

## 5.1 GHz to 5.8 GHz 28.5 dBi Broadband Dual Polarized Solid Parabolic Dish Antenna - Model: HG5158DP-29D

### Applications and Features

- Applications:**
- 5.3 GHz Band Applications
  - 5.4 GHz Band Applications
  - 5.8GHz UNII applications
  - 5.8GHz ISM applications
  - IEEE 802.11a Wireless LAN
  - Unlicensed European 5.4 GHz Band Applications
  - WiMAX Technology
  - Long-range Directional Applications
  - Point to Point, Point to Multi-point Systems
  - Wireless Bridges
  - Backhaul Applications
  - 5.8 GHz Wireless Video Systems

- Features:**
- **Vertical and Horizontal polarization**
  - **Dual polarity feed system** - (2) N-Female connectors
  - Aluminum reflector dish
  - UV Stable light gray polymer finish
  - All weather operation
  - Includes tilt and swivel mast mount kit
  - Optional radome cover kits available
  - RoHS Compliant



### Description

#### Superior Performance

The HyperGain® model HG5158DP-29D is a high performance broadband dual polarized solid dish antenna designed to operate from 5.1 GHz to 5.8 GHz (5150-5850 MHz). The wide band design of this antenna eliminates the need to purchase different antennas for each frequency. This simplified installations since the same antenna can be used for a wide array of wireless applications. This antenna features 28.9 dBi of gain with a 5° beam-width.

#### Dual Polarization

These antennas feature a dual polarity feed system. The antenna is feed via two N-Female ports, one for vertically polarized and one for horizontally polarized signals. This feature makes these antennas ideal for polarization diversity systems. Since these antennas can transmit and receive on both vertical and horizontal polarities, they can be used with increased bandwidth systems.



## Rugged and Weatherproof

The reflector dish of these antennas are constructed from high quality aluminum which gives them 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.

These antennas are 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°.

## Optional Radome Cover Kits

HyperGain® Radome Covers are an ideal way to provide additional protection to our parabolic dish antennas. These light weight radome kits feature fiberglass construction and UV stable gray finish. Drain holes are provided on the radome cover to help prevent moisture build-up inside the dish antenna.

These radome kits bolt directly to the dish antennas with the provided stainless steel hardware. Drilling mounting holes in the antenna is not required. The radome cover can be attached to existing antennas already mounted in the field or pre-assemble to the antenna before mounting



## Specifications

### Electrical Specifications

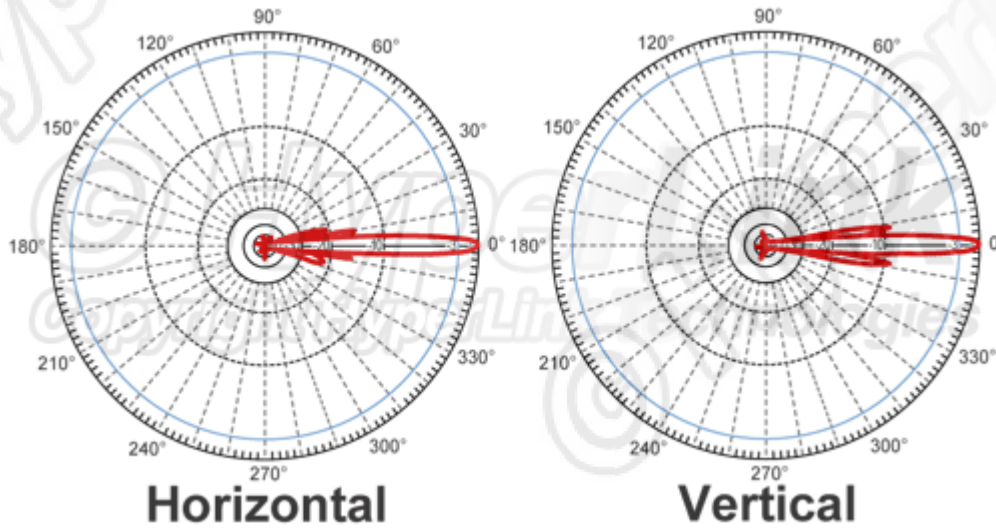
Frequency	5150-5850 MHz
Band Width	700 MHz
Gain	28.5 dBi
Polarization	Horizontal and Vertical
Horizontal Beam Width	5°
Vertical Beam Width	5°
Front to Back Ratio	≥ 35 dB
Isolation	≥ 28 dB
Impedance	50 Ohm
Max. Input Power	100 Watts
VSWR	< 1.5:1 avg.

### Mechanical Specifications

Weight	12.1 lbs. (5.5 kg)
Diameter	23.6 in. (600 mm)
Mounting	1.5" (38mm) to 3" (76mm) dia. masts
Operating Temperature	-40° C to to 85° C (-40° F to 185° F)
Connectors	(2) N-Female
RoHS Compliant	Yes
Radome Cover Part Number	HGR-06


**Wind Loading Data**

Wind Speed (MPH)	Loading	With Radome
100	113 lb.	75 lb.
125	177 lb.	116 lb.

**RF Antenna Patterns**

**Guaranteed Quality**

This product is backed by Hyperlink's Limited Warranty