Broadband Parabolic Dish Antenna

4950 MHz to 7125 MHz, 30dBi Gain

Order Code: A-PDA4971-30

Key Features

Broadband operation covering 4.95 GHz to 7.125 GHz
High-gain 30 dBi performance for extended-range wireless links
Narrow 5° beamwidth for enhanced directivity and interference rejection
Supports both vertical and horizontal polarization
Rugged aluminium reflector construction
UV-stabilized weather-resistant finish
Perforated dish design to minimize wind loading
Adjustable tilt and swivel mast mounting system (0° to 30° elevation)
Optional fiberglass radome cover for enhanced environmental protection
Ideal for point-to-point wireless, broadband backhaul, industrial, security, and critical communication networks

Product Overview

The A-PDA4971-30 is a high-performance broadband parabolic dish antenna engineered for long-range wireless communications across the 4.95 GHz to 7.125 GHz frequency spectrum. Featuring an advanced wideband design, the antenna eliminates the need for multiple antenna models across different operating frequencies, simplifying network planning, inventory management, and field deployment.

Delivering 30 dBi of high-gain performance with a narrow 5° beamwidth, the A-PDA4971-30 is ideally suited for point-to-point wireless links, broadband backhaul networks, industrial communications, surveillance systems, and mission-critical data transmission applications where maximum signal strength and link reliability are required.

Constructed from premium-grade aluminium, the antenna reflector provides exceptional structural strength while maintaining a lightweight profile. A UV-stabilized grey polymer coating enhances environmental durability and long-term appearance in harsh outdoor environments. The perforated reflector design reduces wind loading, improving stability and survivability in exposed installations.

The antenna supports both vertical and horizontal polarization, offering deployment flexibility across a wide range of wireless systems. An integrated heavy-duty tilt and swivel mounting system enables precise alignment and allows elevation adjustment from 0° to 30° for optimal link performance.

For applications requiring additional environmental protection, an optional fiberglass radome cover kit is available. Designed for direct attachment without drilling, the lightweight UV-resistant radome enhances protection against weather, debris, and environmental contaminants while maintaining antenna performance. Integrated drainage provisions help prevent moisture accumulation and support long-term operational reliability.

Electrical Specifications

Frequency	4950-7125 MHz
Bandwidth	700 MHz
Gain	30 dBi
Polarisation	Horizontal or Vertical
Horizontal Beam Width	5°
Vertical Beam Width	5°
Front to Back Ratio	≥ 35 dB
Isolation	≥ 30 dB
Impedance	50 Ohm
Max. Input Power	50 Watts
VSWR	< 2.5:1 avg

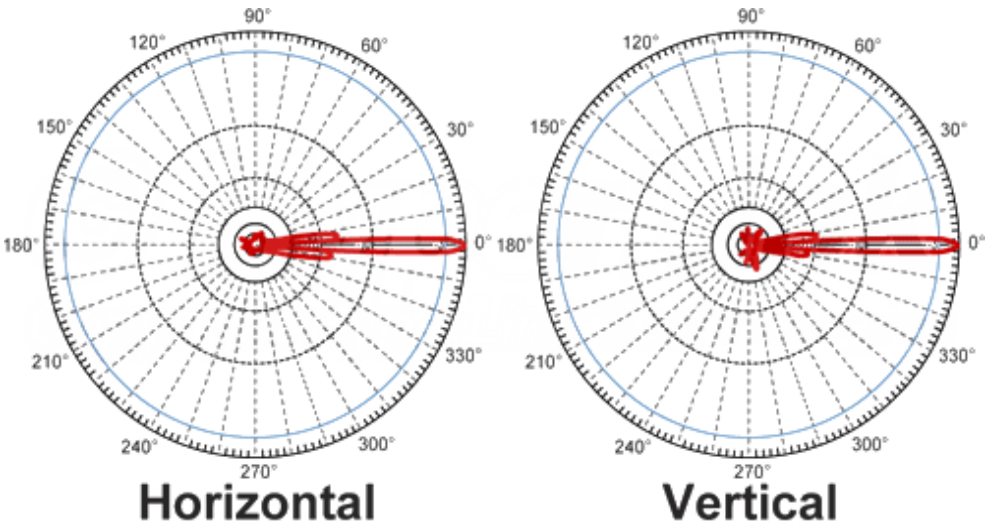
Mechanical Specifications

Weight	13.22 (6.0 kg)
Diameter	23.6 in (600 mm)
Mounting	1.1811" (30mm) to 3.14961" (80mm) dia. masts
Operating Temperature	-40°C to 70°C
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



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