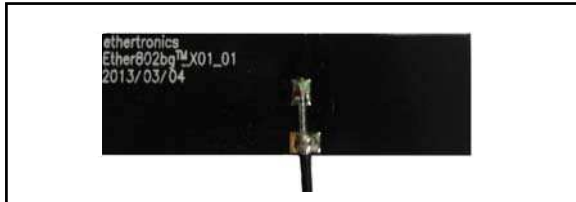


Presta™ Ether802™ Family of WLAN Embedded Antennas

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



Ethertronics' Presta series of Ether802 Isolated Magnetic Dipole™ (IMD) PCB trace antennas address the challenges facing today's product designers. The Ether802 antenna's high performance and isolation characteristics offer better connectivity and minimal interference.

Ether802 antennas can be used in a variety of applications including:

- Notebook Computers
- Access Points
- Set-Top Boxes
- Industrial Handhelds
- WiFi enabled Televisions and Monitors
- Other Wireless Devices

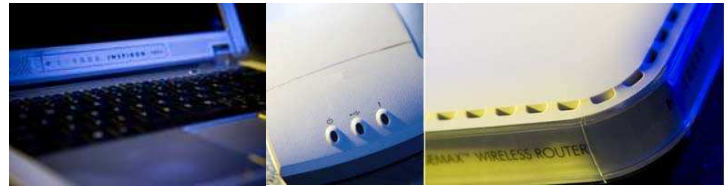
TECHNOLOGY ADVANTAGES



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

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.

END USER ADVANTAGES

Unique Form Factors Support Advanced Industrial Designs

- Smaller, more efficient PCB type 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

- Ether802 is supported by documentation, and when needed, by the expertise of RF engineers who have integrated hundreds of antenna and RF system designs into wireless devices.

Global Operations & Design Support

- Ethertronics' global operations encompass an integrated network of design centers that provide local customer support.

Ethertronics' Ether802bg™ Specifications
 Below are the typical specs for a product application.

Electrical Specifications

Typical Characteristics
 (Free Space)

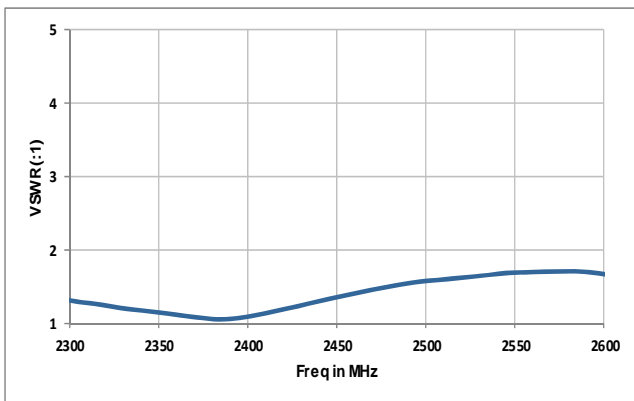
Ether802bg™ 2.4G antenna

WLAN b/g/n + Japan Antenna (GHz)	2.30-2.40	2.40-2.50	2.50-2.60
Peak Gain	3.2 dBi	3.8 dBi	3.6 dBi
Average Efficiency	78%	87%	82%
VSWR Match	2.0:1 max	2.0:1 max	2.0:1 max
Feed Point Impedance	50 Ω unbalanced (other if required)		

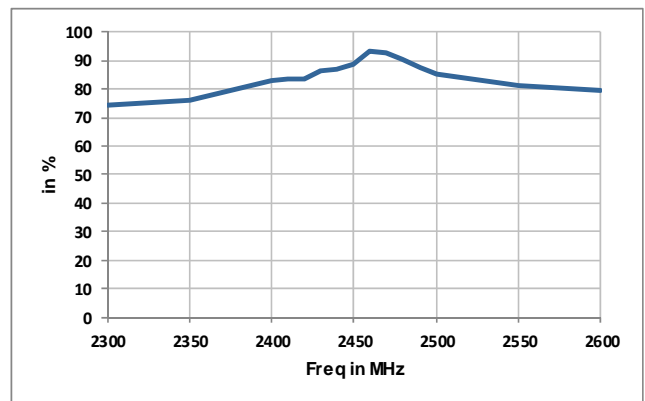
Mechanical Specifications

Dimensions	40.0 x 10.0 x 0.8 mm (PCB type)
Weight	0.6 g
Cable / Connector	U.FL cable/ connector; Contact Ethertronics for details.
Cable Length	150 mm

VSWR

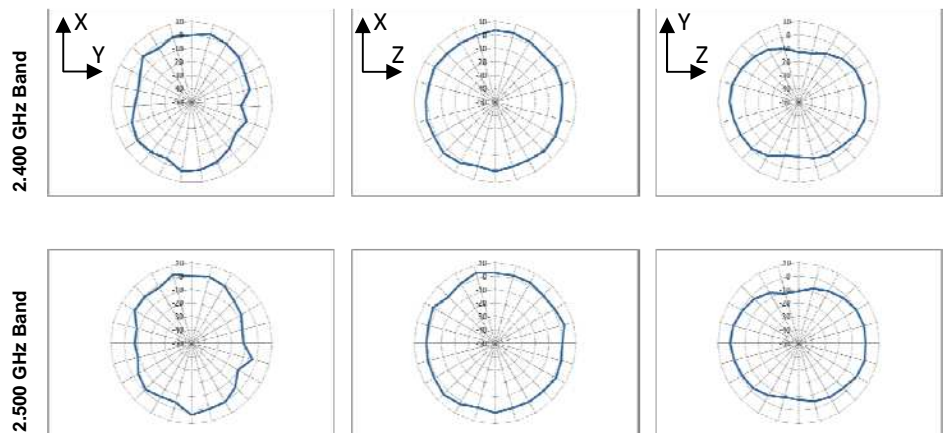
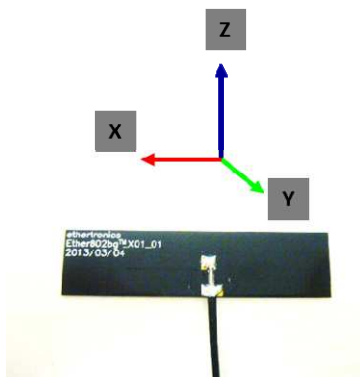


Efficiencies



Antenna Radiation Patterns

Typical Performance



Preliminary—specifications subject to change and are dependent upon actual implementation.

Ethertronics' Ether802ac™ Specifications
 Below are the typical specs for a product application.

Electrical Specifications

Typical Characteristics
 (Free Space)

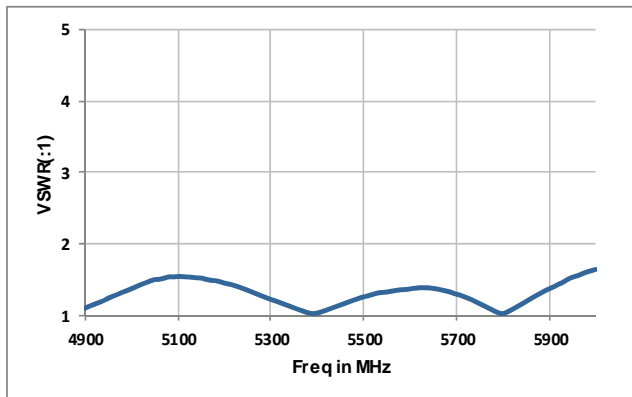
Ether802ac™ 5G antenna

WLAN Antenna (GHz)	4.90-5.150 Japan	5.150-5.350 a/n	5.47-5.725 a/n	5.725-5.900 a/n
Peak Gain	3.8 dBi	6 dBi	4.0dBi	3.2 dBi
Average Efficiency	79%	80%	71%	66%
VSWR Match	2.0:1 max	2.0:1 max	2.0:1 max	2.0:1 max
Feed Point Impedance	50 Ω unbalanced (other if required)			

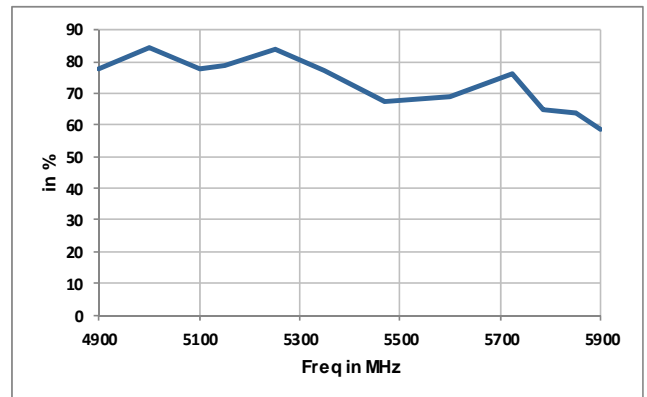
Mechanical Specifications

Dimensions	22.0 x 7.8 x 0.8 mm (PCB type)
Weight	0.5 g
Cable / Connector	U.FL cable/ connector; Contact Ethertronics for details.
Cable Length	150 mm

VSWR

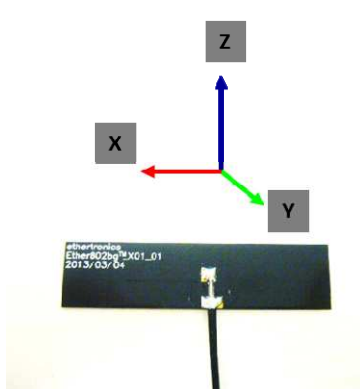


Efficiencies

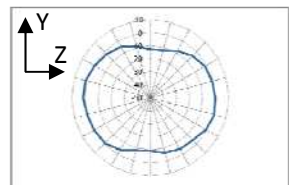
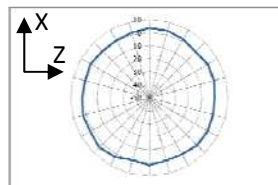
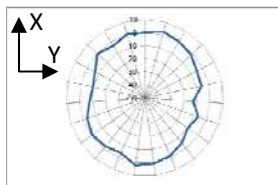


Antennas Radiation Patterns

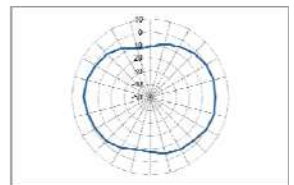
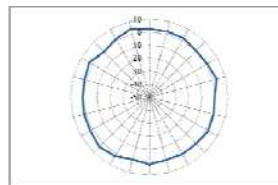
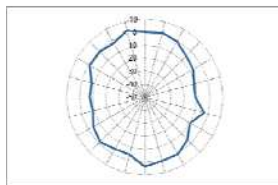
Typical Performance



5.150-5.350 GHz Band



5.70-5.900 GHz Band



Preliminary—specifications subject to change and are dependent upon actual implementation.

Ethertronics' Ether802™ Specifications
 Below are the typical specs for a product application.

Electrical Specifications

Ether802™ Dual band antenna

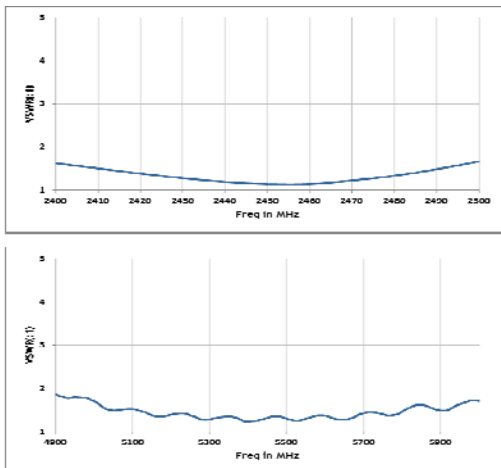
Typical Characteristics
 (Free Space)

WLAN Antenna (GHz)	2.40-2.50 b/g/n	4.90-5.150 Japan	5.150-5.350 a/n	5.47-5.725 a/n	5.725-5.900 a/n
Peak Gain	6 dBi	4.5 dBi	4.6 dBi	4.5 dBi	3.5 dBi
Average Efficiency	83%	84%	87%	75%	63%
VSWR Match	2.0:1 max	2.0:1 max	2.0:1 max	2.0:1 max	2.0:1 max
Feed Point Impedance	50 Ω unbalanced (other if required)				

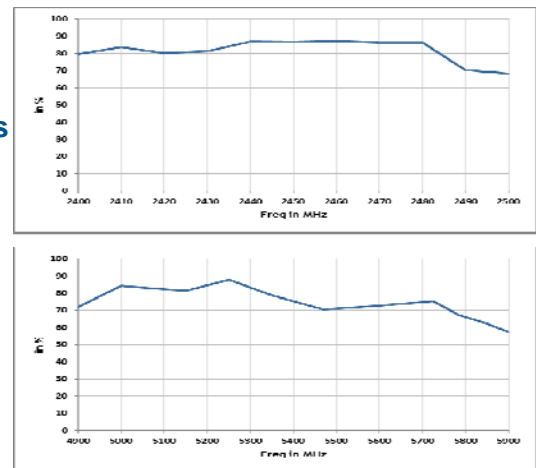
Mechanical Specifications

Dimensions	35.2 x 8.5 x 0.8 mm (PCB type)
Weight	0.5 g
Cable / Connector	U.FL cable/ connector; Contact Ethertronics for details.
Cable Length	150 mm

VSWR

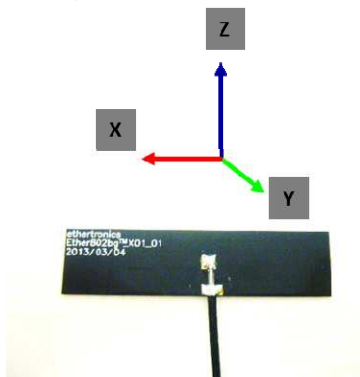


Efficiencies



Antennas Radiation Patterns

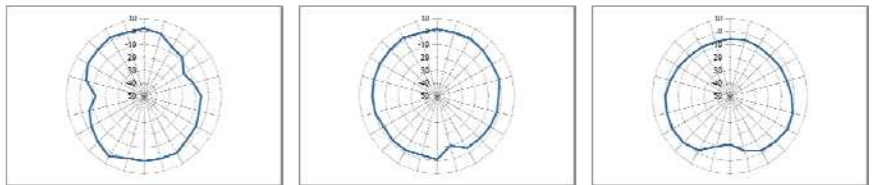
Typical Performance



2.390-2.490 GHz Band



4.900-5.900 GHz Band



Preliminary—specifications subject to change and are dependent upon actual implementation.