

## Presta™ WLAN Embedded Antenna

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



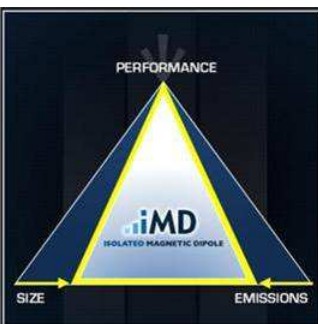
Ethertronics' Prestta series of Isolated Magnetic Dipole™ (IMD) trace antennas address the challenges facing today's product designers. IMD's high performance and isolation characteristics offer better connectivity and minimal interference.

IMD antennas can be used in a variety of devices:

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

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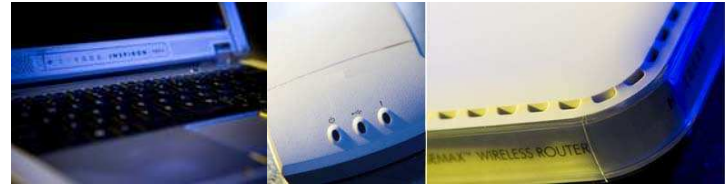
## TECHNOLOGY ADVANTAGES



### 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.

Presta WLAN antennas use patented IMD technology in a trace 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

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### 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.
- Multiple cable lengths to fit a variety of devices.

#### RoHS Compliant

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

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### 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.

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### 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

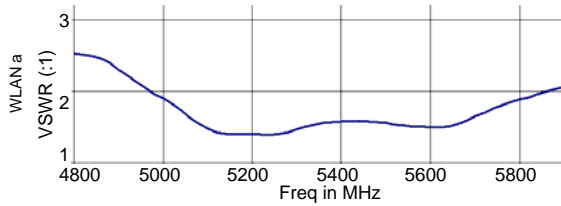
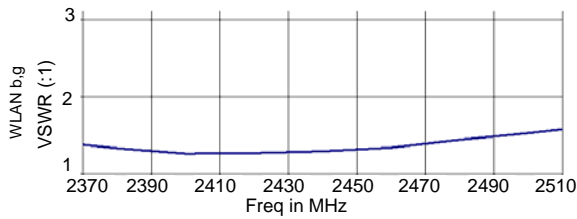
Typical Characteristics  
(In reference device housing made of PC/ABS plastic)

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	3.0-5.0 dBi	3.0-5.0 dBi	3.0-5.0 dBi
Efficiency	65%	65%	65%	50%
VSWR Match	<2.0:1	<2.5:1	<2.0:1	<2.5:1
Feed Point Impedance	50 Ω unbalanced (other if required)			

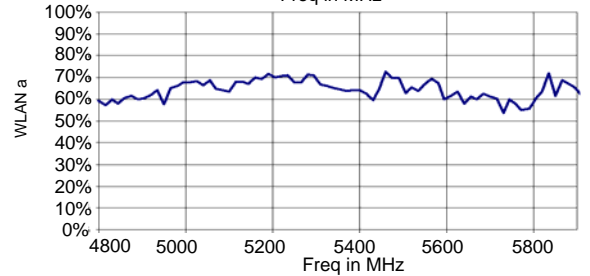
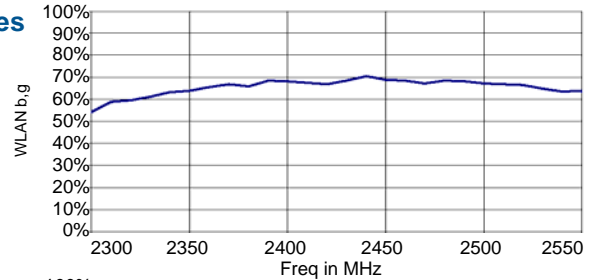
### Mechanical Specifications

Dimensions	35.2 x 8.5 x 0.85 mm
Weight	0.5 g
Cable / Connector	Contact Ethertronics for details.
Cable Length	1000615-A—Antenna with 100 mm cable 1000617-A—Antenna with 150 mm cable 1000668—Antenna with 50 mm cable 1000672—Antenna with 200 mm cable

### VSWR



### Efficiencies



### Antenna Radiation Patterns

Typical Performance

