

HyperLink Wireless Brand 2.4 GHz Professional 12 dBi Omnidirectional Antenna Model: HG2412U-PRO

Applications

- 2.4 GHz ISM band
- IEEE 802.11b, 802.11g and 802.11n
- Point to multi-point applications

Features

- Commercial grade all weather operation
- Center fed collinear array with solid brass elements
- Heavy-duty steel mounting brackets
- Integral N-Female connector
- Certified Anatel approved for use in Brazil



Description

The HyperLink HG2412U-PRO is a Professional Grade Omni-Directional antenna that can be used for Commercial installations. The antenna features high gain and superior VSWR. The unit is optimized for the 2.4GHz ISM band.

Superior Performance

A collinear Omni-Directional antenna that utilizes a center fed Collinear Dipole array offers superior performance over the traditional bottom fed collinear designs. A center fed collinear has radiating elements that are more uniformly fed with signals of the proper amplitude and phase. In a bottom fed design, the signals that reach the upper elements have undergone significant amplitude and phase degradation. In most cases, the upper elements of an end fed design contribute little to the antenna's final composite gain and pattern. In the HG2412U-PRO, an internal copper hard-line provides a low loss path to the antenna's central splitting and phasing component. The brass radiating elements utilize an air dielectric for lowest loss and superior radiating efficiency. The design is factory tuned for superior performance.

Rugged and Weatherproof

This antenna's construction features a durable fiberglass radome for durability and aesthetics. Its mounting system features twin heavy-duty mounting brackets and U-Bolts for superior strength. The thick brass elements provide long life in hostile environments.

ANATEL Certification Brazil

The HG2412U-PRO antenna is fully homologated (tested) in Brazil and is ANATEL® APPROVED, meeting the performance requirements of the specifications. This assures the end user the antenna will provide the levels of performance contained in the antenna specifications. This is another antenna in a series of L-com antennas certified for installation and use throughout Brazil.

Specifications

Electrical Specifications

Frequency	2400-2500 MHz
Gain	12 dBi
Polarization	Vertical
Vertical Beam Width	6°
Horizontal Beam Width	360°
Impedance	50 Ohm
Max. Input Power	100 Watts
VSWR	1.5:1 or Less
Lightning Protection	DC Short

Mechanical Specifications

Weight Antenna	3.1 lbs (1.27kg)
Length	57.9 in. (1470mm)
Base Diameter	1.69 in. (42.9mm)
Radome Diameter	1.52 in. (38.6mm)
Radome Material	Gray Fiberglass Weatherproof
Mounting	2.0" diameter mast max.
Wind Survival	up to 150 MPH
Operating Temperature	-40° C to 85° C (-40° F to 185° F)
RoHS Compliant	Yes
Connector	Integral N-Female

RF Antenna Patterns

