



HyperGain 5.1GHz to 5.8GHz 28dBi Broadband Parabolic Dish Antenna (Model: A-PDA5158-28)

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 polarisation
- ❖ N-Female connector
- ❖ Aluminium reflector dish with UV stable light grey polymer finish
- ❖ Includes tilt and swivel mast mount kit
- ❖ Optional radome cover kits available
- ❖ RoHS Compliant

Description

Superior Design – Broadband Performance

The HyperGain model **A-PDA5158-28** 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 28 dBi of gain with a 6° beam-width. It can be oriented for either vertical or horizontal polarisation.

Rugged and Weatherproof

The reflector dish of these antennas are constructed from high quality aluminium which gives them superior strength. The dish is coated in a light grey 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°.

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 grey 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.



Order Code: A-PDA5158-28

Electrical Specifications

Frequency	5150-5850 MHz
Bandwidth	700 MHz
Gain	28 dBi
Polarisation	Horizontal or Vertical
Horizontal Beam Width	6°
Vertical Beam Width	6°
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	11.2 lb (5.0 kg)
Diameter	23.6 in (600 mm)
Mounting	1.5" (38 mm) to 3" (76mm) dia. masts
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Connectors	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

