

## HyperLink Wireless 5.1 to 5.8 GHz 28.5 dBi Dual Polarity & X Polarized/Dual Feed Dish Antenna - Model: HG5158DP-29D

### Applications

- 5.1/5.3/5.4/5.8 GHz ISM and UNII Band Applications
- Supports 1x2 and 2x2 MIMO AP/Routers
- 802.11a and 802.11 n MIMO Applications
- WiMAX Applications
- Long Distance Backhaul and Point to Point Data Links

### Features

- Adjustable Dual and X Polarity feed horn system
- (2) N-Female connectors
- Aluminum reflector dish with UV stable light gray polymer finish
- Includes tilt and swivel mast mount kit
- Optional radome cover kit available



### Description

The HyperGain model HG5158DP-29D is a high performance broadband dual polarized solid dish antenna. Because of its' superb electrical performance and mechanical stability, the parabolic dish antenna can be used in a wide variety of high performance 5 GHz range (5.1/5.3/5.4/5.8GHz) wireless applications. The wide 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 wireless applications. This antenna features 28.5 dBi of gain with a 5° horizontal beam-width and 5° vertical beam-width.

### Adjustable Dual Polarity Feed Horn System

The HG5158DP-29D features an adjustable dual polarity feed horn system which allows the antenna to be configured for Dual Polarization (horizontal and vertical) or for X-Polarization (+45° and -45°). It is fed via two N-Female connectors, one for each polarized signals. This feature makes it ideal for MIMO/802.11n and polarization diversity systems.

### Rugged and Weatherproof

The reflector dish of the HG5158DP-29D is constructed from high quality aluminum which gives it superior strength. The dish is coated in a light gray UV-inhibited polymer for durability and aesthetics. The small diameter of the dish helps minimize wind loading.



The HG5158DP-29D is supplied with a tilt and swivel mast mount kit. This allows installation at various degrees of incline for easy alignment. It can be adjusted up or down from 0° to 30°.

## Specifications

### Electrical Specifications

<b>Frequency</b>	5150-5850 MHz
<b>Gain</b>	28.5 dBi
<b>Polarization</b>	Adjustable - Dual Polarized (Vertical and Horizontal) or X-Polarized (+45° and -45°)
<b>Horizontal /Vertical Beam-width</b>	5° / 5°
<b>Front to Back Ratio</b>	≥ 35 dB
<b>Isolation</b>	≥ 28 dB
<b>Impedance</b>	50 Ohm
<b>Max. Input Power</b>	100 Watts
<b>VSWR</b>	< 1.5:1 avg.

### Mechanical Specifications

<b>Connectors</b>	(2) N-Female
<b>Weight</b>	12.1 lbs. (5.5 kg)
<b>Diameter</b>	23.6 in. (600 mm)
<b>Mounting</b>	1.5" (38mm) to 3" (76mm) dia. masts
<b>Operating Temperature</b>	-40° C to 85° C (-40° F to 185° F)
<b>RoHS Compliant</b>	Yes

### Wind Loading Data

Wind Speed (MPH)	Loading
100	113 lb.
125	177 lb.

### RF Antenna Patterns

