

HyperLink Wireless 4.9 to 5.8 GHz 34 dBi Dual Polarity & X Polarized/Dual Feed Dish Antenna - Model: HG4958DP-34D

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
- Aluminum reflector dish with UV stable light gray polymer finish
- Adjustable Dual and X Polarity feed horn system with (2) N-Female connectors
- Perforated dish helps reduce wind loading
- Includes tilt and swivel mast mount kit



Description

The HyperGain model HG4958DP-34D 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 31 - 34 dBi of gain with a 3.3° horizontal beam-width and 3.3° vertical beam-width.

Adjustable Dual Polarity Feed Horn System

The HG4958DP-34D 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-34D 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. Perforated holes in the dish helps minimize wind loading.



The HG4958DP-34D 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

Connector Interface	(2) N Female
Diameter	35.43 in (900mm)
Weight	21.16 lbs (9.6kg)
Mounting Mast Size	1.6 - 3 in (40-75mm)

Electrical Specifications

Frequency	4750 – 5850MHz
Gain	31 dBi @ 4.9-5.3 GHz / 34 dBi @ 5.4 – 5.8 GHz
Polarization	Adjustable - Dual Polarized (Vertical and Horizontal) or X-Polarized (+45° and -45°)
Horizontal /Vertical Beam-width	3.3°/ 3.3°
F/B ratio	>40dB
Cross-pol Isolation	>30dB
Max Input Power	100 watts
Impedance	50 Ohm

Wind Loading Data

Wind Speed (MPH)	Loading
100	266 lbs
125	400 lbs

RF Antenna Patterns

