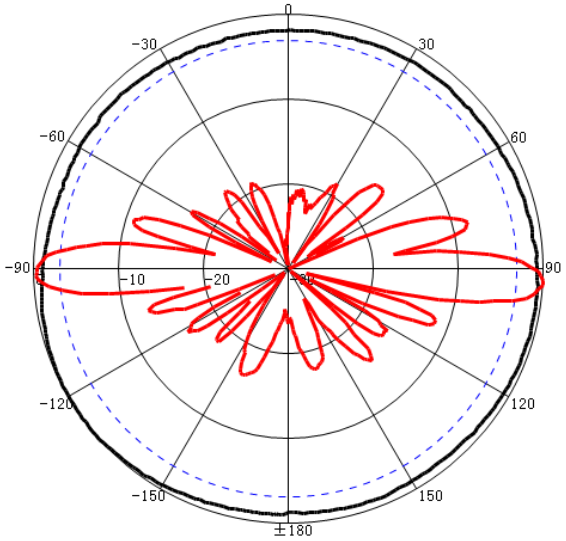
HG2458-09U-PRO RF Antenna Patterns



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

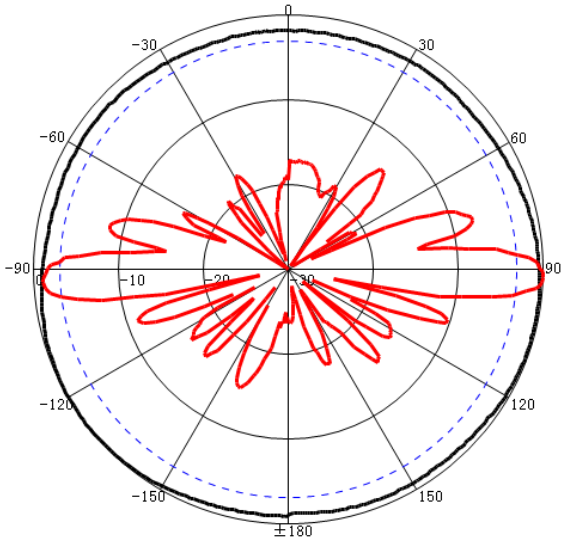
Gain:9.24dBi



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

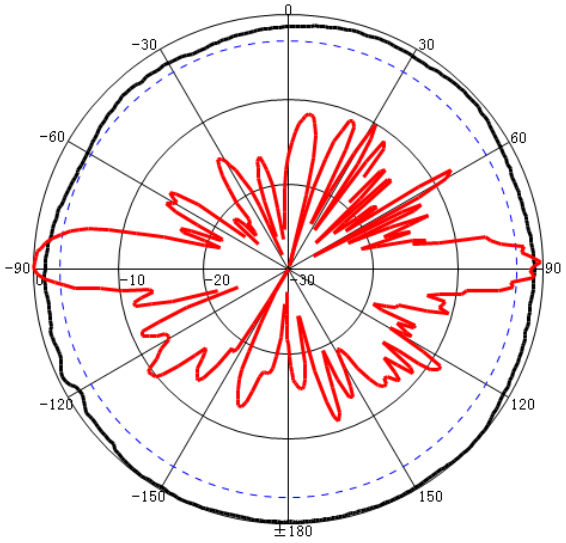
Gain:9.34dBi



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

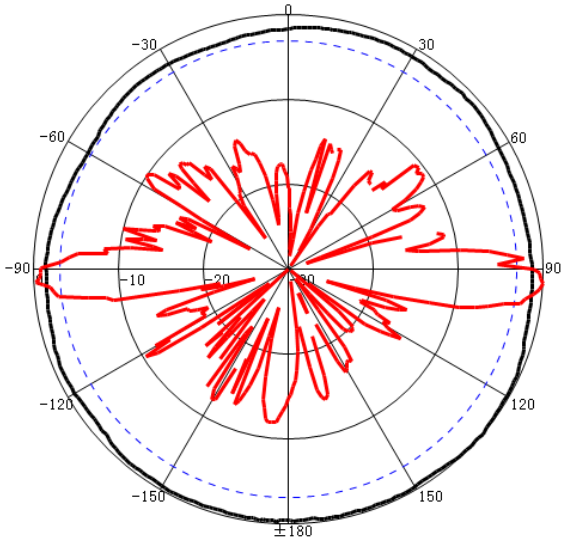
Gain:8.96dBi



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

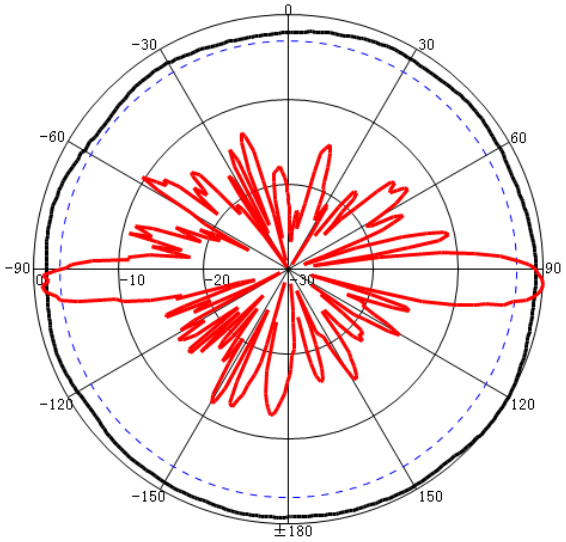
Gain:7.74dBi



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