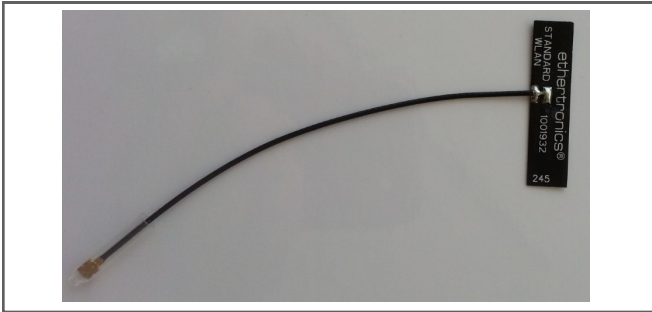


**Prestta™ WLAN**  
**Embedded Antenna**  
2.4/4.9/5.2/5.8 GHz (802.11 a/b/g/n + Japan)



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

**RoHS Compliant**

- Ethertronics' antennas are fully compliant with the European RoHS Directive 2011/65/EU.

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 & Tablets
- Access Points, Gateways, STB
- WiFi enabled Televisions & Monitors
- Trackers...

**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.

**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 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.

**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 - P/N 1001932**

**Ethertronics' Internal (Embedded) Antenna Specifications.**  
Below are the typical specs for a WLAN application.

**Electrical Specifications**

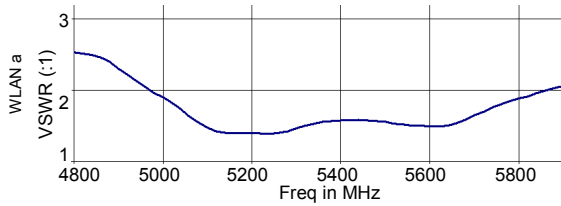
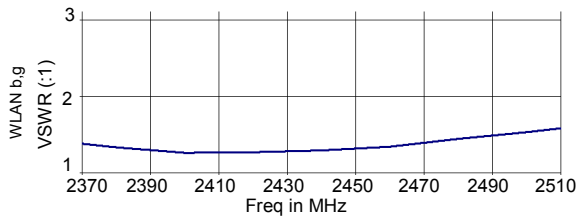
Typical Characteristics  
(In reference device housing made of PC/ABS plastic)

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)			

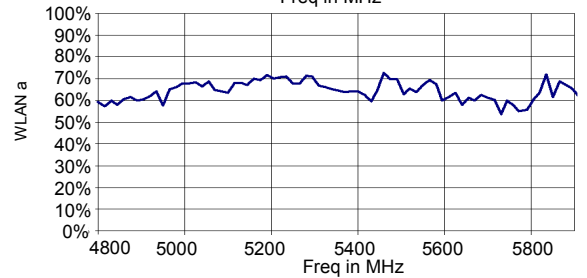
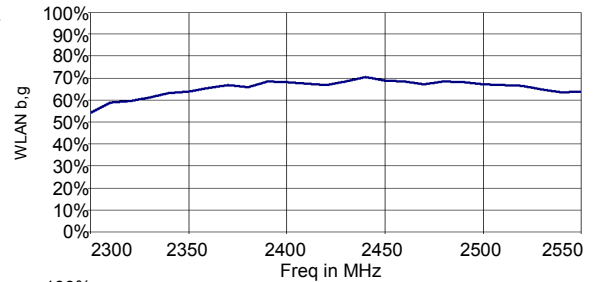
**Mechanical Specifications**

Dimensions	35.2 x 8.5 x 0.40 mm (Height up to 1.80mm at soldering point)
Weight	0.30 g
Cable / Connector	1.13 mm diameter & u.fl compatible connector
Cable Length	1001932–Antenna with 100 mm cable No Adhesive in the back side

**VSWR**



**Efficiency**



**Antenna Radiation Patterns**

Typical Performances

