

G100 GNSS Receiver

IDEAL FOR GIS APPLICATIONS

The G100 is a rugged, compact, wearable GNSS receiver that provides professional-level positioning data. Designed for a wide range of GIS applications, such as power patrol, forestry survey, pipeline inspection, water management and other field work requiring a high level of precision, the G100 enables you collect reliable location data for daily GIS workflows.

IMPROVED GNSS POSITIONING

Combined with antenna and a single frequency OEM board that tracks multiple satellite constellations in a rugged case, the standalone G100 receiver can deliver submeter accuracy to any connected mobile devices, it is also optional to connect with an external antenna to deliver centimeter positioning in real-time.

ENHANCED BLUETOOTH CONNECTIVITY

With the enhanced Bluetooth connectivity - the G100 can be easily connected to any device with operating systems from Android™ to Windows™ Mobile - ensures you work with existing third-party GIS software on your mobile device, enhancing efficiency and productivity in the field.

EASE OF USE

With dimension of 137 mm × 72 mm × 50.4 mm and weighing less than 350 g, the G100 can go wherever you go. According to your working demands, the receiver can be mounted on a pole, carried in your pocket, or attached to a belt. Furthermore, the all-day battery life and certified IP67 rating ensure you stable working even in harsh environments.



Size: 137 mm × 72 mm × 50.4 mm

Weight: < 0.35 Kg

Features

Support GPS, BeiDou, GLONASS, Galileo, QZSS and SBAS

Scalable Sub-meter to Centimeter Positioning

Ideal for GIS Applications

Compact Rugged Design

Multiple Data Collection Device Choices via Bluetooth Connection

G100 GNSS Receiver

G Series GNSS Receiver

Ver.2022.02.23

Signal Tracking

Channels	335
GPS	L1
BeiDou	B1
GLONASS	L1
Galileo	E1
QZSS	L1C
SBAS	WAAS, EGNOS, MSAS, GAGAN

Performance Specifications

Cold start	<50 s
Warm start	<45 s
Signal reacquisition	<3 s
RTK Initialization time	<10 s
Initialization reliability	>99.9%

Positioning Specifications

Post Processing	2.5 mm + 1 ppm Horizontal 5 mm + 1 ppm Vertical
Single Baseline RTK	8 mm + 1 ppm Horizontal 15 mm + 1 ppm Vertical
DGPS	<0.4m RMS
SBAS	1m 3D RMS
Standalone	1.5m 3D RMS

Communications

Bluetooth® 4.0	Compatible with Android™ and Windows™ mobile OS
Support Ntrip protocol (based on software)	
1 serial port (9 pin Fischer), 1 Fischer connector	
3 LEDs (indicating Power, Satellite Tracking and Bluetooth)	

Data Format

Correction data I/O	RTCM 2.X, 3.X, CMR(GPS only), CMR+(GPS only)
Position data output	ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST; PTNL,PJK; PTNL, AVR; PTNL, GGK Extended NMEA-0183 BDGGA, GPNTR, GPCDT, GPHPR ComNav Binary update to 20 Hz (compatible with major brands)

Physical

Size(L x W x H)	137 mm × 72 mm × 50.4 mm
Weight	<0.35 kg (with 1 battery inside)

Environmental

Operating temperature	-20 °C to +60 °C
Storage temperature	-30 °C to +70 °C
Waterproof and dust-proof	IP67
Shock and vibration	Survive a 1.5m nature drop onto concrete

Electrical

Battery capacity	3400 mAh
Power consumption	1.6 W
Working time	Over 16 h continuous work
Charging time	2.5 h

Optional Accessories

AT160 GNSS antenna
AT360 GNSS antenna

Software

Compass Receiver Utility software
Survey Master field surveying software

Specifications subject to change without notice.