

## HyperLink Wireless 4.9 to 5.8 GHz 30 dBi Dual Polarity & X Polarized/Dual Feed Dish Antenna - Model: HG4958DP-30D

### Applications

- 5.1/5.3/5.4/5.8 GHz ISM and UNII Band Applications
- 4.9 GHz Public Safety Band
- MIMO and 802.11 n Applications
- WiMAX Applications
- Long Distance Backhaul and Point to Point Data Links

### Features

- Wide Bandwidth
- 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



### Description

The HyperGain model HG4958DP-30D 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 4.9GHz and 5GHz 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 - 30 dBi of gain with a 4.8° horizontal beam-width and 4.9° vertical beam-width.

### Adjustable Dual Polarity Feed Horn System

The HG4958DP-30D 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 HG4958DP-30D 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 HG4958DP-30D 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**

**Mechanical Specifications**

<b>Connector Interface</b>	(2) N Female
<b>Diameter</b>	23.6 in (600mm)
<b>Weight</b>	13.45 lbs (6.1kg)
<b>Mounting Mast Size</b>	1.6 - 3 in (40-75mm)

**Electrical Specifications**

<b>Frequency</b>	4750 – 5850MHz
<b>Gain</b>	28 dBi @ 4.9-5.3 GHz / 30dBi @ 5.4 – 5.8 GHz
<b>Polarization</b>	Adjustable - Dual Polarized (Vertical and Horizontal) or X-Polarized (+45° and -45°)
<b>Horizontal /Vertical Beam-width</b>	4.8°/ 4.9°
<b>F/B ratio</b>	>35dB
<b>Cross-pol Isolation</b>	>30dB
<b>Max Input Power</b>	100 watts
<b>Impedance</b>	50 Ohm

**Wind Loading Data**

Wind Speed (MPH)	Loading
100	113 lbs
125	177 lbs

**RF Antenna Patterns**

