HyperLink Wireless Brand 5.1-5.8 GHz Dual Polarized Sector Antenna
Model: HG5158-16DP-120

Features

- MIMO – Multiple-Input and Multiple-Output
- Dual Polarity feed system in single enclosure
- Two integral N-Female connectors
- Includes stainless steel mounting hardware
- UV-resistant radome for all-weather operation

Applications

- 5.1/5.3/5.4/5.8 GHz Wireless LAN systems
- 5.8 GHz UNII and ISM applications
- MIMO PtMP 1x2, 2x2 base station
- Supports IEEE 802.11a/n applications
- WiMAX, WISP, WiFi, Mobile Communication, Cell-sites

RoHS Compliant

Description

The HyperLink HG5158-16DP-120 Sectorial Panel Antenna combines vertical and horizontal polarization with high gain over a broadband frequency in a single enclosure. It is a professional quality cell-site antenna designed primarily for MIMO point-to-multipoint base station applications in the 5.1 GHz to 5.8 GHz frequency bands.

This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radio transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment.

Rugged and Weatherproof

This antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The HG5158-16DP-120 antenna is supplied with a stainless steel tilt and swivel mast mount kit. This allows installation at various degrees of up/down tilt for easy alignment.

The HG5158-16DP-120 makes an ideal alternative to the Ubiquiti AirMax Sector AM-5G16-120 antenna.

Specifications

Electrical Specifications

Frequency Range	5150-5850 MHz
Gain	16 dBi
Polarization	Vertical and Horizontal (Dual)
VSWR	<1.8
Horizontal Beamwidth (-6 dB)	120°
Vertical Beamwidth (-6 dB)	11°
Front to Back Ratio	> 25 dB
Port to Port Isolation	< -28 dB
Max. Input Power	100 watts
Input Impedance	50 Ohm
Lightning Protection	DC Ground

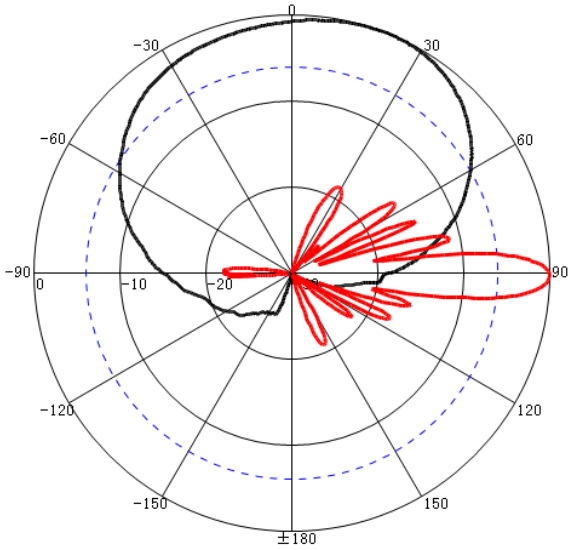
Mechanical Specifications

Connector Interface	N-Female (2x)
Rated Wind Velocity	130mph (210km/h)
Dimensions	31.3 x 4.5 x 2.5 in (795 x 115 x 65mm)
Weight (Including Bracket)	6.0 lbs (2.75kg)
Mounting Mast Size (Dia.)	1.2–1.9 in (30-50mm)
RoHS Compliant	Yes

Wind Loading Data

Wind Speed (MPH)	Loading – Front	Loading – Side
100	50 lbs	28 lbs
125	78 lbs	44 lbs

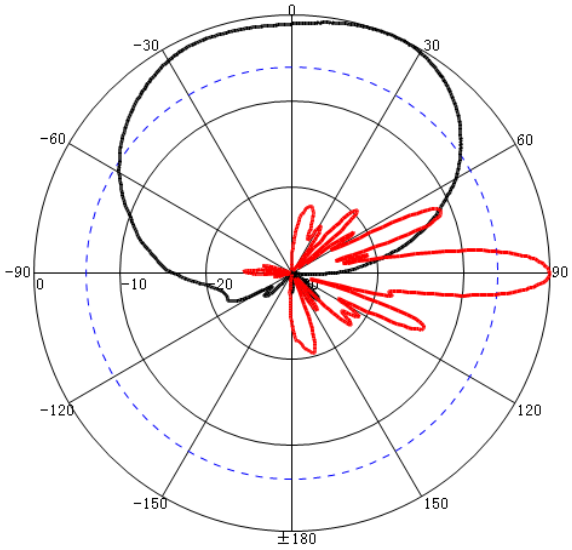
RF Antenna Patterns – Horizontal Polarity



Freq:5150MHz
Date:2014-02-11
Elevation:H-plane
Polar-Across:Main
Polarization:Horizontal
Max:-19.87dB
HPBW(3dB):87.97°
HPBW(6dB):116.03°
FBR:22.10dB

Freq:5150MHz
Date:2014-02-11
Elevation:V-plane
Polar-Across:Main
Polarization:Horizontal
Max:-19.06dB
HPBW(3dB):8.85°
HPBW(6dB):11.97°
FBR:21.95dB

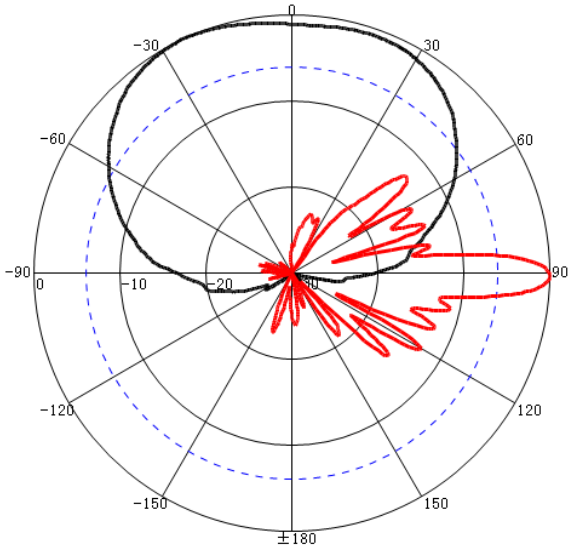
Gain:15.50dBi



Freq:5500MHz
Date:2014-02-11
Elevation:H-plane
Polar-Across:Main
Polarization:Horizontal
Max:-20.22dB
HPBW(3dB):87.02°
HPBW(6dB):111.43°
FBR:25.83dB

Freq:5500MHz
Date:2014-02-11
Elevation:V-plane
Polar-Across:Main
Polarization:Horizontal
Max:-19.22dB
HPBW(3dB):8.42°
HPBW(6dB):11.93°
FBR:24.43dB

Gain:15.29dBi

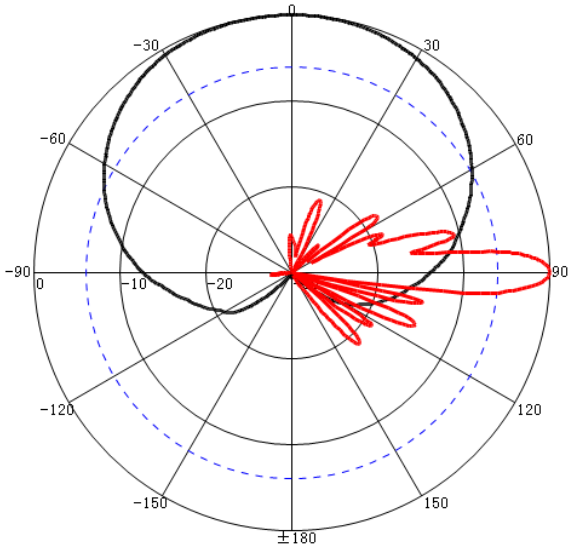


Freq:5850MHz
Date:2014-02-11
Elevation:H-plane
Polar-Across:Main
Polarization:Horizontal
Max:-23.49dB
HPBW(3dB):92.14°
HPBW(6dB):115.38°
FBR:28.47dB

Freq:5850MHz
Date:2014-02-11
Elevation:V-plane
Polar-Across:Main
Polarization:Horizontal
Max:-21.58dB
HPBW(3dB):8.18°
HPBW(6dB):11.29°
FBR:26.05dB

Gain:14.45dBi

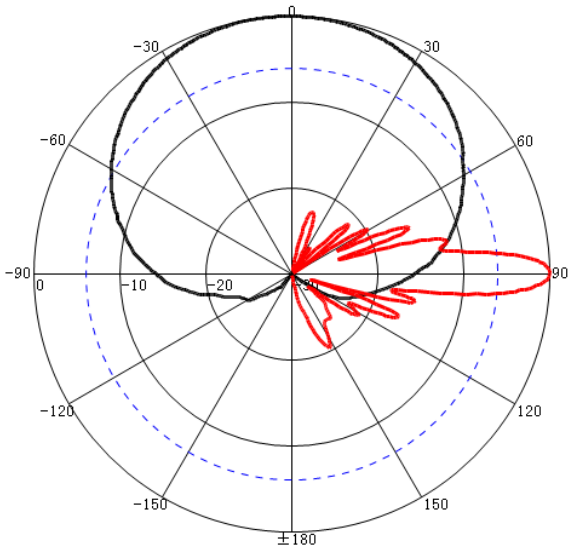
RF Antenna Patterns – Vertical Polarity



Freq:5150MHz
Date:2014-02-11
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-19.53dB
HPBW(3dB):94.53°
HPBW(6dB):126.23°
FBR:29.29dB

Freq:5150MHz
Date:2014-02-11
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-20.71dB
HPBW(3dB):8.35°
HPBW(6dB):11.40°
FBR:27.52dB

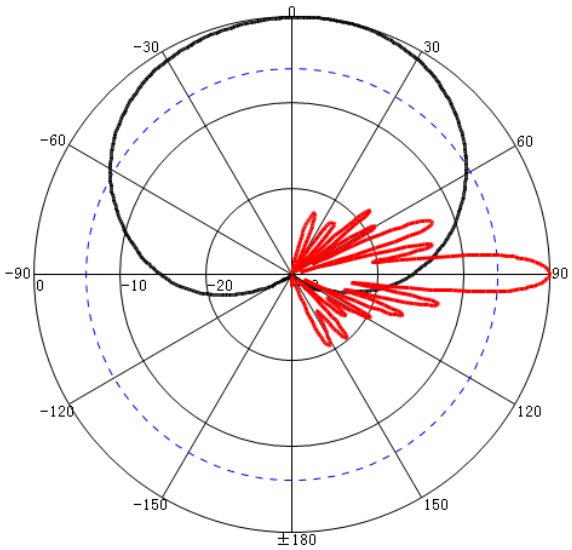
Gain:15.35dBi



Freq:5500MHz
Date:2014-02-11
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-20.08dB
HPBW(3dB):86.83°
HPBW(6dB):117.20°
FBR:34.21dB

Freq:5500MHz
Date:2014-02-11
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-20.81dB
HPBW(3dB):8.20°
HPBW(6dB):11.14°
FBR:30.26dB

Gain:15.71dBi



Freq:5850MHz
Date:2014-02-11
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-21.59dB
HPBW(3dB):90.38°
HPBW(6dB):119.31°
FBR:29.73dB

Freq:5850MHz
Date:2014-02-11
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-23.53dB
HPBW(3dB):7.46°
HPBW(6dB):10.19°
FBR:31.85dB

Gain:15.84dBi