



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

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

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	-40°C to +120°C					

Mechanical Specifications

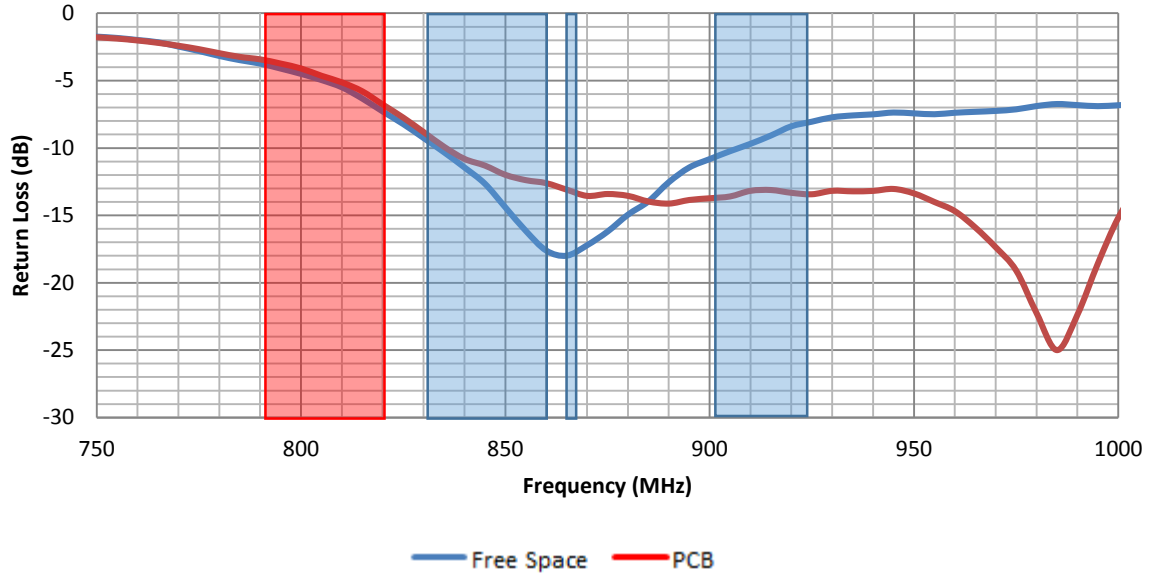
Dimensions	195 mm x 12.98 mm
Connector	SMA Male (RP-SMA available upon request)
Hinge	Foldable 90 degrees at the hinge level
Color	Black (other colors available upon request)



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

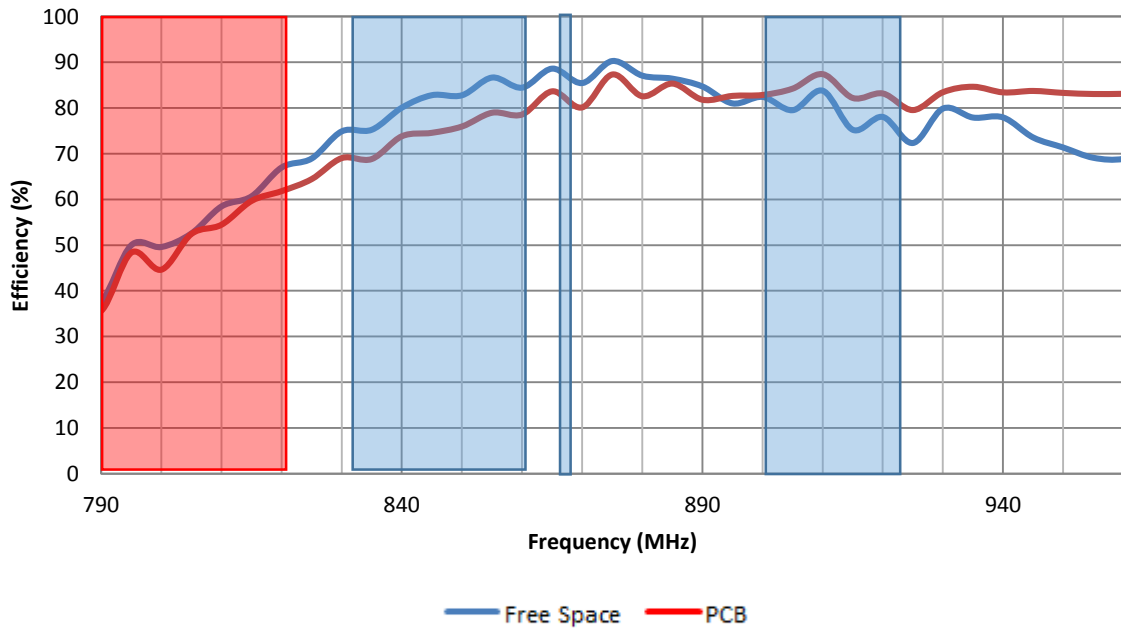
Return loss

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)



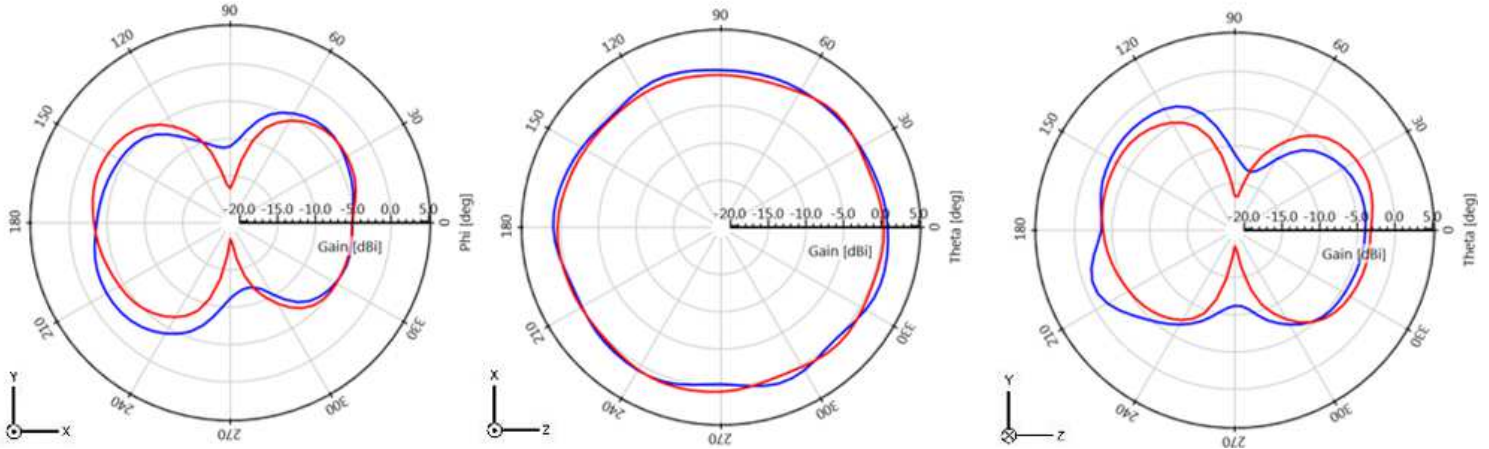
*All dimensions provided in this document are for informational purposes only

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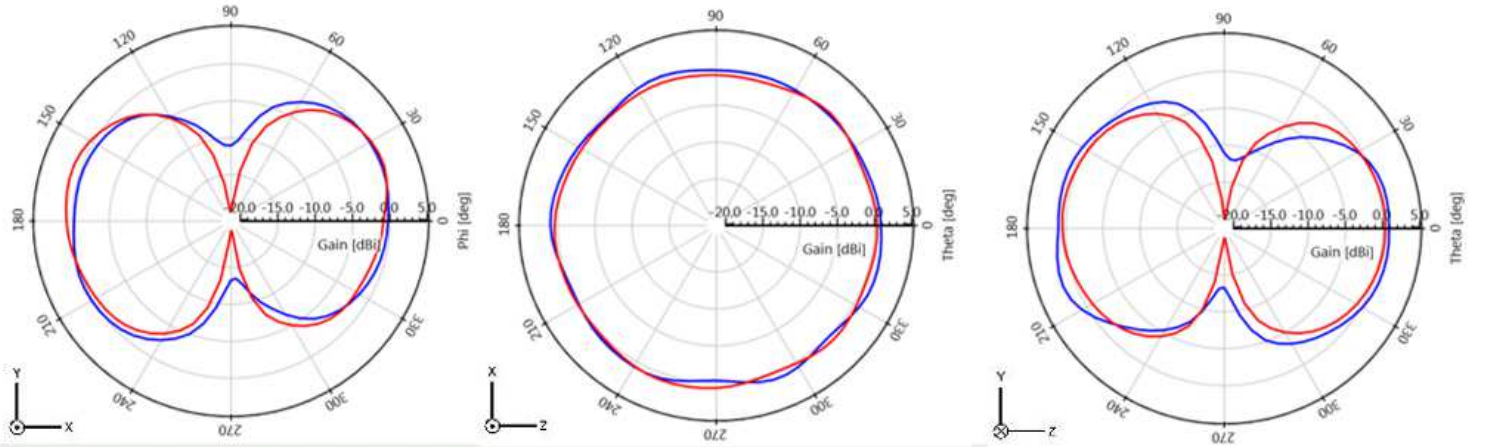
Radiation pattern

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

- **At 790MHz**



- **At 850MHz**



- **At 950MHz**

