

HyperLink Wireless 5.1 GHz to 5.8 GHz 31 dBi Broadband Solid Parabolic Dish Antenna - Model: HG5158-31D

Applications and Features

- Applications:**
- 5.3 GHz Band, 5.4 GHz Band, 5.8GHz UNII & 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 or Horizontal polarization
- N-Female connector
- Aluminum reflector dish with UV stable light gray polymer finish
- Includes tilt and swivel mast mount kit
- Optional radome cover kits available



Description

Superior Design - Broadband Performance

The HyperGain® model HG5158-31D is a high performance broadband solid dish antenna designed to operate from 5.1 GHz to 5.8 GHz (5125-5850 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 31 dBi of gain with a 4° beam-width. It can be oriented for either vertical or horizontal polarization.

Rugged and Weatherproof

The reflector dishes 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. Perforated holes in 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	31 dBi
Polarization	Horizontal or Vertical
Horizontal Beam Width	4°
Vertical Beam Width	4°
Front to Back Ratio	≥ 38 dB
Isolation	≥ 28 dB
Impedance	50 Ohm
Max. Input Power	100 Watts
VSWR	< 1.5:1 avg.

Mechanical Specifications

Weight	22.4 lbs. (10.0 kg)
Diameter	35.4 in. (900 mm)
Mounting	1.5" (38mm) to 3" (76mm) dia. masts
Operating Temperature	-40° C to 85° C (-40° F to 185° F)
Connector	N-Female
RoHS Compliant	Yes
Radome Cover Part Number-Optional	HGR-09

Wind Loading Data

Wind Speed (MPH)	Loading	With Radome
100	266 lb.	111 lb.
125	400 lb.	173 lb.

RF Antenna Patterns

