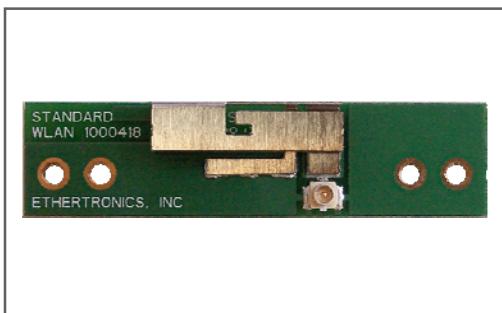


## Prestta™ WLAN Embedded Antenna

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

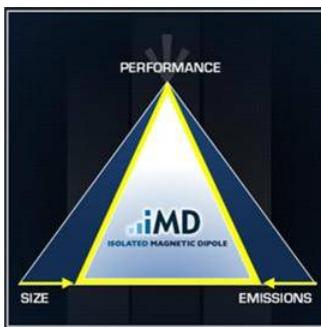


Ethertronics' Prestta series of Isolated Magnetic Dipole™ (IMD) stamped metal antennas address the challenges facing today's product designers. IMD's high performance and isolation characteristics offer better connectivity and minimal interference.

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 require 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.

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

Ethertronics' Internal (Embedded) Antenna Specifications.

Below are the typical specs for a WLAN application.

### Electrical Specifications

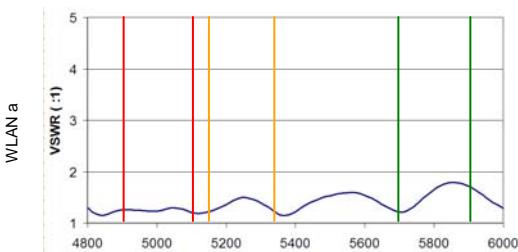
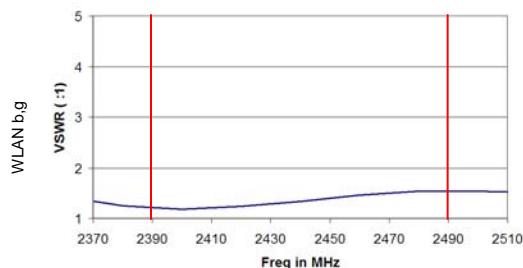
Typical Characteristics

| WLAN a/b/g/n + Japan<br>Antenna (GHz) | 2.390-2.490<br>b, g                 | 4.900-5.100<br>Japan | 5.150-5.350<br>a | 5.70-5.900<br>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 Ω unbalanced (other if required) |                      |                  |                 |

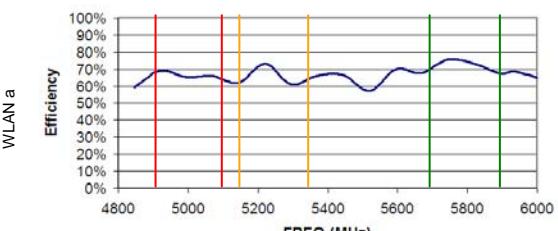
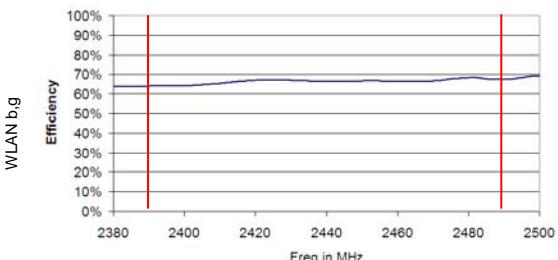
### Mechanical Specifications

|                   |   |
|-------------------|---|
| Dimensions        | 17.9 x 6.9 x 4.3 mm (Antenna); 45.0 x 11.3 x 0.8 mm (PCB) |
| Weight            | 1.6 g   |
| Cable / Connector | Contact Ethertronics for details.                         |
| Cable Length      | 150 mm, 300mm 450mm, 600mm available                      |

### VSWR

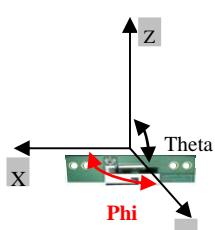


### Efficiencies

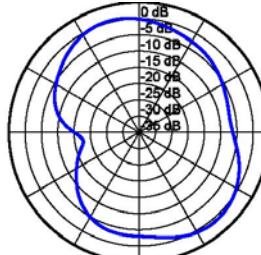


### Antenna Radiation Patterns

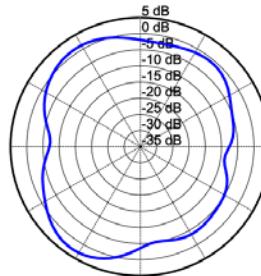
Typical Performance



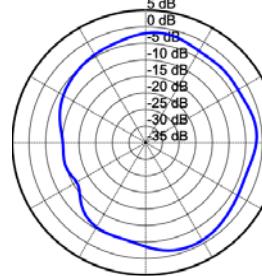
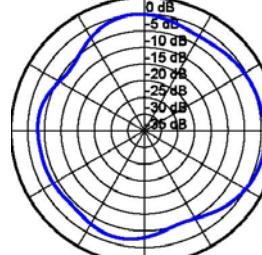
2.390-2.490 GHz Band



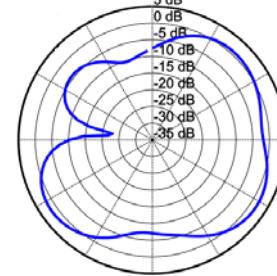
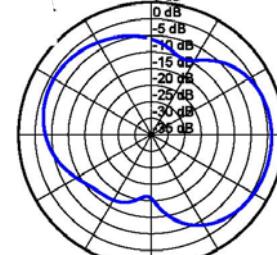
4.900-5.900 GHz



Phi = 90° Plane



Theta = 90° Plane



**Данный компонент на территории Российской Федерации****Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибуторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ Р В 0015-002 и ЭС РД 009

**Офис по работе с юридическими лицами:**

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru  
moschip.ru\_4

moschip.ru\_6  
moschip.ru\_9