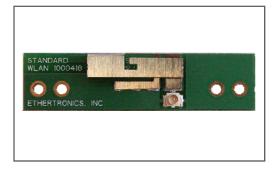
### **PRODUCT: WLAN**



Part No. 1000418

# Prestta™ WLAN Embedded Antenna

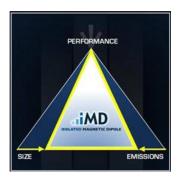
2.4/4.9/5.2/5.8 GHz (802.11 a/b/g/n + Japan)



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 reception-critical applications.
- Connector located on the PCB allows for custom cable lengths to fit a variety of devices

#### **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.

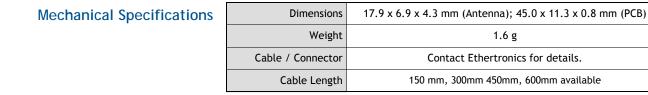
ETHERTRONICS

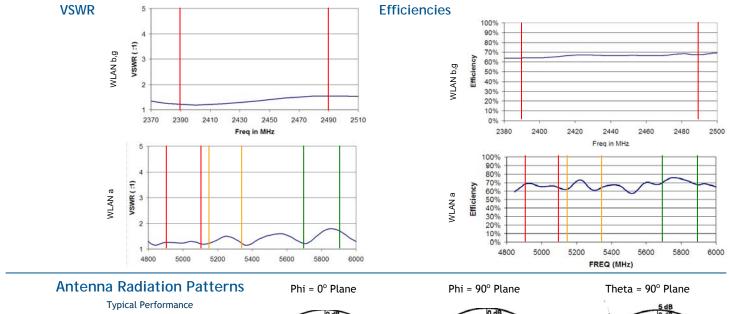
9605 Scranton Road, Suite 300 | San Diego, CA 92121 - USA | www.ethertronics.com tel +(1) 858.550.3820 | fax +(1) 858.550.3821 | contact: info@ethertronics.com

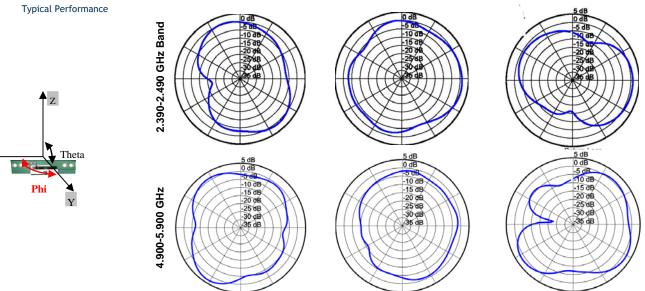
### PRODUCT: WLAN a/b/g/n + Japan Ethertronics' Internal (Embedded) Antenna Specifications.

	WLAN a/b/g/n + Japan Antenna (GHz)	2.390-2.490 b, g	4.900-5.100 Japan	5.150-5.350 a	5.70-5.900 a
	Peak Gain	1.5-2.5 dBi	1.5-3.5 dBi	2-3.5 dBi	2-3.5 dBi
	Efficiency	65%	65%	65%	70%
	VSWR Match	<2.0:1	<1.5:1	<2.0:1	<2.0:1
	Feed Point Impedance	50 $\Omega$ unbalanced (other if required)			

#### Below are the typical specs for a WLAN application.







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