



Part No. X1005243-LGA2SA10A1

GPS/GLONASS (active) & LTE 2-in-1 External Antenna

(1575 / 1602) MHz + (698-960; 1710-2170; 2300-2690) MHz

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



GPS/GLONASS (active) & LTE External Antenna

(1575 / 1602) MHz
(698-960; 1710-2170; 2300-2690) MHz

KEY BENEFITS

Reduced Costs and Time-to Market

Standard antennas eliminate design fees and cycle time associated with a custom solution, getting products to market faster.

High Performance

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

Reliability

Products are the latest RoHS & REACH version compliant.

APPLICATIONS

- Remote Monitoring
- Point of Sale
- IoT
- Gateway
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- Logistics
- Energy
- Retail

Ethertronics' 2-in-1 GPS/GLONASS (active) and LTE external antenna delivers on the key needs of device designers for higher functionality and performance.

Electrical Specifications

Typical characteristics in free-space

Frequency (GPS/GLONASS)	1575 MHz	1602 MHz	
Gain at Zenith	1.0 dBi	1.0 dBi	
VSWR	2.0:1 max		
Impedance	50 Ω		
LNA Electrical Properties			
Frequency (GPS/GLONASS)	1575 MHz	1602 MHz	
VSWR	2.0:1 max		
Impedance	50 Ω		
Antenna Gain (@3.3 V)	28 dB / 25 dB min.		
DC Power Input	3~5 V		
Noise Figure	2.5 dB Typ.		
Power Consumption (@ 3.3 v)	9 mA Typ.		
Frequency (LTE)	698~960 MHz	1710~2170 MHz	2300~2690 MHz
Peak Gain	2.7 dBi	1.2 dBi	2.1 dBi
Average Efficiency	35%	29%	30%
VSWR	3.7:1 max	3.7:1 max	3.0:1 max
Impedance	50 Ω		



GPS/GLONASS (active) & LTE 2-in-1 External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

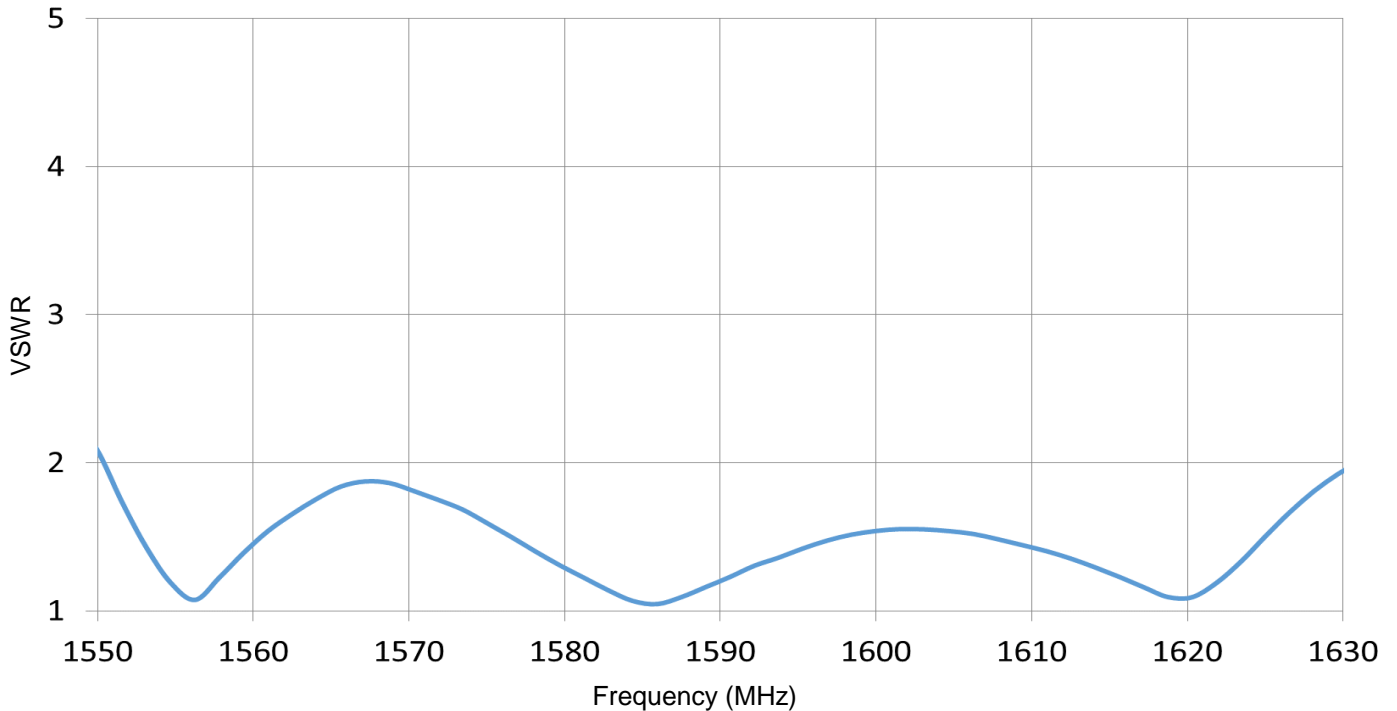
Mechanical Specifications

Ordering Part #	X1005243-LGA2SA10A1
Dimensions (mm)	51.4 (Diameter) x 10.5 (Height)
Mounting Type	Foam Adhesive
Operating Temperature °C	-40 ~ +85
Housing Material & Color	PC (Black)
Cable	Length: 1M Type: RG-174
Connector	GPS-GLONASS SMA(M) LTE SMA(M)
Waterproof	IPX5

VSWR Plots (GPS/GLONASS 1575 & 1602 MHz)

Typical characteristics in free-space

VSWR:



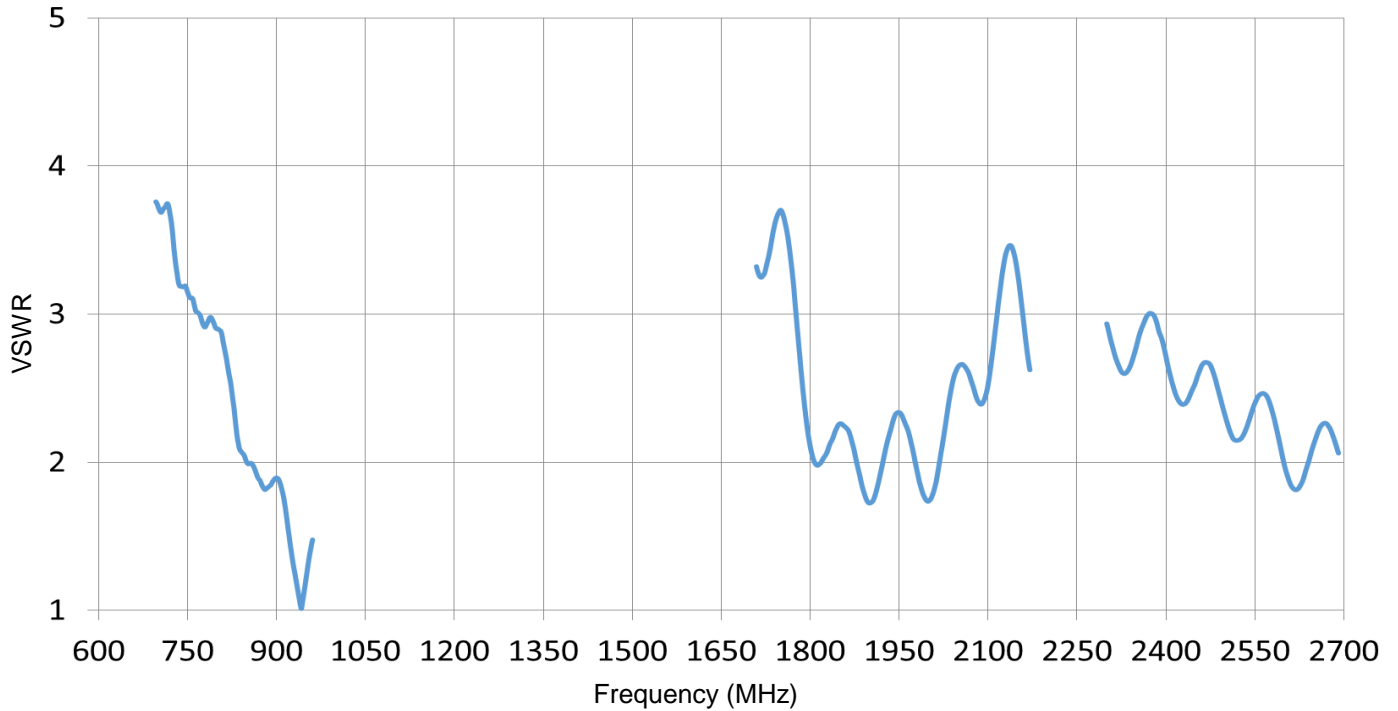


GPS/GLONASS (active) & LTE 2-in-1 External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

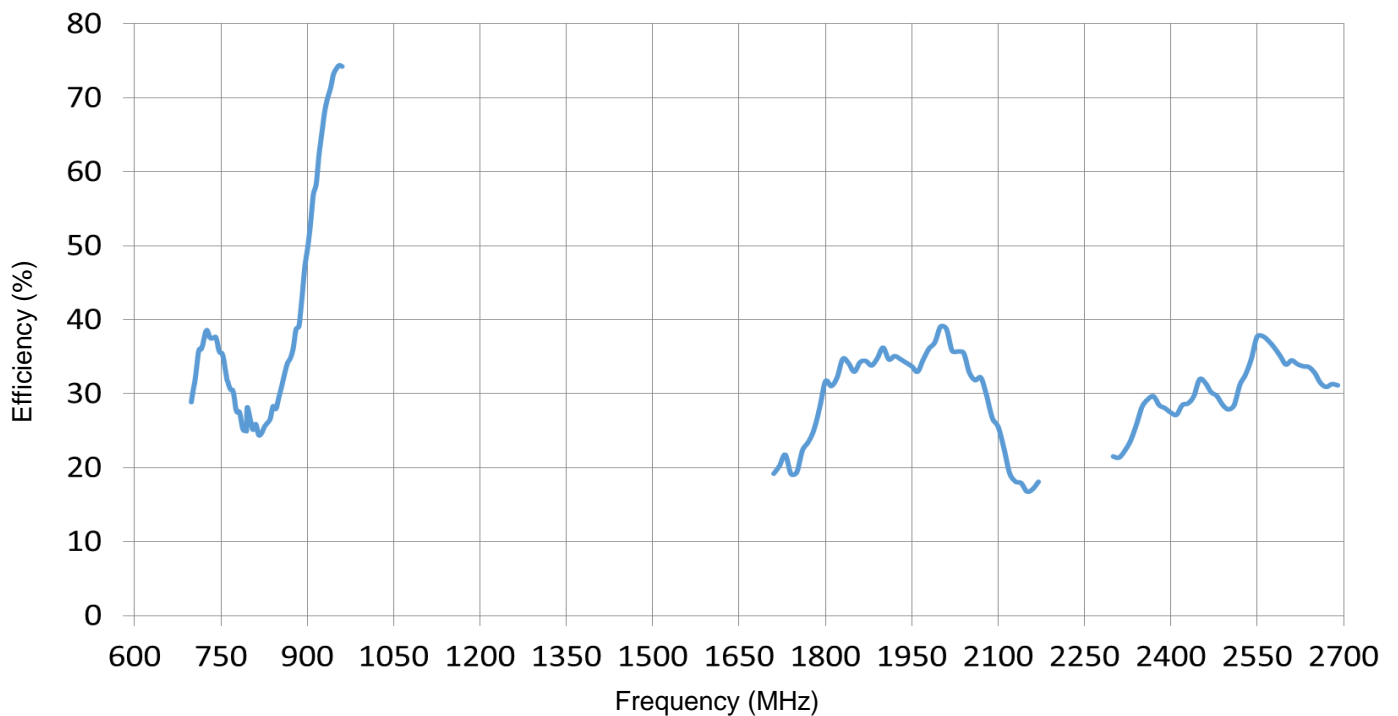
VSWR, Efficiency Plots (LTE 698-2690 MHz)

Typical characteristics in free-space

VSWR:



Efficiency:



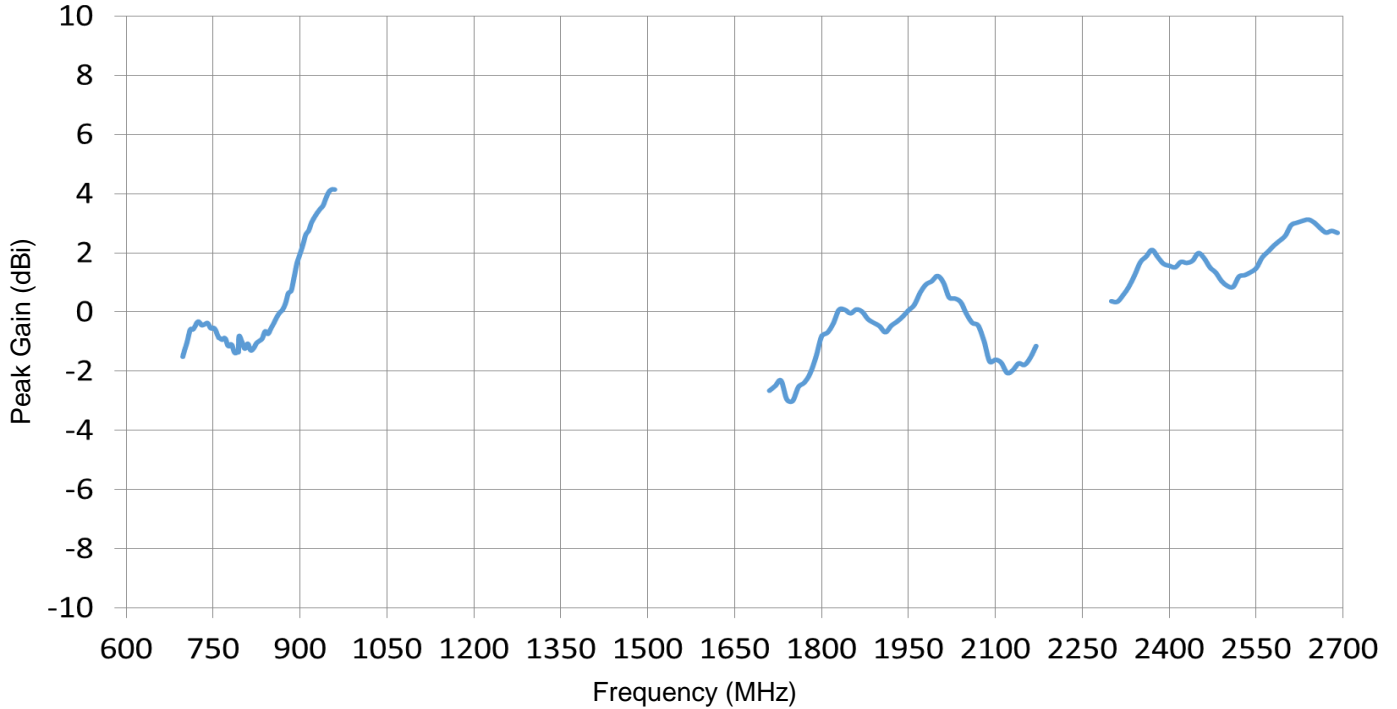


GPS/GLONASS (active) & LTE 2-in-1 External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

Peak Gain Plots (LTE 698-2690 MHz)

Typical characteristics in free-space

Peak Gain:

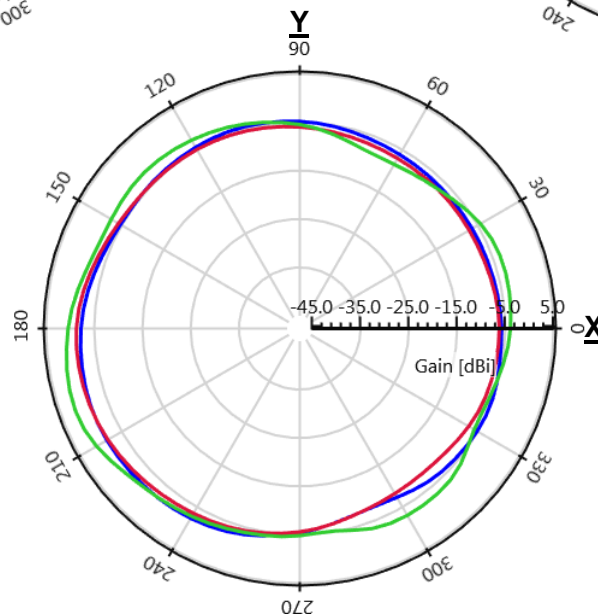
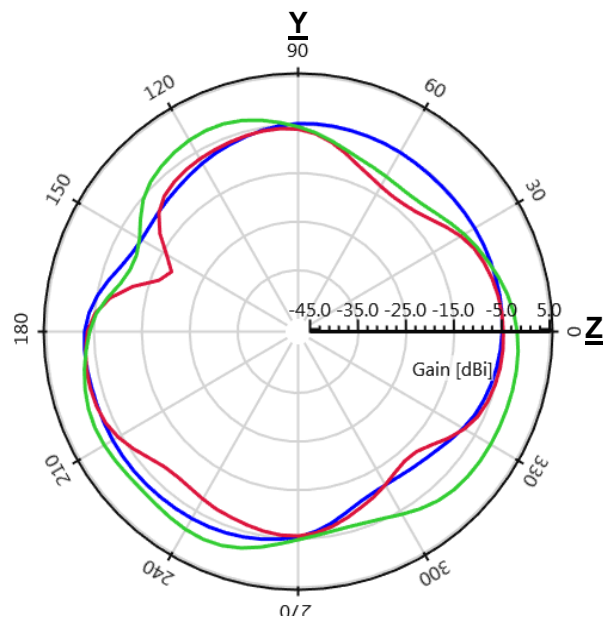
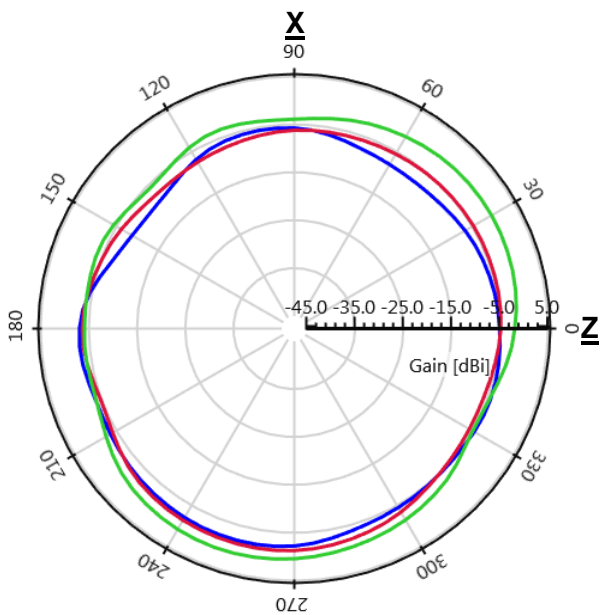
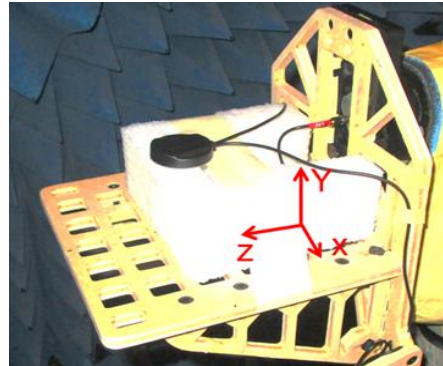




GPS/GLONASS (active) & LTE 2-in-1 External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

2D Radiation Patterns (LTE 698-960 MHz)

Typical characteristics in free-space

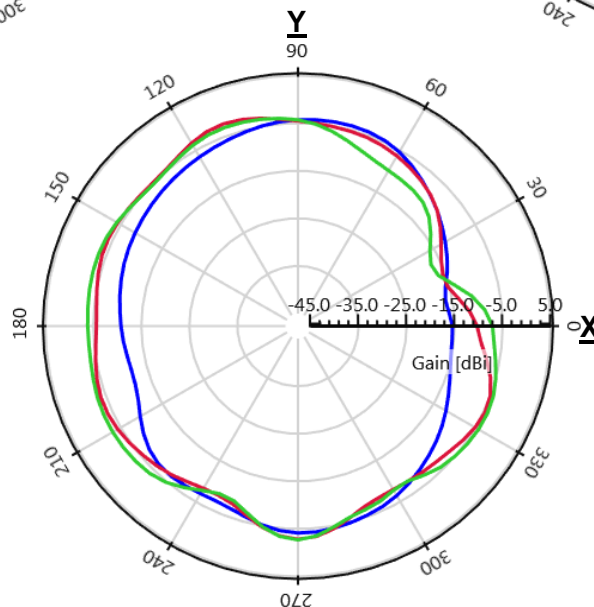
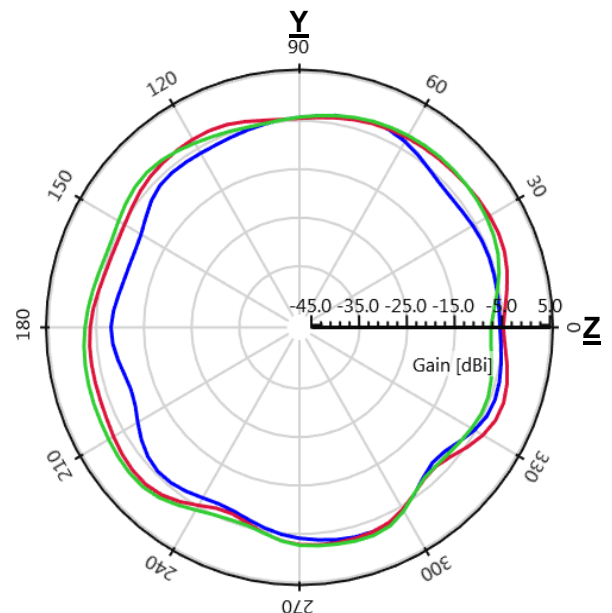
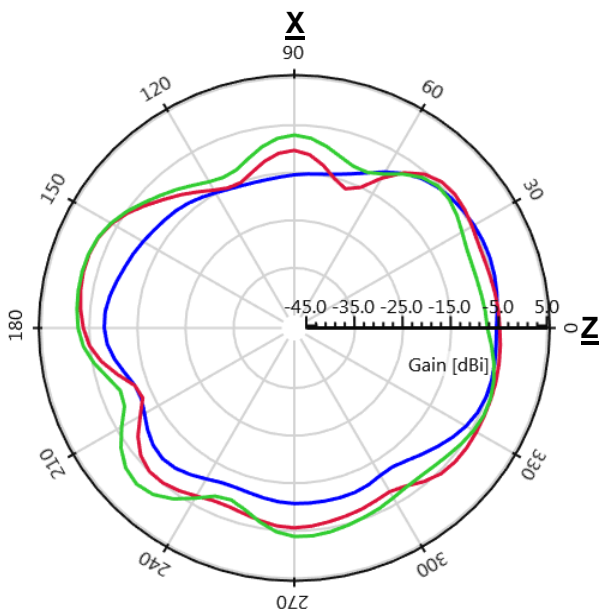
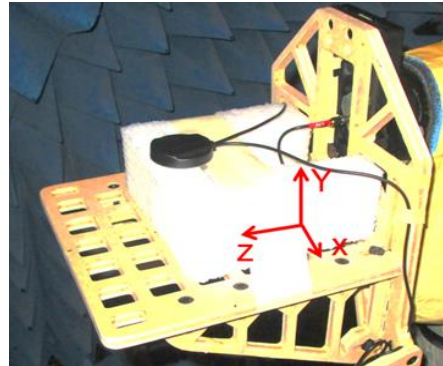
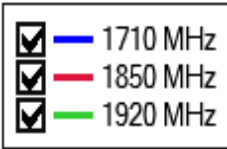




GPS/GLONASS (active) & LTE 2-in-1 External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

2D Radiation Patterns (LTE 1710-2170 MHz)

Typical characteristics in free-space

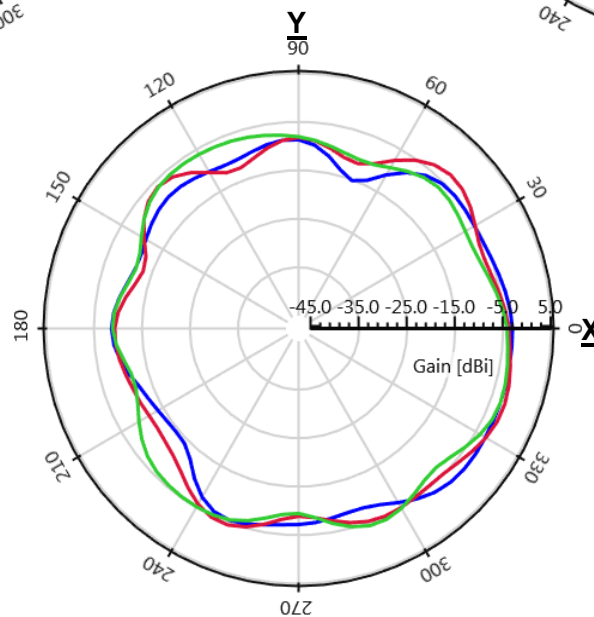
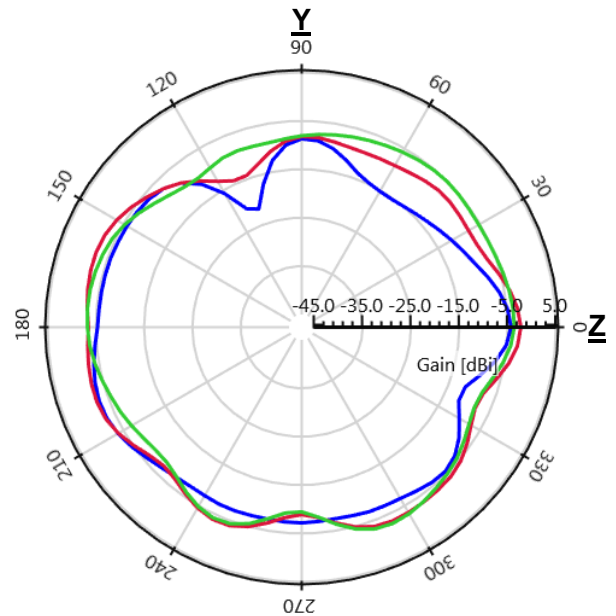
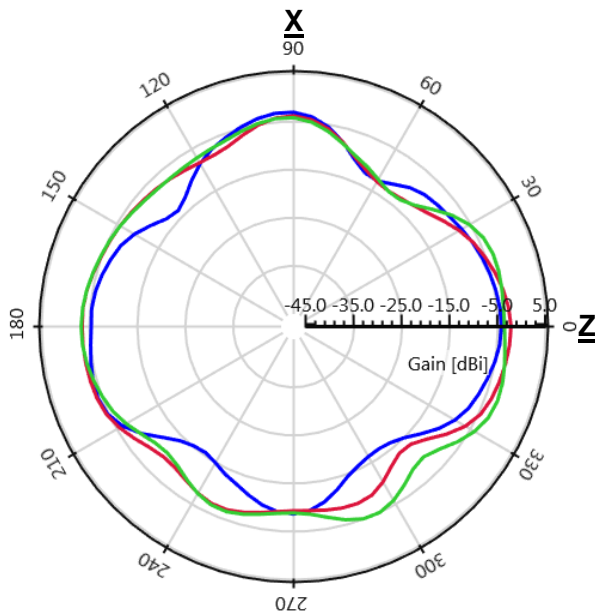
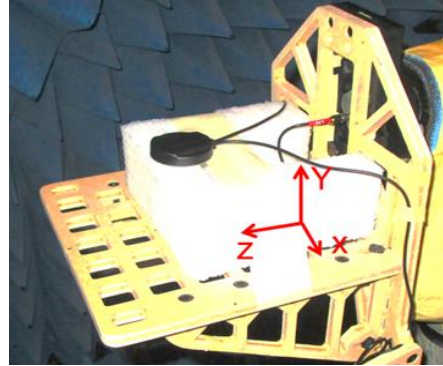




GPS/GLONASS (active) & LTE 2-in-1 External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

2D Radiation Patterns (LTE 2300-2690 MHz)

Typical characteristics in free-space





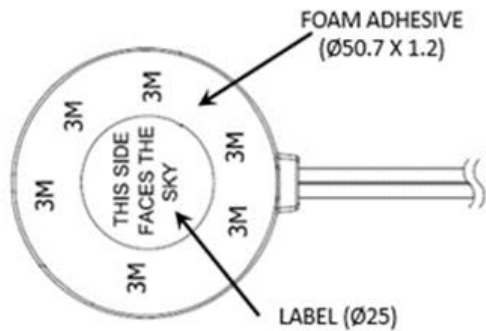
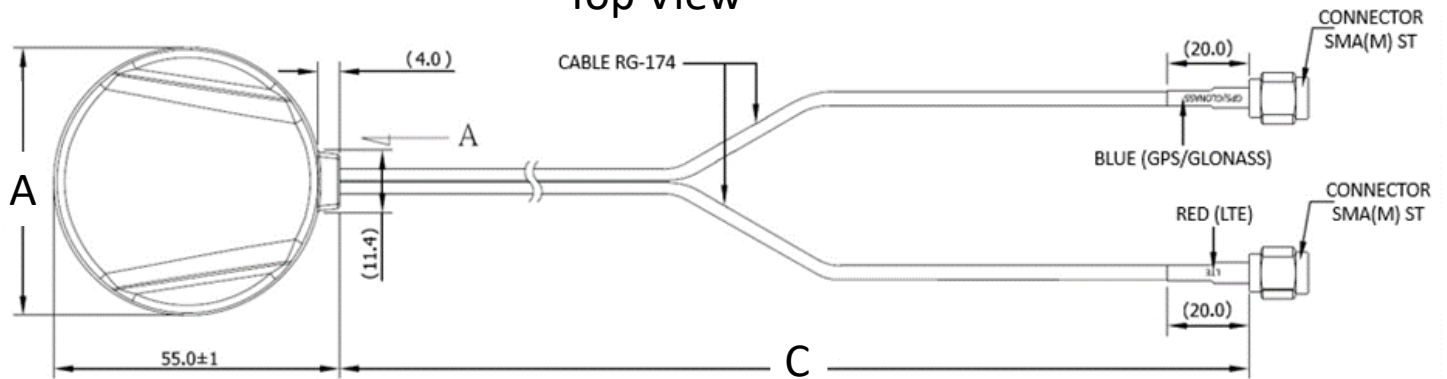
GPS/GLONASS (active) & LTE 2-in-1 External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

Mechanical Dimensions

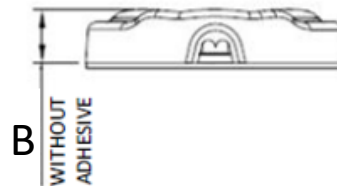
Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)
X1005243-LGA2SA10A1	51.4 ± 0.3	10.5 ± 1.0	1000 ± 40.0

Top View



Bottom View



Side View

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Antennas](#) category:

Click to view products by [Kyocera AVX](#) manufacturer:

Other Similar products are found below :

[GAN30084EU](#) [930-033-R](#) [GW17.07.0250E](#) [1513563-1](#) [EXE902SM](#) [APAMPG-117](#) [MAF94383](#) [W3908B0100](#) [W6102B0100](#) [YE572113-30RSMM](#) [108-00014-50](#) [66089-2406](#) [SPDA17RP918](#) [A09-F8NF-M](#) [A09-F5NF-M](#) [RGFRA1903041A1T](#) [W3593B0100](#) [W3921B0100](#) [SIMNA-868](#) [SIMNA-915](#) [SIMNA-433](#) [W1044](#) [W1049B090](#) [A75-001](#) [WTL2449CQ1-FRSMM](#) [CPL9C](#) [EXB148BN](#) [0600-00060](#) [TRA9020S3PBN-001](#) [Y4503](#) [GD5W-28P-NF](#) [MA9-7N](#) [GD53-25](#) [GD5W-21P-NF](#) [C37](#) [MAF94051](#) [MA9-5N](#) [EXD420PL](#) [B1322NR](#) [QWFTB120](#) [MAF94271](#) [MAF94300](#) [GPSMB301](#) [FG4403](#) [AO-AGSM-OM54](#) [5200232](#) [MIKROE-2349](#) [WCM.01.0111](#) [MIKROE-2393](#) [MIKROE-2352](#)