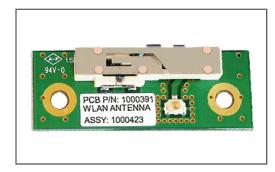


# Prestta™ WLAN Embedded Antenna

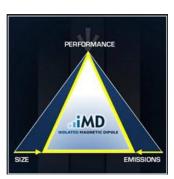
2.4/4.9/5.2/5.8 GHz (802.11 a/b/g/n + Japan)



Ethertronics' Prestta series of Isolated Magnetic Dipole™ (IMD) stamped metal antennas address the challenges facing today's product designers. IMD's high performance and isolation characteristics offer better connectivity and minimal interference. IMD antennas can be used in a variety of devices:

- Notebook Computers
- Access Points
- Industrial Handhelds
- WiFi enabled Televisions & Monitors

### TECHNOLOGY ADVANTAGES



#### Stays in Tune

IMD antenna technology provides superior RF field containment, resulting in less interaction with surrounding components. Ethertronics IMD antennas resist de-tuning; providing a robust radio link regardless of the usage position.

Prestta WLAN antennas use patented IMD technology in a stamped metal configuration to provide high performance. IMD antennas requires a smaller design keep-out area, carry lower program development risk which yields a quicker time-to-market, without sacrificing RF performance.



### **KEY BENEFITS**

### **DESIGN ADVANTAGES**

#### **Quicker Time-to-Market**

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

### **Greater Flexibility**

- Ethertronics' first-in-class IMD technology enables you to develop concept designs that are more advanced and that deliver superior performance in receptioncritical applications.
- U.FL Connector located on the PCB allows for custom cable lengths to fit a variety of devices

### **On-Ground Antenna**

Placement flexibility in devices without requiring ground clearance

### **RoHS Compliant**

• Ethertronics' antennas are fully compliant with the European RoHS Directive 2002/95/EC.

### **END USER ADVANTAGES**

# Unique Form Factors Support Advanced Industrial Designs

 Smaller, more efficient IMD embedded antennas break through restrictive design rules and provide new freedom in component placement.

### Superior Range & Signal Strength

 Better antenna function means longer range and greater sensitivity to critically precise signals delivering greater customer satisfaction while building brand loyalty.

### SERVICE AND SUPPORT

### **Extensive RF Experience**

 Our WLAN antennas are supported by documentation, and when needed, by the expertise of RF engineers who have integrated hundreds of antenna designs into wireless devices.

### **Global Operations & Design Support**

 Ethertronics' global operations supports an integrated network of design centers that can take projects from concept to production.

# PRODUCT: WLAN a/b/g/n + Japan

## Ethertronics' Internal (Embedded) Antenna Specifications.

Below are the typical specs for a WLAN application.

# **Electrical Specifications**Typical Characteristics

WLAN a/b/g/n + Japan	2.390-2.490	4.900-5.100	5.150-5.350	5.70-5.900
Antenna (GHz)	b, g	Japan	a	a
Peak Gain	-0.6dBi	2.5dBi	4.5dBi	3.5dBi
Average Efficiency	55%	71%	75%	65%
VSWR Match	3.0:1 max	2.5:1 max	2.5:1 max	3.0:1 max
Feed Point Impedance	50 Ω unbalanced (other if required)			

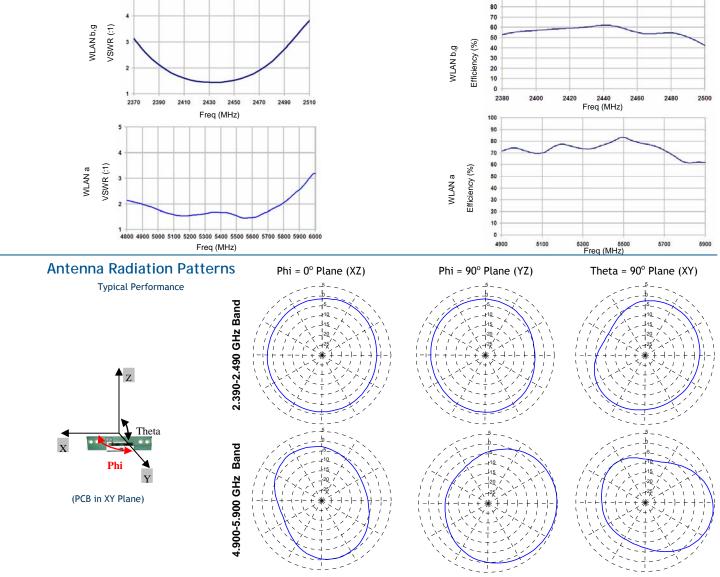
### **Mechanical Specifications**

**VSWR** 

Dimensions	26.7 x 5.0 x 7.1 mm (Antenna); 40.0 x 15.0 x 1.2 mm (PCB)	
Weight	1.6 g	
Cable / Connector	Contact Ethertronics for details.	
Cable Length	150 mm, 300mm 450mm, 600mm available	

**Efficiencies** 

100



© 2009 Ethertronics. All rights reserved. Ethertronics, the Ethertronics logo, shaping antenna technology, Prestta, Savvi, Tavvel, Isolated Magnetic Dipole and the iMD logo are trademarks of Ethertronics. All other trademarks are the property of their respective owners.

Specifications subject to change and are dependent upon actual implementation.

WL-11-11-09