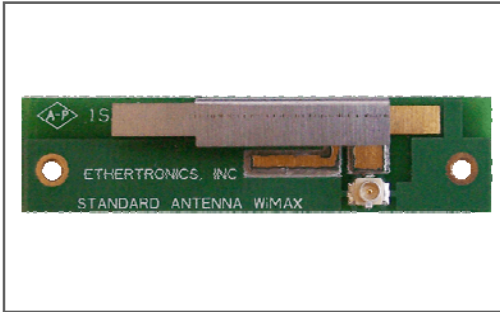


Prestta™ WiMAX Embedded Antenna

2.5–2.7, 3.3–3.8 GHz



Ethertronics' Prestta series of stamped metal antennas address the challenges facing today's product designers. Ethertronics' high performance and isolation characteristics offer better connectivity and minimal interference.

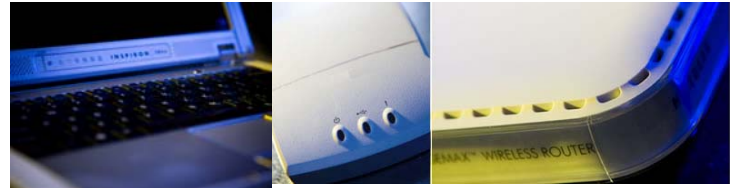
Prestta antennas can be used in a variety of devices:

- Notebook Computers
- Access Points
- Industrial Handhelds
- WiMAX enabled devices

TECHNOLOGY ADVANTAGES

Real-World Performance and Implementation

Ethertronics unique technology optimizes size and performance to meet customer specifications quickly while reducing time-to-market. High performance is achieved across the entire range of frequencies. High receive performance leads to lower overall system power consumption. Plus, high RF selectivity eliminates the cost and space for band-pass circuitry.



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 technology enables you to develop concept designs that are more advanced and that deliver superior performance in reception-critical applications.
- U.FL 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 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 WiMAX 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: WiMAX

Ethertronics' Internal (Embedded) Antenna Specifications.

Below are the typical specs for a WiMAX application.

Electrical Specifications

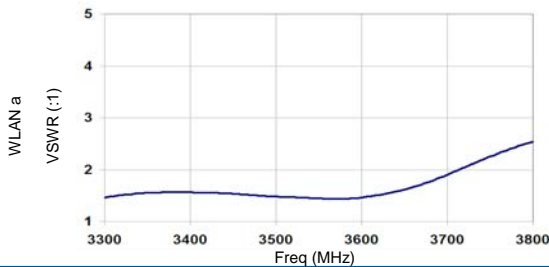
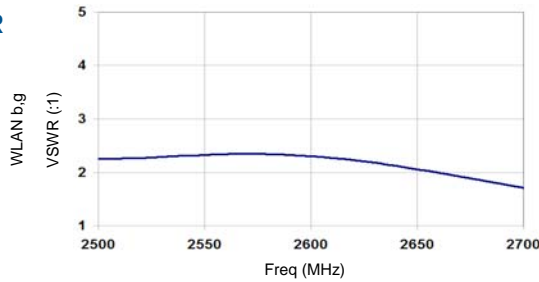
Typical Characteristics

WiMAX Antenna (GHz)	2.5–2.7	3.3–3.8
Peak Gain	1 dBi	3 dBi
Average Efficiency	45%	65%
VSWR Match	2.5:1 max	2.5:1 max
Feed Point Impedance	50 Ω unbalanced (other if required)	

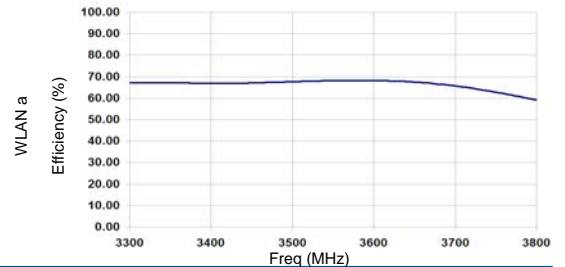
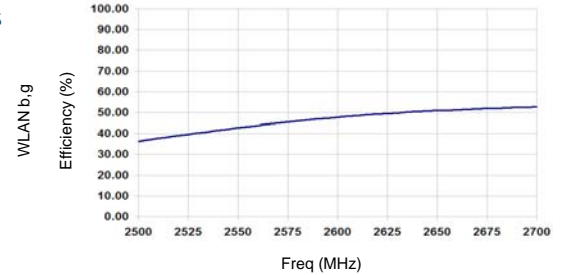
Mechanical Specifications

Dimensions (Antenna)	31.0 x 6.9 x 4.3 mm (Antenna); 45.0 x 11.3 x 0.8 mm (PCB)
Weight	1.6 g
Cable / Connector	U.FL cable/connector; Contact Ethertronics for details
Cable Length	150 mm, 300mm 450mm, 600mm available

VSWR



Efficiencies



Antenna Radiation Patterns

Typical Performance

