

Part No. 9000984-XLPDNB

External ISM Antenna

790 / 868 / 915 MHz

Supports: NB-IoT, SigFox, LoRa, Cellular LPWA, RPMA, Tracking, LPWAN, Smart Metering



External ISM Antenna

790 - 960 MHz

KEY BENEFITS

Greater Flexibility

Different connector options upon request. Small form factor and low profile. Independent of ground, the performances are maintained across design.

Quicker Time-to-Market

Standard antenna eliminates design fees, redesign cycle time and minimize risk associated with a customer solution. Quicker time to market.

Reliability

Products are the latest RoHS version compliant

APPLICATIONS

- Medical applications
- Home automation
- Smart metering
- Industrial devices
- IoT
- Healthcare
- Tracking
- NB-IoT
- Sigfox
- LoRa
- Cellular LPWAN
- M2M

Ethertronics family of external antennas are designed to offer the best performances for a wide range of applications. This sleek External ISM antenna is specifically designed for industrial communication implementation requiring a plug-and-play solution.

Global Operations & Design Support

Ethertronics' global operations supports an integrated network of design centers that can take projects from concept to production.

Electrical Specifications

Typical Characteristics in Free Space and on a connected to a 200 x 200 mm ground plane and under PC/ABS plastic cover

Frequency	790 MHz	868 MHz	915 MHz
Mounting	Off Ground / On Ground		
Return Loss	-4 / -4	-17 / -13	-9 / -13
Efficiency (%)	40 / 40	85 / 80	75 / 82
Peak Gain (dBi)	2.2		3.4
Impedance (Ω)	50		
Working Temperature	-40°C to +120°C		

Mechanical Specifications & Ordering Part Number

Ordering Part Number	9000984-XLPDNB
Size (mm)	196 x 13
Connector	SMA Male (RP-SMA available upon request)
Hinge	Foldable 90 degrees at the hinge level
Color	Black (other colors available upon request)



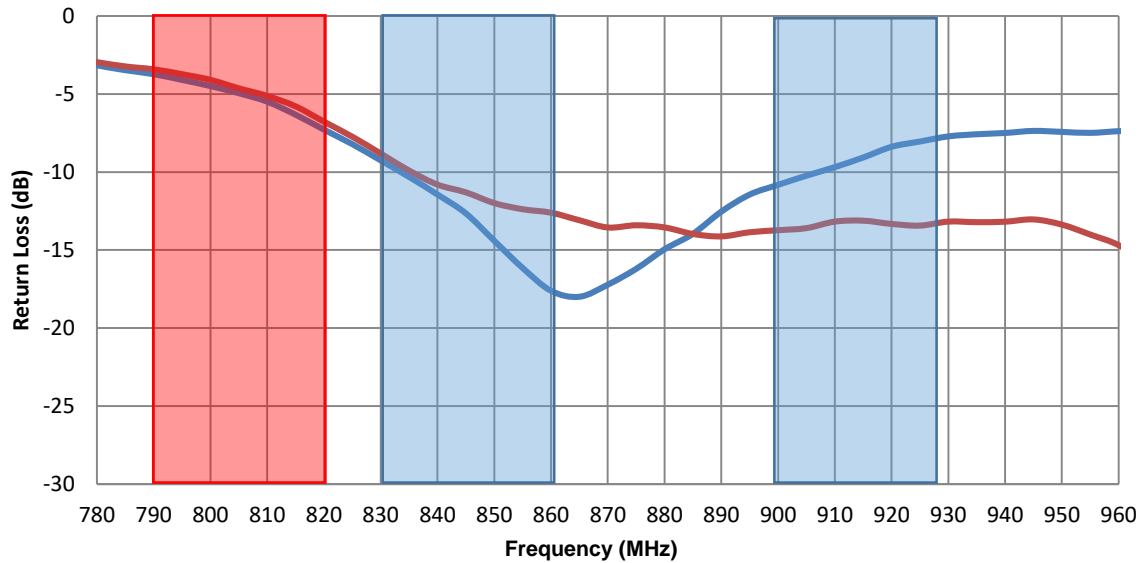
External ISM/LoRa/Sigfox antenna specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

Return Loss and Efficiency Plots

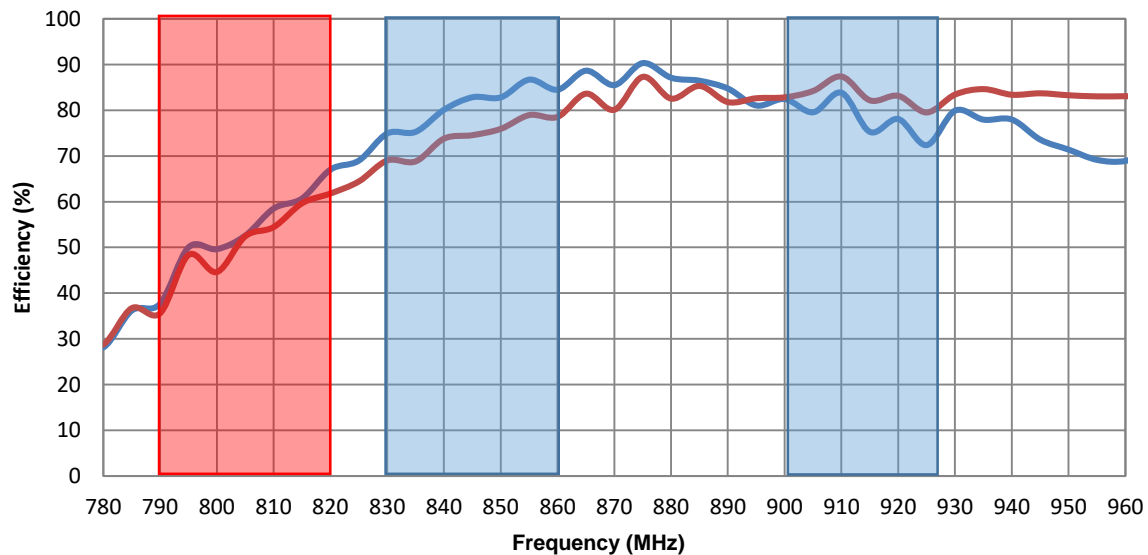
Typical Characteristics (measurements taken in Free Space and on a 200 x 200 mm ground plane)

- ☒ — 9000984-XLPDNB (Free Space)
- ☒ — 9000984-XLPDNB (200 x 200 mm ground plane)

Return Loss



Efficiency



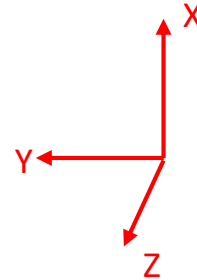


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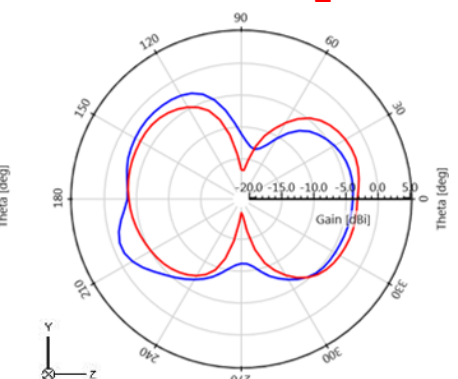
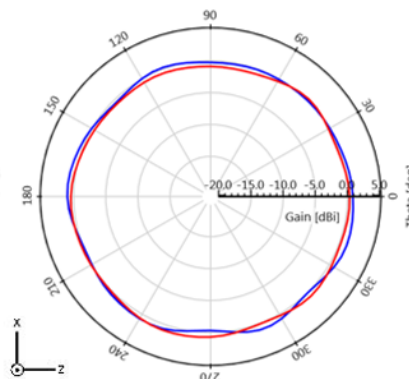
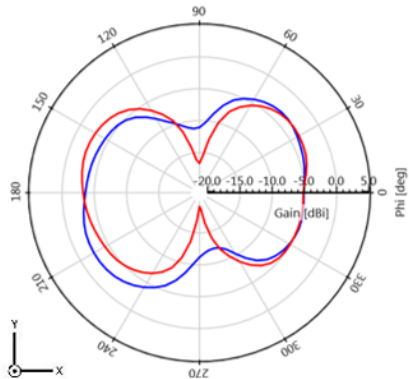
Antenna Radiation Patterns

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

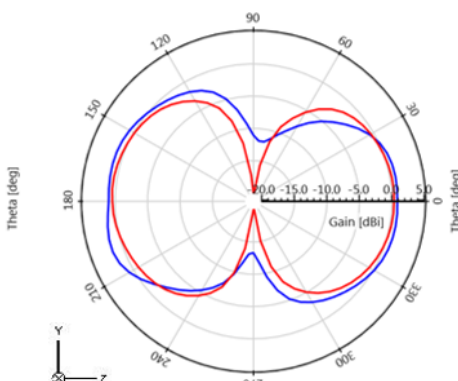
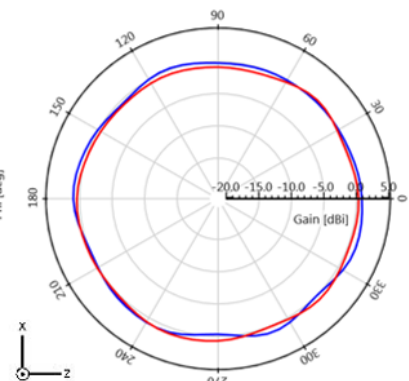
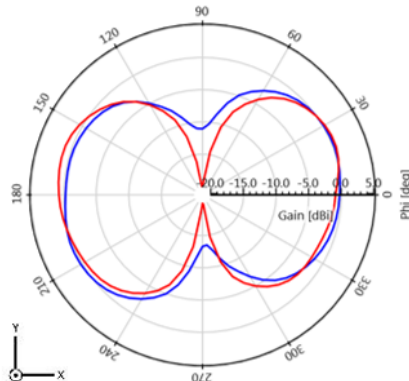
- 9000984-XLPDNB (Free Space)
- 9000984-XLPDNB (200 x 200 mm ground plane)



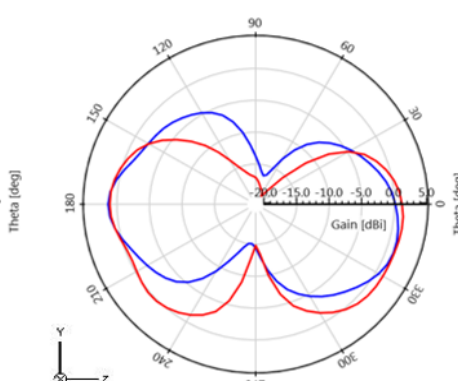
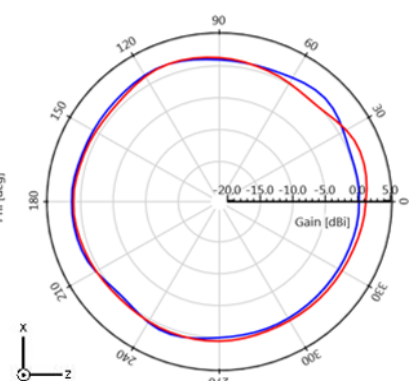
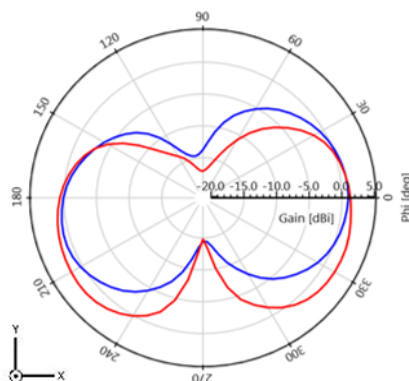
Measured at 790 MHz



Measured at 850 MHz



Measured at 950 MHz





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Antenna Dimensions

Typical antenna dimensions, in mm.

Part Number	A (mm)	B (mm)	C (mm)	D (mm)	Connector
9000984-XLPDNB	196 ± 3.0	13.0 ± 0.1	6.01 ± 0.1	165 ± 2.0	SMA (Male)

