

4.9 GHz to 5.8 GHz 30 dBi Dual Polarity 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

- Dual Polarity feed system
- Wide Bandwidth
- Aluminum reflector dish
- 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.

Dual Polarization

The HG4958DP-30D features a dual polarity feed system. It is fed via two N-Female ports, one for vertically polarized and one for horizontally 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

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

Electrical Specifications

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

Wind Loading Data

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

RF Antenna Patterns

