

# HyperLink Wireless 2.4/ 5 GHz Dual Band / Dual Polarized Omni Antenna Model: HG2458-11DPU

#### Applications

- 2.4/5 GHz IEEE 802.11a/b/g applications
- Supports 1x2, 2x2 and 4x4 MIMO AP/Routers
- WiMax, WISP and WiFi applications
- Wireless video systems
- Point-to-multipoint applications

#### **Features**

- MIMO Multiple-Input and Multiple-Output
- Dual polarity/dual frequency feed system in single enclosure
- Separate inputs for 2.4 GHz and 5 GHz four connectors total
- UV-Resistant radome for all-weather operation
- Heavy duty industrial grade design



#### Description

The HyperLink HG2458-11DPU is a professional high gain dual band/dual polarity omnidirectional base station antenna designed and optimized for 2.4 and 5 GHz frequencies. This antenna is ideally suited for multipoint applications where long range and wide coverage is desired. The DPU series stands out from the competition since they are true 360 degree Omni directional antennas which feature patent pending technology.

#### **Dual Frequency / Dual Polarized**

The HG2458-11DPU is actually four antennas in one, a 2.4 GHz dual polarized antenna and a 5 GHz dual polarized antenna together in a single radome. Each frequency features separate feeds for both horizontal and vertical polarities, four N-Female connectors total.

This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radio transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment.



#### **Rugged and Weatherproof**

The HG2458-11DPU construction features a heavy-duty UV resistant PVCs radome for durability and aesthetics. Designed to operate in the harshest of environments, the HG2458-11DPU far exceeds other omnidirectional antennas. The included mounting system features twin heavy-duty mounting clamps and bolts for superior strength.



## Specifications

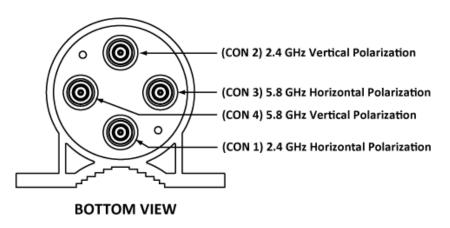
#### **Electrical Specifications**

Frequency Range	2400-2500 MHz		5100-5800	5100-5800 MHz	
Polarization (See Connection Diagram Below)	Horizontal (CON 1)	Vertical (CON 2)	Horizontal (CON 3)	Vertical (CON 4)	
Gain	6 dBi	6 dBi	11 dBi	11 dBi	
Vertical Beam Width (-3 dB)	30°	25°	6.5°	6.5°	
Horizontal Beam Width	360° 30		360°	360°	
Impedance	50 Ohm				
Max. Input Power	100 Watts				
VSWR	≤ 1.6		≤ 1.8	≤ 1.8	
Isolation	> 28 dB				
Lightning Protection	DC Ground (2.4 GHz; 5 GHz H pol)				
	DC Open (5	DC Open (5 GHz V pol)			

#### **Mechanical Specifications**

Connector	(4) N-Female
Weight	7.7 lbs (3.5 kg)
Length	49.2 in. (1250 mm)
Radome Diameter	2.9 in. (75 mm)
Radome Material	UV Resistant PVC
Mounting Mast Size (Dia)	1.6 to 3.5 in. (40 to 90 mm)
Operating Temperature	-40° C to 60° C (-40° F to 140° F)
Max. Wind Velocity	130 mph (210 km/h)
RoHS Compliant	Yes

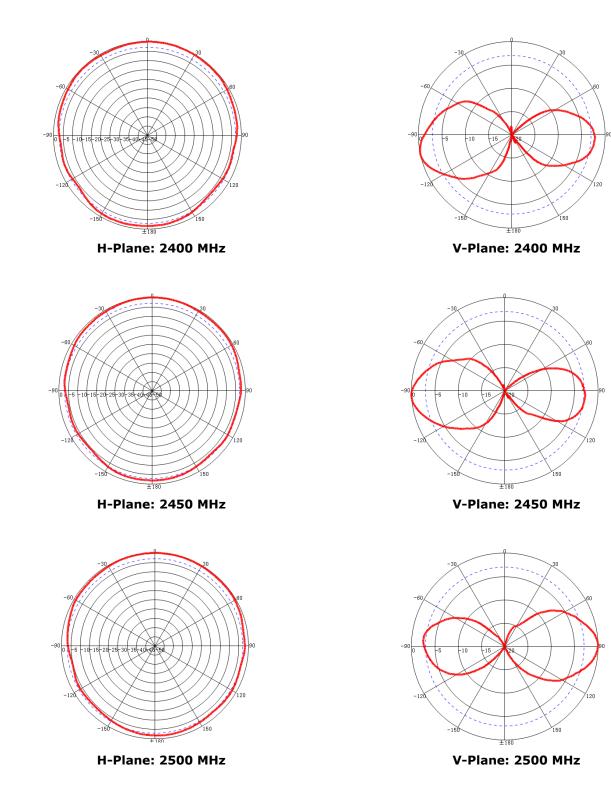
# CONNECTION DIAGRAM





#### **RF Antenna Patterns**

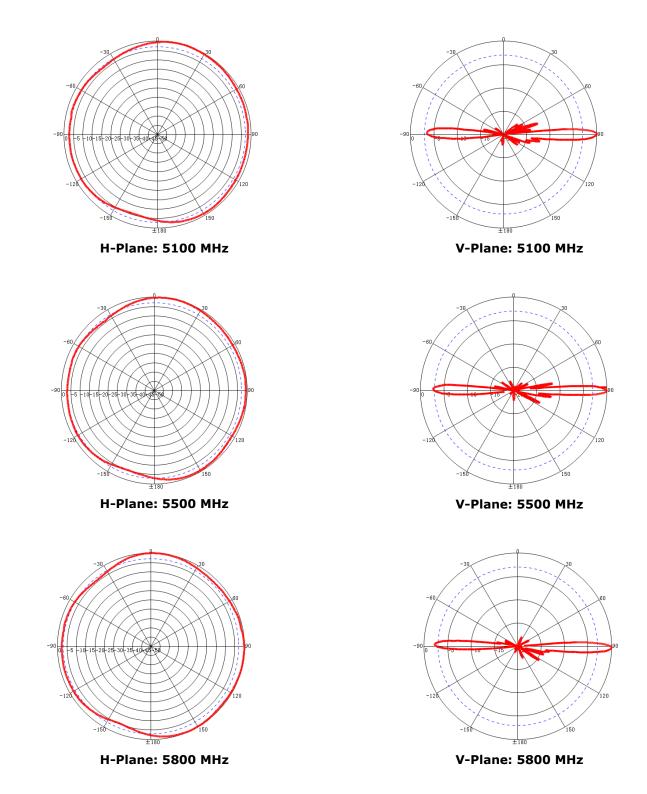
#### **Horizontal Polarization**



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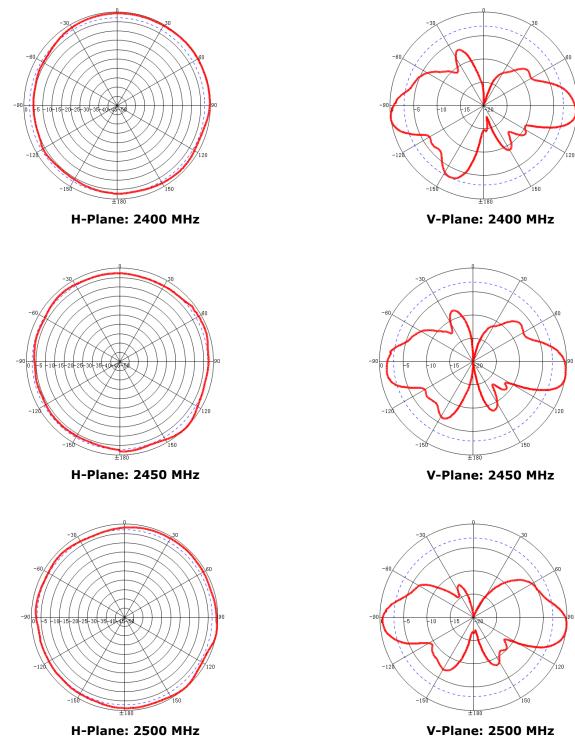


#### **Horizontal Polarization**





### **Vertical Polarization**



V-Plane: 2500 MHz



### **Vertical Polarization**

