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# Leica GPS1200 Series Technical Data



- when it has to be right

**Leica**  
Geosystems

Independent measurements	Fully independent L1 and L2 code and phase measurements	Fully independent L1 and L2 code and phase measurements	Fully independent L1 and L2 code and phase measurements	Fully independent L1 code and phase measurements
Time to first phase measurement after switching ON	Typically 30 secs	Typically 30 secs	Typically 30 secs	Typically 30 secs

## Receiver Housing

	<b>ATX1230 GG</b>	<b>GX1230 GG / GX1220 GG / GX1230 / GX1220 / GX1210</b>
LED status indicators	3: for power, tracking, Bluetooth	3: for power, tracking, memory
Ports	1 RS232 clip-on port 1 USB/RS232 port 1 Bluetooth port	4 RS232 port 1 Power only port 1 TNC port for antenna 1 PPS, 2 Event port optional
Supply voltage	Nominal 12V DC	Nominal 12V DC
Power consumption	Range 10.5-28V DC Typically 1.8W, 150mA	Range 10.5-28V DC Typically 3.2W, 270mA
Dimensions	186mm x 89mm	0.212m x 0.166m x 0.079m (The dimensions are given for the housing without the sockets)
Weight, receiver only	1.12kg	1.2kg

## GNSS Antennas

	<b>GX1230 GG / GX1220 GG</b>	<b>GX1220 / GX1230</b>	<b>GX1210</b>
<b>Standard survey antenna</b>	<b>AX1202 GG, L1/L2 SmartTrack+</b>	<b>AX1202 GG, L1/L2 SmartTrack+</b>	<b>AX1201, L1 SmartTrack</b>
Groundplane	Built-in groundplane	Built-in groundplane	Built-in groundplane
Dimensions (diameter x height)	170mm x 62mm	170mm x 62mm	170mm x 62mm
Weight	0.44kg	0.44kg	0.44kg
Gain	29±3 dbi	29±3 dbi	typically 27 dbi
<b>Choke-ring antenna</b>	<b>AT504 GG choke-ring, L1/L2 GPS/GLONASS microstrip</b>	<b>AT504 choke-ring, L1/L2 microstrip. (GPS only)</b>	<b>No</b>
Design	Dorne Margolin, JPL design.	Dorne Margolin, JPL design.	
Protection radome	optional	optional	
Dimensions: diameter x ht	380mm x 140mm (antenna)	380mm x 140mm (antenna)	
Weight	4.3kg (antenna)	4.3kg (antenna)	
Gain	29±3 dbi	typically 27 dbi	

## SmartAntenna

	<b>ATX1230 GG</b>
<b>Standard survey antenna</b>	<b>ATX1230 GG, L1/L2 SmartTrack+</b>
Groundplane	Built-in groundplane
Dimensions (diameter x height)	186mm x 89mm
Weight	1,12kg
Gain	typically 27 dbi