

LT500



KEY FEATURES

- **1 GHz high speed CPU, 512 MB RAM, 16 GB flash Memory**
- **4.3" large high-definition, sunlight readable screen**
- **3.5G cellular modem**
- **Gyro, laser plummet, E-compass, G-sensor**
- **1D/2D barcode scanner, RFID versions available**

LT500 GNSS Handheld Receiver

Professional Surveying & Mapping Solutions

The LT500 is a rugged, versatile GNSS handheld receiver, it is the most cost-effective positioning solution for Survey, Construction and GIS professionals.

LT500

Embedded with professional GPS engine, the LT500 prepares the user to capture sub-meter data with SBAS differential correction signals or DGPS correction information from the local reference station.

Productive sensors

User productivity is greatly enhanced with the built-in gyroscope, an innovative laser plummet for positioning the accurate hand-held receiver over a point, an E-compass for showing the direction and a G-sensors for leveling. Optional RFID and 1D/2D bar code scanners help automate complex inventory tasks.

Stay connected

Built-in standard 3.5G cellular modem and provide seamless internet access. Bluetooth is available for connection with other hardware such as laser range finder, underground pipeline locator.

Technical Specifications

GNSS characteristics

- 12 channel
 - GPS: L1; SBAS
- Update Rate: up to 1 Hz
- Protocols: RTCM2.x NMEA 0183

Performance specifications ⁽¹⁾

- Cold Start < 60 s
- Hot Start < 30 s
- Reacquisition < 1 s
- Stand alone GPS: 2.5 m

System configuration

- Windows[®] Embedded Handheld 6.5 operation system
- Processor: 1 GHz
- Memory
 - 512 MB RAM and 16 GB internal flash memory
 - External Micro SD card slot, up to 32 GB
- 5.0 megapixel camera with autofocus

Display

- 4.3" sunlight readable colour screen
- Resolution: WVGA 800 X 480 pixel
- Touch screen

Communications

- Cellular Modem
 - UMTS/HSPA+ 800/850/900/1900/2100 MHz
 - EDGE/GPRS/GSM 850/900/1800/1900 MHz
- Bluetooth: 2.1 + EDR
- WiFi: 802.11 b/g
- USB Port

Physical

- Size (LxWxH): 236 x 97 x 77 mm (9.3 x 3.8 x 3.0 in)
- Weight: 897 g with battery (31.6 oz)
- Operating temperature: -30 °C to 70 °C (-22 °F to 158 °F)
- Storage temperature: -40 °C to 80 °C (-40 °F to 176 °F)
- Dust proof and waterproof: IP67
- Shock: survives a 1.2-meter drop on to concrete
- Vibration: MIL-STD-810G standard

Electrical

- Li-ion battery capacity: 11.1V, 2600 mAh
- Battery life: up to 13 hours (Autonomous GNSS usage)
- Charging time: 4 hours (typical)

Sensors

- Gyroscope
- Laser plummet
- E-compass
- G-sensor
- RFID(optional)
- 1D and 2D bar code scanner(optional)

Specifications are subject to change without notice.

⁽¹⁾ Accuracy and reliability specifications may be affected by multi path, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices.

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Forest it Design

Forest it Design is a leading provider of rugged mobile computers, all-in-One PC:s, measurement instruments and GPS/GNSS solutions. The company has offices in Sweden, UK, Germany and Finland.

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