

Part No. 9000440

GPS/GLONASS/Beidou/Galileo FPC Antenna

1.560 GHz, 1.575 GHz, 1.598 GHz, 1.606 GHz

Supports: Tracking, Smart Home, Agriculture, Automotive, Healthcare, Digital Signage, Wearables, Industrial Devices



Ethertronics' embedded GNSS Antenna delivers high RF performance and functionality in M2M designs where a more standard GPS patch approach is not possible. This innovative antenna provides compelling advantages for GNSS enabled M2M / IoT applications such as vehicle tracking or asset tracking. Based on a flexible substrate, this GNSS antenna can maintain high efficiency in various device configurations. In addition, the 9000440 antenna can be integrated easily to the end product.

GPS / GLONASS / Beidou / Galileo FPC Antenna

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KEY BENEFITS

Reduced Costs and Time-to-Market

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

Quicker Time-to-Market

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Reliability

Products are the latest RoHS version compliant.

APPLICATIONS

- Embedded design
- POS, Headsets, Tablets
- Gateway, Access Point
- Handheld
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- OBD-II

Electrical Specifications

Typical characteristics with 150 mm cable, antenna is mounted directly on plastic material.

Frequency (GHz)	1.559 – 1.563	1.575	1.559 – 1.591	1.593 – 1.610
GNSS Bands	Beidou	GPS	Galileo	Glonass
Peak Gain (dBi)	2.4	2.4	2.5	2.5
Efficiency (%)	49	47	50	46
VSWR	< 2.3:1			
Polarization	Linear			
Radiation Pattern	Omni-directional			
Feed Point Impedance	50 Ω unbalanced			

Mechanical Specifications & Ordering Part Number

Ordering Part Number	9000440
Dimensions (mm)	41.0 ± 0.2 length 15.5 ± 0.2 width
Connector Type	U.FL compatible
Weight (grams)	0.5 antenna only
Cable (mm)	150
Operating Temperature Range (°C)	-40~+85



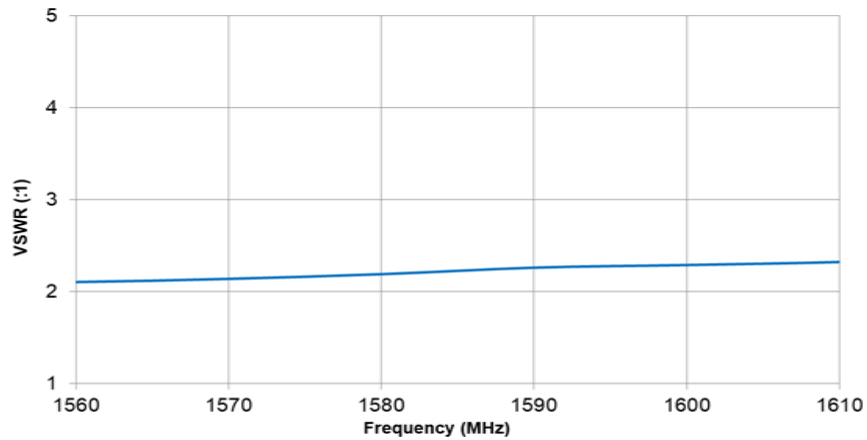
GNSS Ethertronics' FPC Embedded Antenna Specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

VSWR Efficiency, and Peak Gain Plots

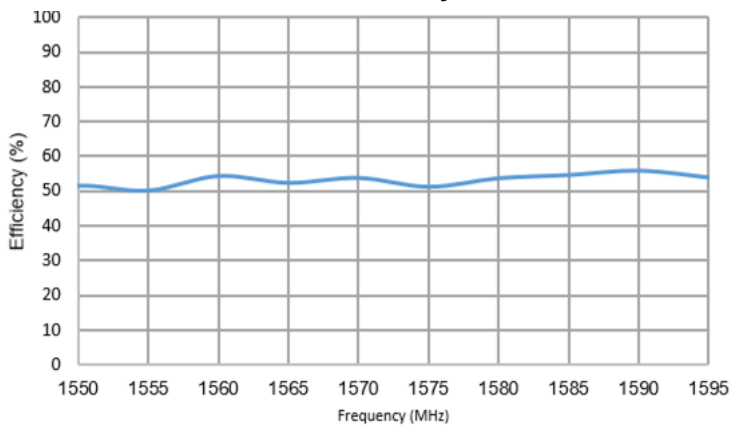
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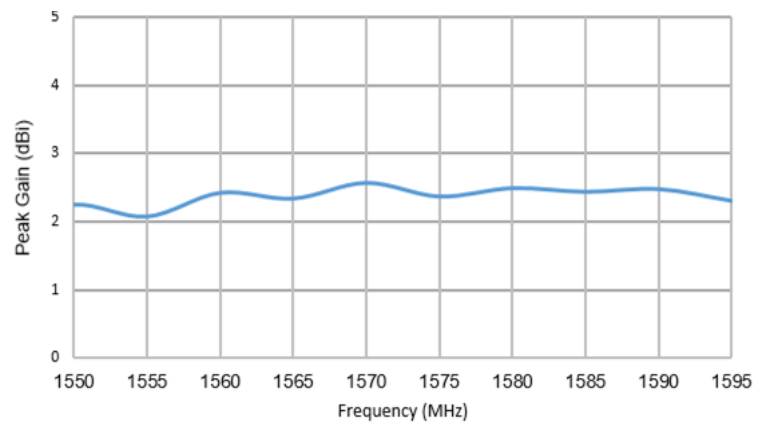
VSWR



Efficiency



Peak Gain

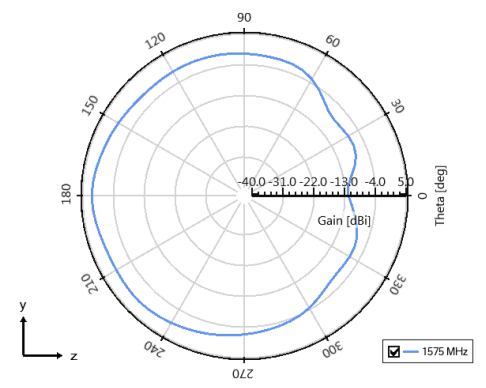
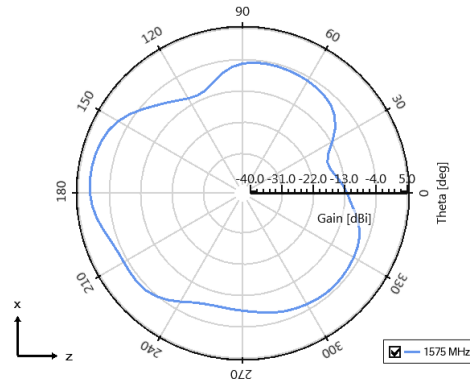
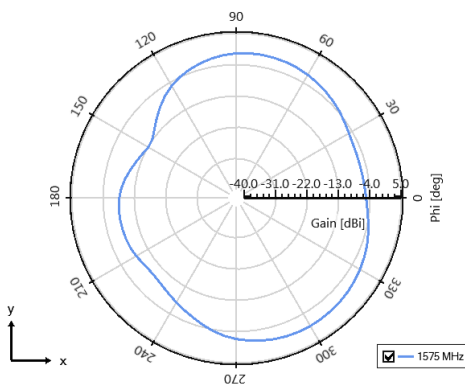
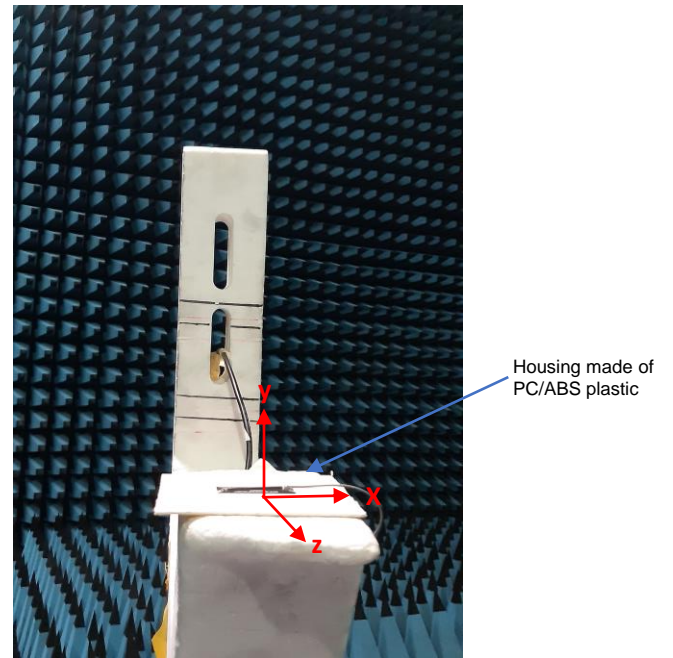
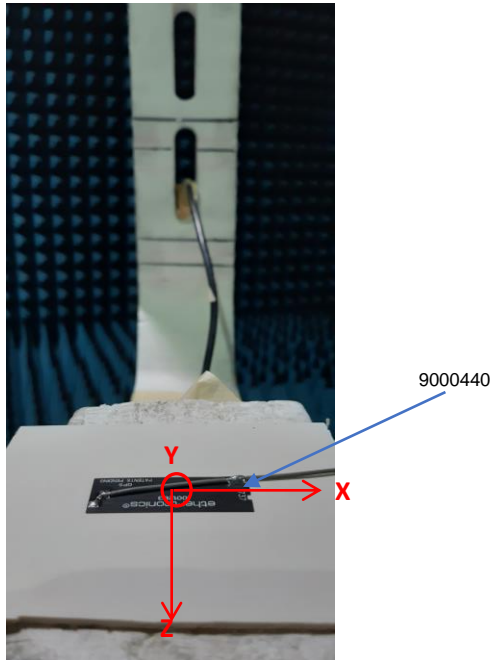




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Mechanical Dimensions

Typical antenna dimensions (mm)

Ordering Part Number	A (mm)	B (mm)	C (mm)	Ø (mm)	Connector
9000440	15.5 ± 0.2	41.0 ± 0.2	150.0 ± 3.0	1.13 ± 0.2	u.fl compatible

