

Part No. X9001248-4GMSMB1000R

External Magnetic Mount LTE Antenna

700 / 800 / 900 / 1800 / 2100 / 2600 MHz

Supports: LTE Cat 1, LTE-M, SigFox, LoRa, NB-IoT, M2M applications, 2G, 3G, Cellular



Ethertronics family of External antennas are designed to offer the best performances for a wide range of applications. X9001248 is specially developed to deliver stable Gain across 2G, 3G, 4G cellular bands.

This antenna is designed to be mounted on a ground plane for optimal performance

Electrical Specifications

Typical Characteristics in Free Space and on 300 x 250 mm ground plane

Frequency (MHz)	Free space		On 300 x 250 mm Ground Plane	
	698 - 960	1710 - 2690	698 - 960	1710 - 2690
Return Loss	< -5.2 dB	< -5.8 dB	< -5.2 dB	< -6.0 dB
Average Peak Gain	-0.5 dBi	-0.2dBi	1.8 dBi	1.9 dBi
Average Efficiency	33 %		54%	36%
Impedance	50 ohm			

External Magnetic Mount LTE Antenna

Low Band : 698 – 960 MHz

High Band : 1170 – 2690 MHz

KEY BENEFITS

Quicker Time-to-Market

Standard part means fewer design changes with, 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

Great Flexibility

Standard connector to makes easy set-up

RoHS Compliant

Products are the latest RoHS version compliant.

APPLICATIONS

- Telematics
- Smart metering
- Home automation
- Smart city
- Structural health monitoring
- Predictive maintenance
- M2M devices

Mechanical Specifications & Ordering Part Number

Ordering Part Number	X9001248-4GMSMB1000R
Dimensions (mm)	112.0 height 29.0 base diameter
Connector Type	SMA Male
Weight (grams)	50.0
Mounting	Magnetic
Color	Black
Cable	RG-174 / U (1 meter)
Ingress Protection	IP65
Operating Temperature (°C)	-40 to + 70
Radome Material	TPE

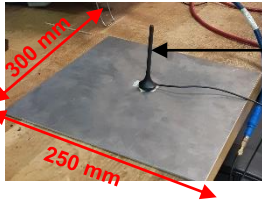


LTE Magnetic mount External antenna specifications

Ethertronics produces a wide variety of standard and custom antennas to meet user needs

Return Loss, Efficiency and Peak Gain Plots

Typical performance measured in Free Space and on a 300x250mm ground plane

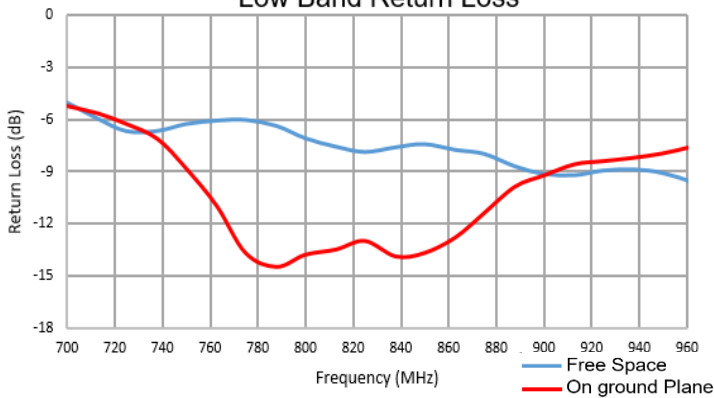


X9001248-4GMSMB1000R

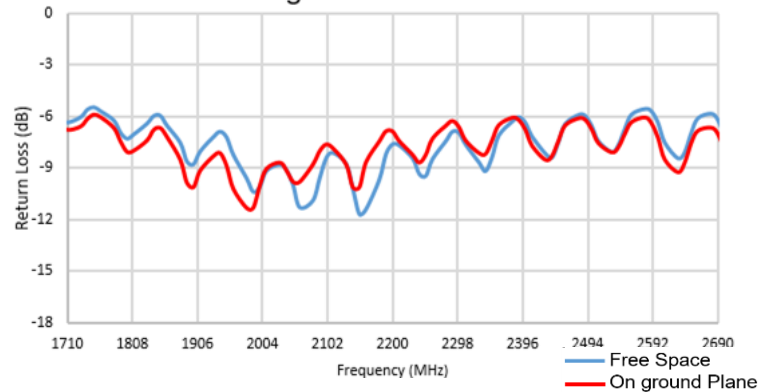


X9001248-4GMSMB1000R

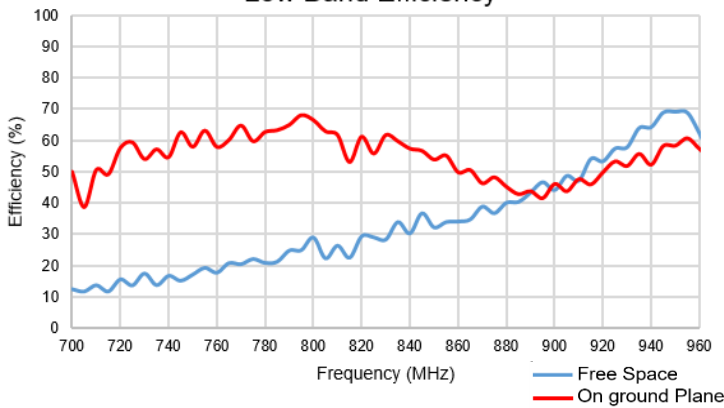
Low Band Return Loss



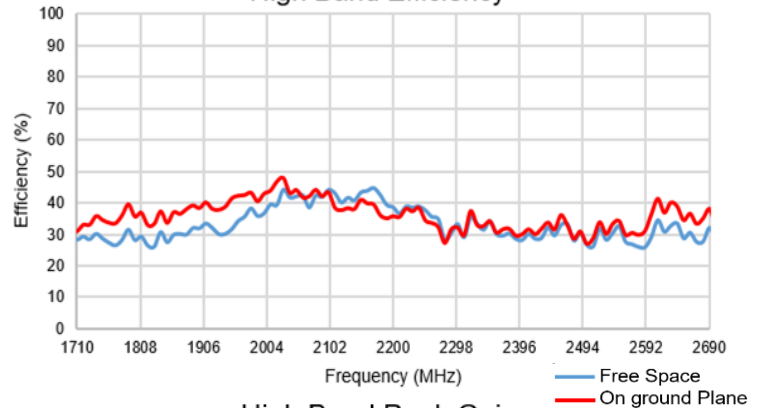
High Band Return Loss



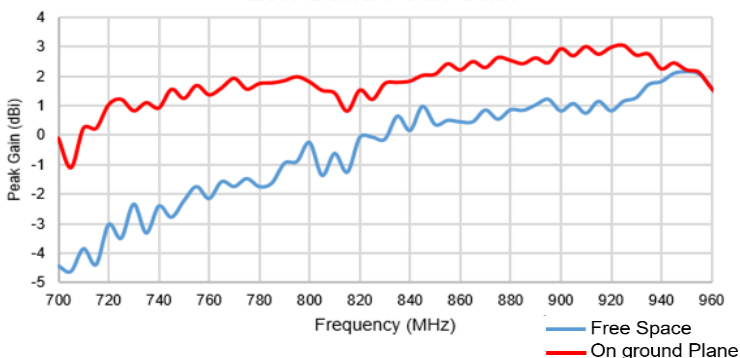
Low Band Efficiency



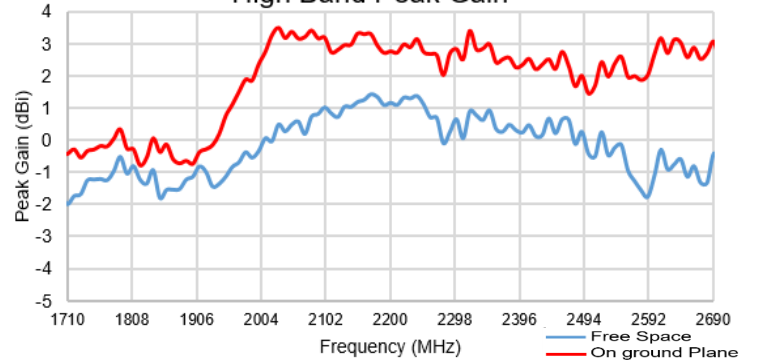
High Band Efficiency



Low Band Peak Gain



High Band Peak Gain





LTE Magnetic mount External antenna specifications

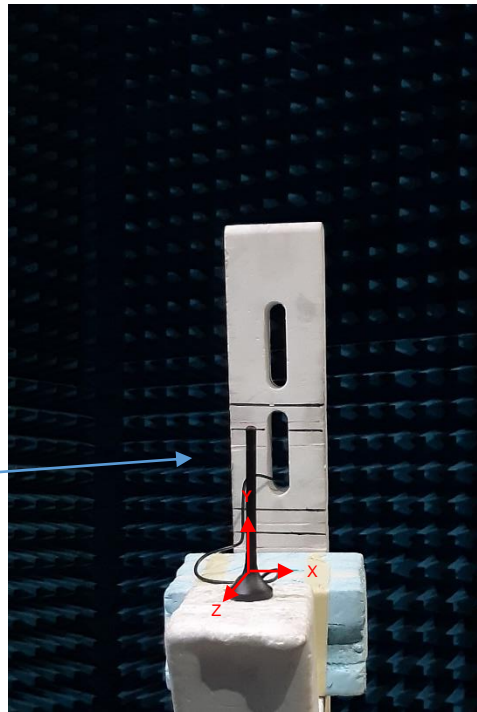
Ethertronics produces a wide variety of standard and custom antennas to meet user needs

Radiation Patterns Plots

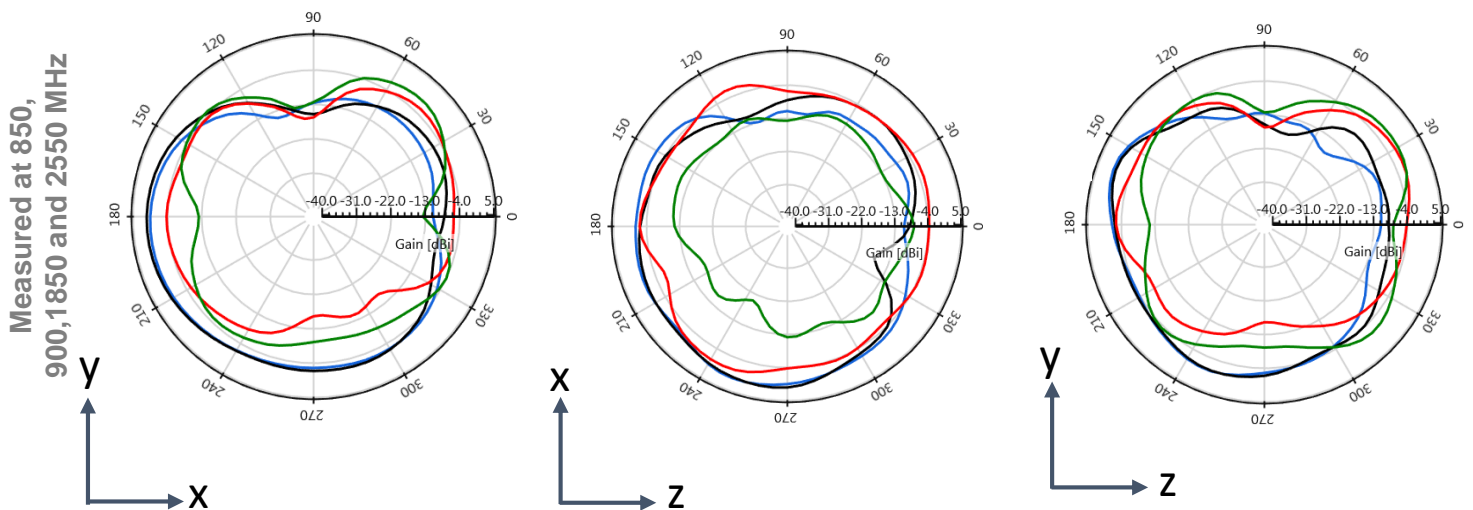
Typical performance measured in Free Space
Measured at 850, 900, 1850 and 2550 MHz

Free Space

X9001248-4GMSMB1000R



850 MHz
900 MHz
1850 MHz
2550 MHz



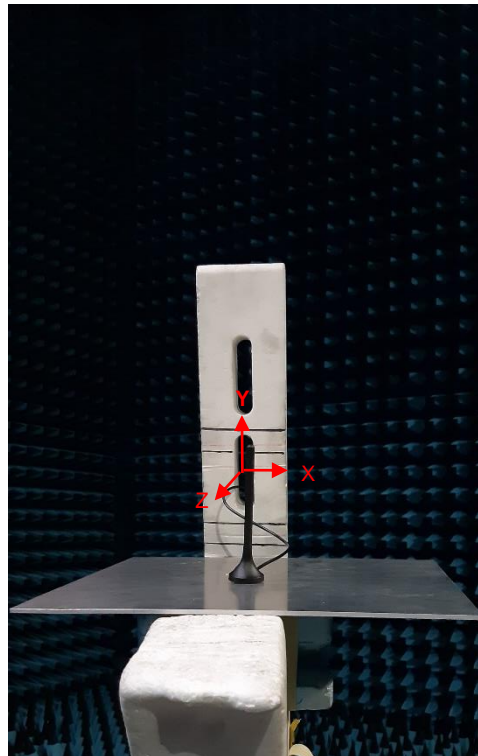


LTE Magnetic mount External antenna specifications
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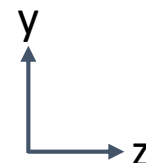
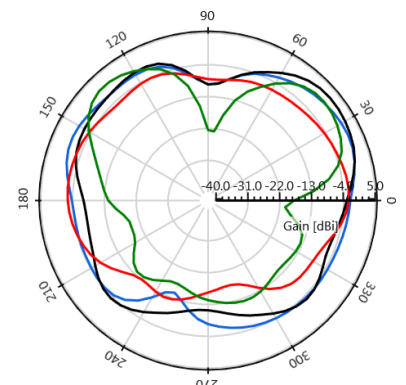
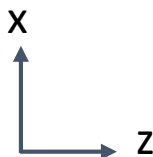
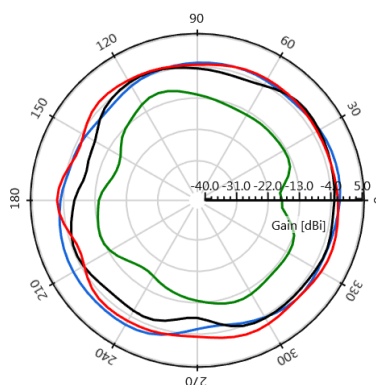
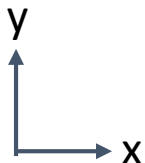
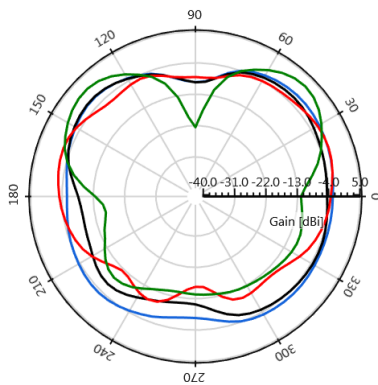
Radiation Patterns Plots

Typical performance measured on 300 x 250 mm ground Plane
Measured at 850, 900, 1850 and 2550 MHz

On Ground Plane



Measured at 850,
900, 1850 and 2550 MHz



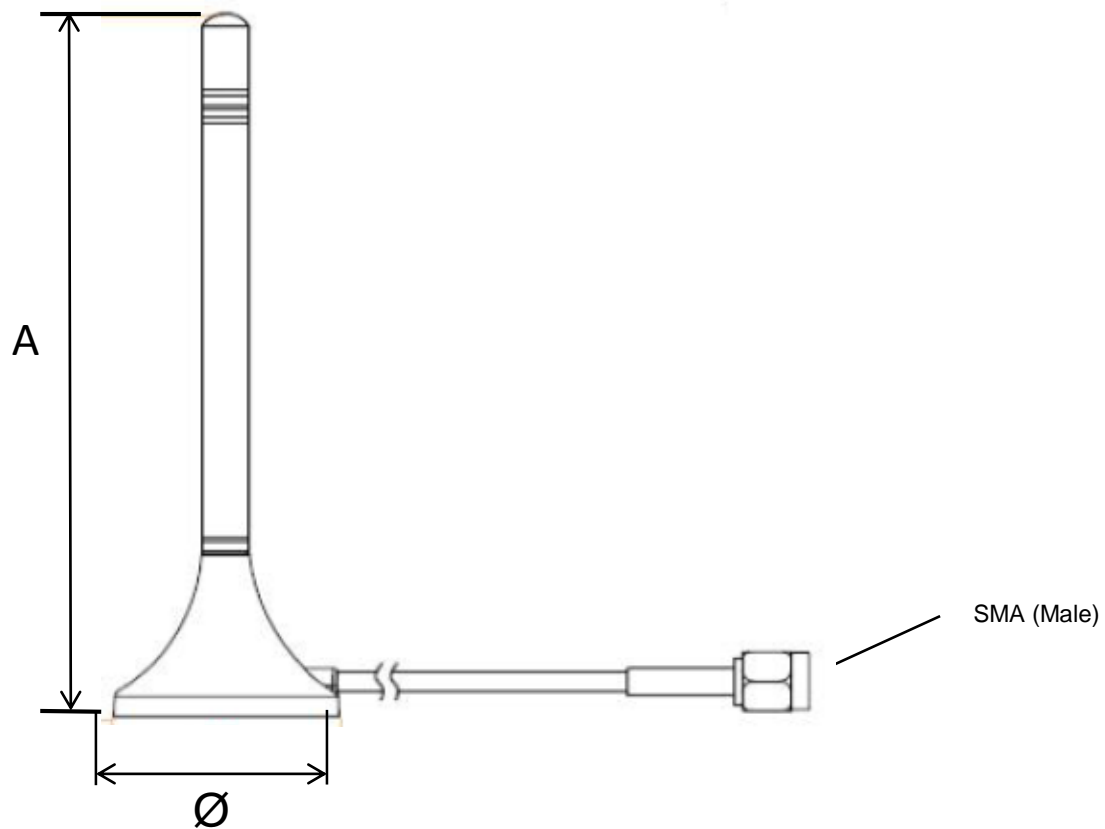


LTE Magnetic mount External antenna specifications
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Mechanical Specifications

Typical antenna dimensions in mm

Part Number	A (mm)	Ø (mm)	Connector
X9001248-4GMSMB1000R	112.0	29.0	SMA Male



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