

## HyperLink Wireless 900 MHz (824-960MHz) 9 dBi Yagi Antennas for ISM, GSM and Wireless LAN Systems

Model: HG909YE

### Applications and Features

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- Applications:**
- Point to multipoint applications
  - Non Line of Sight (NLOS)
  - GSM
  - RFID
  - SCADA
  - Wireless Video Links
  - 900MHz Cellular
  - 900MHz ISM Band
  - Wireless LAN systems
- Features:**
- Superior performance
  - Anodized Aluminum construction
  - All weather operation
  - Heavy-duty Elements
  - 15 inch Low Loss coax lead
  - Can be installed for either vertical or horizontal polarization
  - 1/8" thick plated steel mounting plate
  - RoHS Compliant



### Product Description

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#### Superior Performance

The HyperGain® HG909YE High-Performance Yagi Antenna combines high gain with a wide 30° beam-width. It is ideally suited for directional applications in the 900 GHz ISM and GSM bands as well as Non Line of Sight (NLOS) and Point to Multi-Point installations. Typical applications include 900 MHz Wireless LAN, SCADA, Wireless Video Links, 900 MHz Cellular, Non Line of sight (NLOS) applications and point to multi-point systems. External interference of this antenna is minimized due to the excellent front to back ratio. The antenna comes with a 15" Low Loss coax lead terminated with one of these standard connectors (N-Female, N-Male, RP-SMA Plug, SMA Male), others are available. The antenna can be installed for either vertical or horizontal polarization applications.

#### Rugged and Weatherproof

This antenna features a heavy-duty Anodized Aluminum antenna boom and elements. Secure mounting is assured by a 1/8" thick plated steel mounting plate and two plated steel U-bolts.

Specifications

HG909YE

<b>Model</b>	HG909YE
<b>Frequency</b>	824-960 MHz
<b>Gain</b>	9 dBi
<b>Polarization</b>	Horizontal or Vertical
<b>Horizontal Beam Width</b>	53° (Typical)
<b>Vertical Beam Width</b>	42° (Typical)
<b>Front to Back Ratio</b>	15 dB
<b>Impedance</b>	50 Ohm
<b>Max. Input Power</b>	100 Watts
<b>VSWR</b>	< 1.5:1 avg.
<b>Weight</b>	1.9 lbs. (0.87 kg)
<b>Length</b>	26.8 in. (0.68 m)
<b>Mounting</b>	2 in. (51 mm) diameter mast max.
<b>Operating Temperature</b>	-40° C to 85° C (-40° F to 185° F)
<b>Lightning Protection</b>	DC Short
<b>Connector</b>	N-Female, N-Male, RP-SMA Plug, or SMA Male
<b>Wind Survival</b>	135 MPH
<b>RoHS Compliant</b>	Yes

Wind Loading Data

Wind Speed (MPH)	Loading
100	5.6 lb.
120	8.8 lb.
100 w/1/2" Radial Ice	8 lb.

RF Antenna Gain Patterns

