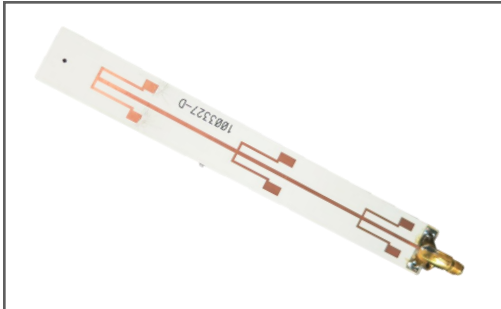


2.4GHz high performances PCB Embedded Antenna

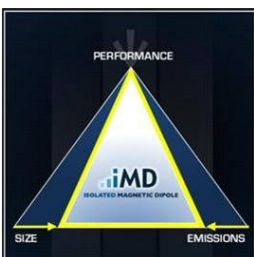
2400-2485 MHz



Ethertronics' series antennas address the challenges facing today's product designers. IMD's high performance and isolation characteristics offer better connectivity and minimal interference. The 2.4GHz high performances PCB antennas can be used in a variety of applications including:

- M2M
- Automotive
- Automatic Meter Reading
- Healthcare
- Point of Sale
- Tracking

TECHNOLOGY ADVANTAGES



Stays in Tune

Ethertronics antenna technology provides superior RF field containment, resulting in less interaction with surrounding components. Ethertronics antennas resist de-tuning; providing a robust radio link regardless of the usage position.

Ethertronics antennas use specific technology in a custom configuration to provide high performance. Our 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

Reduced Costs and Time-to-Market

- Standard antenna eliminates design fees and cycle time associated with a custom solution; getting products to market faster.

Greater Flexibility with Unique Form Factors

- Ethertronics' technology helps you deliver more advanced ergonomic designs without adverse impact on product performance.
- Easily mountable design enables faster and lower cost manufacturing.

RoHS Compliant

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

END USER ADVANTAGES

Unique Form Factors Support Advanced Industrial Designs

- Smaller, more efficient embedded antennas break through restrictive design rules and provide new freedom in component placement.

Superior Range

- 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 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 BRIEF: 2.4GHz PCB Antenna – P/N 1003327

Ethertronics' Wifi PCB Embedded Antenna Specifications

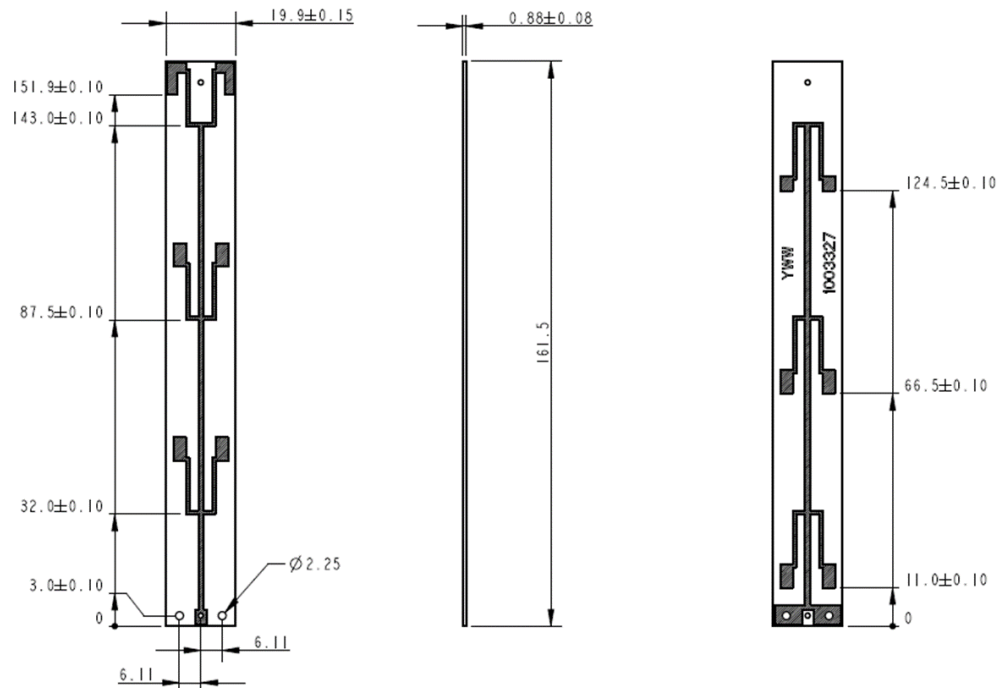
Electrical Specifications

Typical Characteristics
Measurements taken in **Free Space**

2.4GHz Wifi Band	2400-2485 MHz
Peak Gain # 1003327(2G3)	3.7dBi
Peak Gain # 1003327(2G2)	3.8dBi
Peak Gain # 1003327(2G1)	4.1dBi
Efficiency	73.9%
VSWR Match	<2:1
Input Power	2 Watt CW.
Feed Point Impedance	50 Ω unbalanced

Mechanical Specifications

Mechanical Mounting	Antenna Assembly is using coax cable
Packaging	Custom

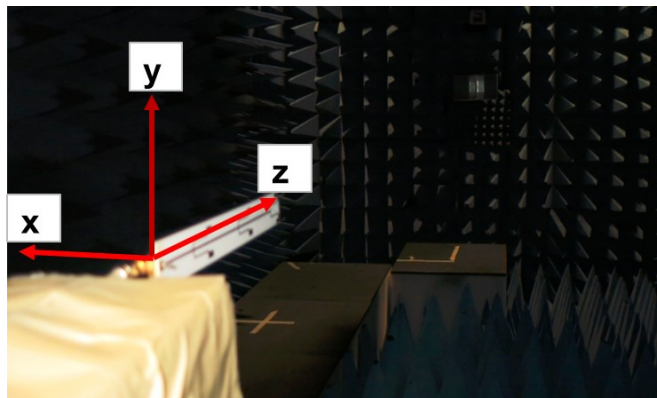


Important note : Dimensions and tolerances displayed as a guide and may change without notice. Please contact Ethertronics at info@ethertronics.com for additional information

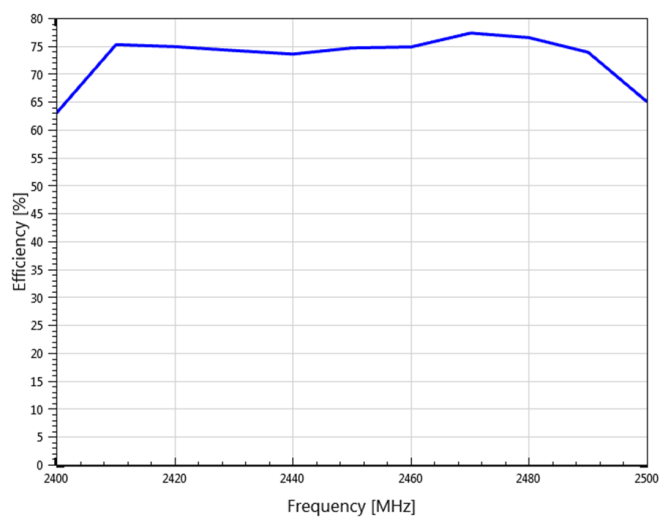
PRODUCT BRIEF: 2.4GHz PCB Antenna – P/N 1003327

Ethertronics' Wifi PCB Embedded Antenna Specifications

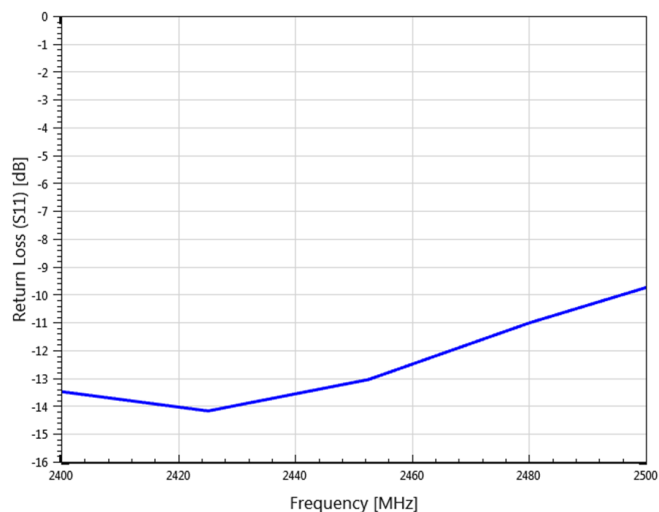
Test Setup



Typical Efficiency



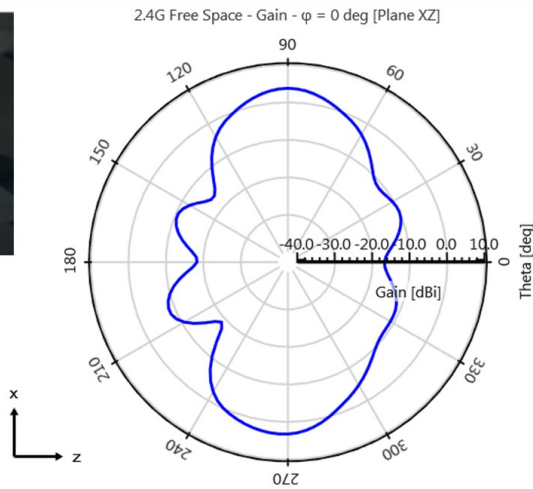
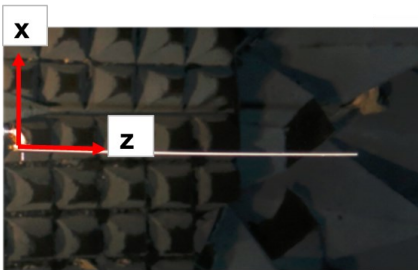
Typical VSWR



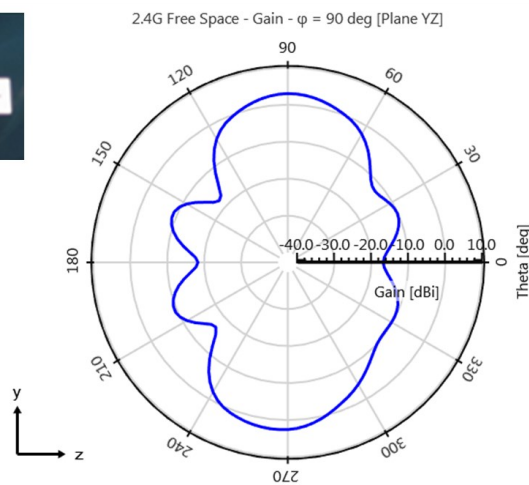
PRODUCT BRIEF: 2.4GHz PCB Antenna – P/N 1003327

Antenna Radiation Patterns

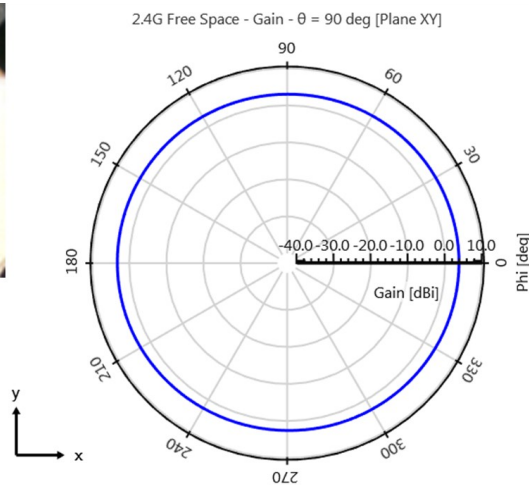
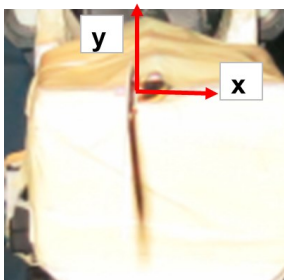
Typical Performance



Phi = 0



Phi = 90



Theta = 0

ARRIS Confidential Proprietary Information

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2.4GHz PCB 20160225