ethertronics®

Part No. 9000984-XLPDNB
External NB-IoT/LoRa/Sigfox Antenna

790-960MHz

Ethertronics' series of External Antennas deliver on the key needs of device designers for higher functionality and performance in access points.
Small form factor and wall mount fixture, ideal to offer outdoor areas coverage.

Extensive RF Experience
Our external 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 encompass an integrated network of design centers that provide local customer support.

External NB-IoT/LoRa/Sigfox Antenna
790/960 MHz

Electrical Specifications
Typical Characteristics in Free Space and on a connected to a 200x200mm ground plane and under PC/ABS plastic cover

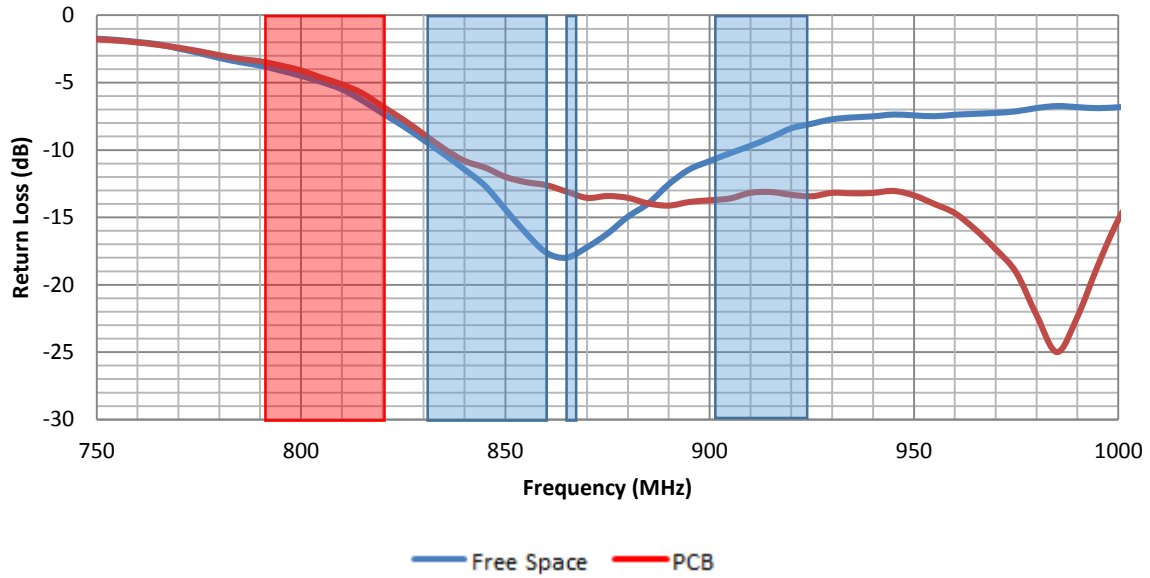| Frequency bands	Free Space			200x250mm PCB		
	790MHz	868MHz	915MHz	790MHz	868MHz	915MHz
Return loss (dB)	<-4	<-17	<-9	<-4	<-13	<-13
Efficiency (%)	40	85	75	40	80	82
Peak Gain (dBi)	2.2			3.4		
Impedance (Ω)	50					
Working Temperature	-40ºC to +120ºC					

Mechanical Specifications

Dimensions	195 mm x 12.98 mm
Connector	SMA Male (RP-SMA available upon request)
Hinge	Foldable 90 degrees at the hinge level
Color	Black (other colors available upon request)

KEY BENEFITS

Quicker Time-to-Market
Standard part means fewer design changes
Simple implementation
Easy Assembly using RP-SMA or SMA

Best in Class Performance
External antennas are designed to maintain high efficiency in a variety of device configurations

Superior Network Coverage
Better network coverage means more reliable wireless connections

Great Flexibility
Standard connector makes for easy set-up

APPLICATIONS
• Gateways
• Metering
• IoT devices
• TVs

External NB-IoT/LoRa/Sigfox antenna specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.
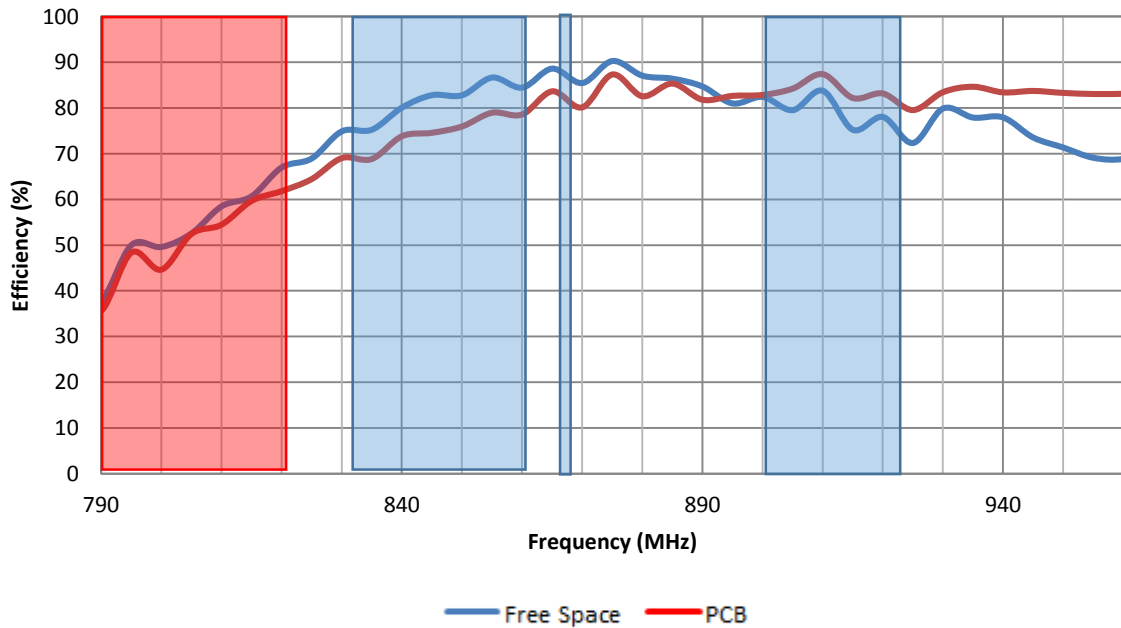**Below are the typical performances**

Return loss

Typical Characteristics (measurements taken in Free Space and on a 200 x 200 mm ground plane)

Efficiency

Typical Characteristics (measurements taken in Free Space and on a 200 x 200 mm ground plane)

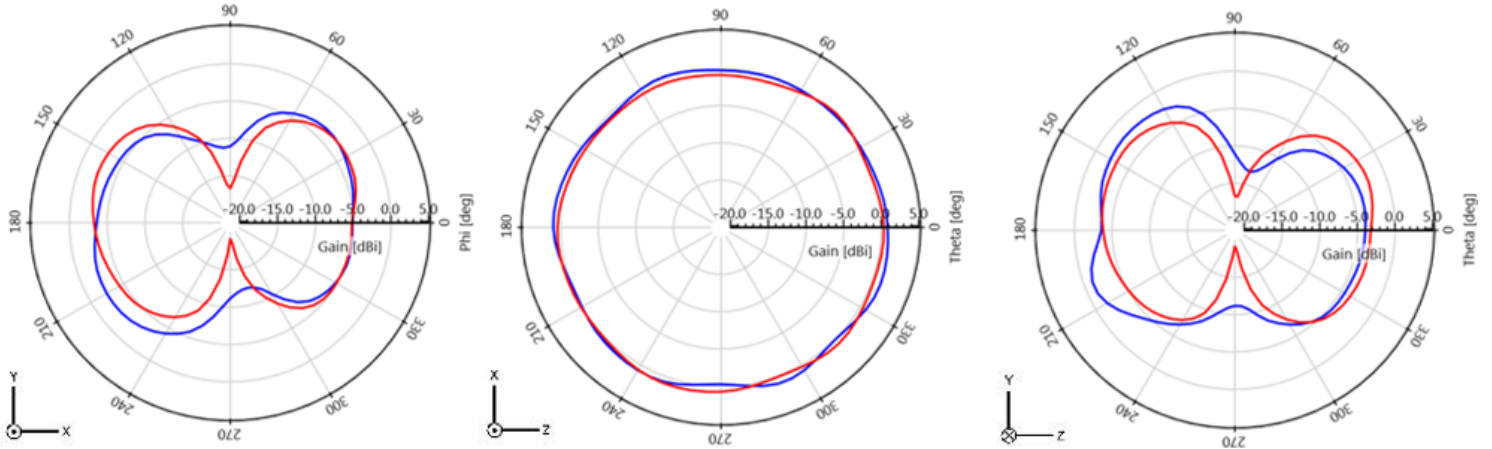*All dimensions provided in this document are for informational purposes only

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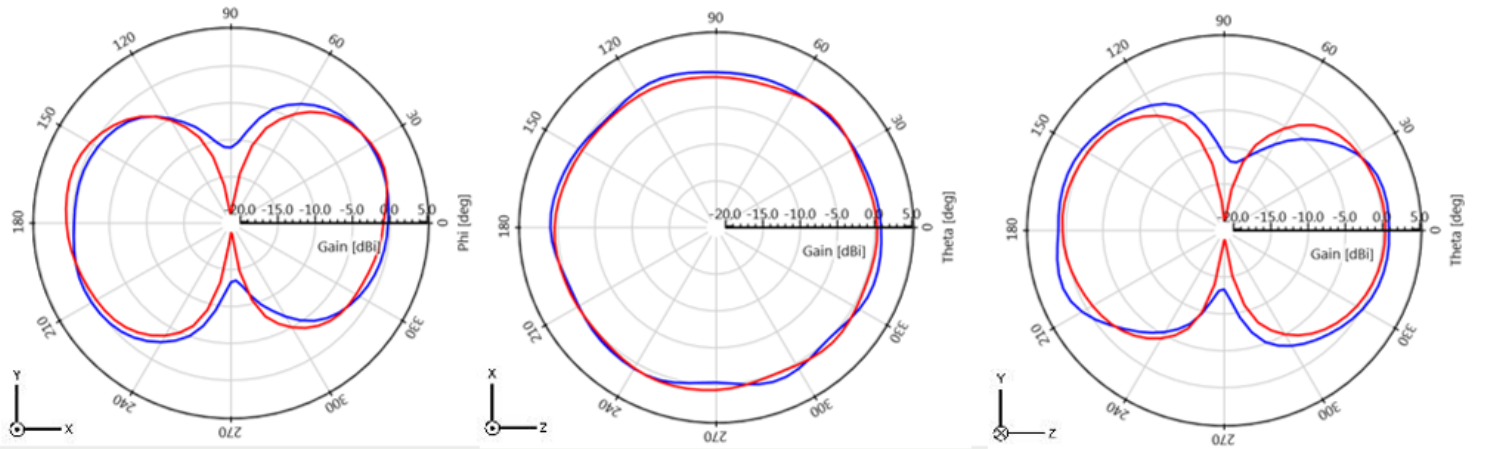**Below are the typical performances**

Radiation pattern

Typical Characteristics (measurements taken in Free Space and on a 200 x 200 mm ground plane)

- **At 790MHz**

- **At 850MHz**

- **At 950MHz**