

Part No. X1005247-GNA1SA10A1

GNSS (active) External Antenna

(1561 / 1575 / 1602) MHz

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



GNSS (active) External Antenna

(1561 / 1575 / 1602) 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

Electrical Specifications

Typical characteristics in free-space

Frequency (GNSS)	1561 MHz	1575 MHz	1602 MHz
Gain at Zenith	2.0 dBi	4.1 dBi	2.0 dBi
VSWR	2.0:1 max		
Polarization	RHCP		
LNA Electrical Properties			
Frequency (GNSS)	1561 MHz	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	1.1 dB Typ.		
Power Consumption (@ 3.3 v)	9 mA Typ.		

Mechanical Specifications

Ordering Part #	X1005247-GNA1SA10A1
Dimensions (mm)	44.0 x 35.2 x 14.5
Mounting Type	Foam Adhesive
Weight (grams)	68
Operating Temperature (°C)	-40 ~ +85
Housing Material & Color	PC + ABS (Black)
Cable	Length: 1M Type: RG-174
Connector	GNSS SMA(M)
Waterproof	IPX7

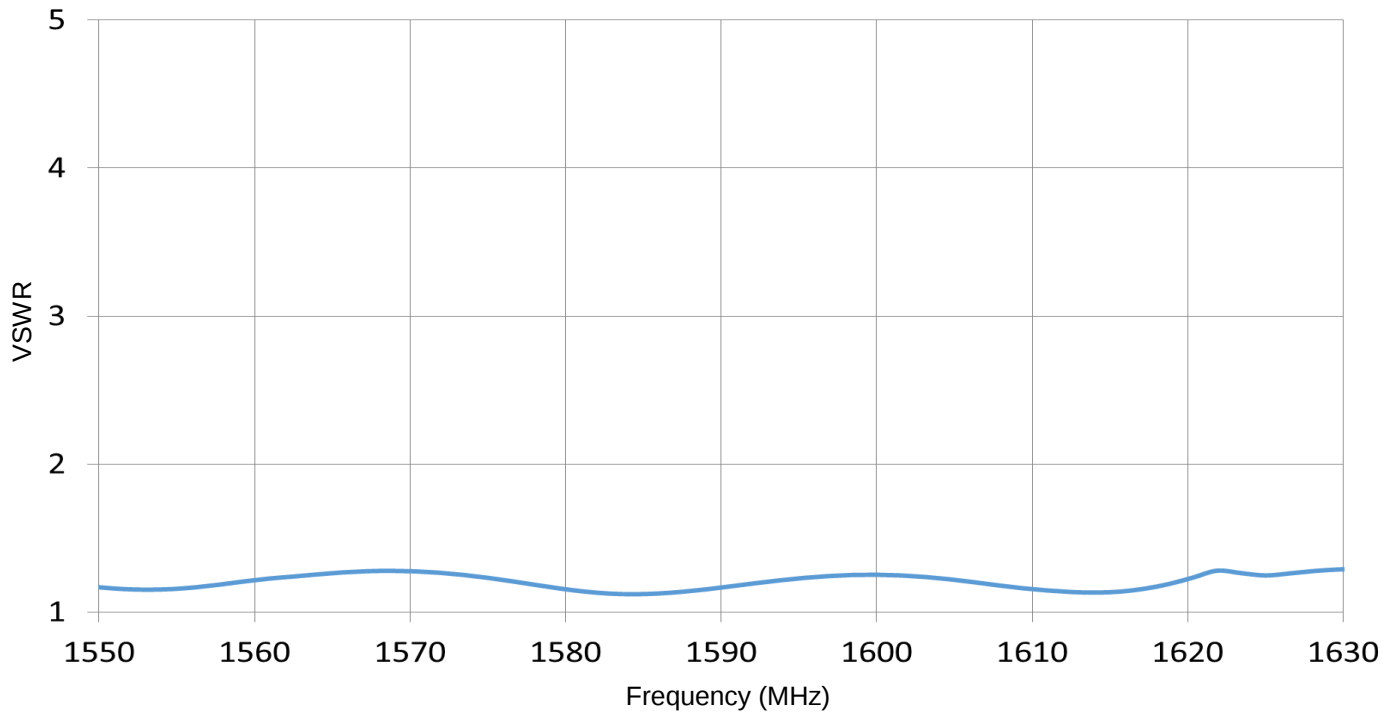


GNSS (active) External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

VSWR Plots (GNSS 1561 & 1575 & 1602 MHz)

Typical characteristics in free-space

VSWR:



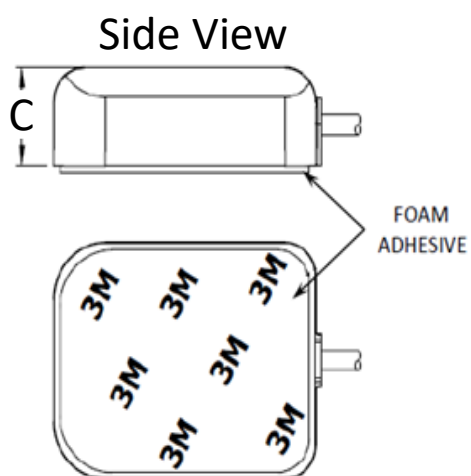
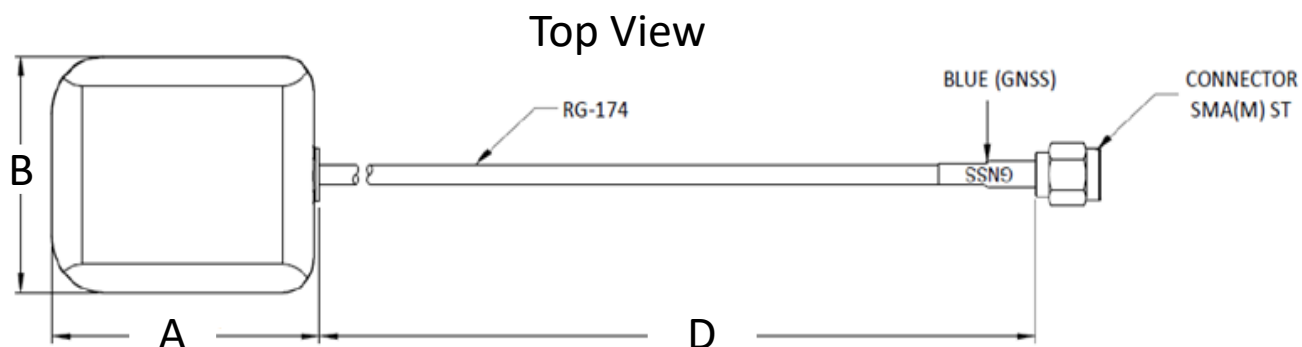


GNSS (active) External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	D (mm)
X1005247-GNA1SA10A1	44.0 ± 0.5	35.2 ± 0.5	14.5 ± 1.0	1000 ± 4.0



Bottom View