

MGISS

CHC LT500T GIS Data Collection



- Multiple models covering from centimeter to sub-meter accuracy
- 1 GHz high-speed CPU, 512 MB RAM, 16 GB flash memory
- 4.3" high resolution sunlight readable screen
- 3.75G network modem
- Optional barcode scanner



LT500T is tough and built to last. Lightweight and compact, it fits in one hand, with the largest, best-in-class screen and a dust and water resistance IP67 rating.

LT500T is designed for high accuracy projects, requiring correctness to decimeter level. It is especially useful in utility applications as underground pipeline mapping and land records management.

Meanwhile, LT500T supports to enable the L1 RTK function through update code to reach 2 cm accuracy.



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GNSS Characteristics

220 channels with all in view simultaneously tracked satellite signals

- GPS: L1 C/A
- GLONASS: L1 C/A
- Galileo: E1
- BDS: B1
- SBAS: L1 C/A (QZSS L1 C/A, L1 SAIF)

Update Rate: 1 Hz, up to 50Hz

Cold Start: < 45 s

Hot Start: < 30 s

Re-acquisition: < 2 s

GNSS Accuracies

Real Time Kinematic (RTK):

- Fixed: 2 cm + 1 ppm

Post-processing Static: 10cm RMS

DGPS: 25 cm RMS

SBAS:

- Horizontal: 50 cm RMS
- Vertical: 85 cm RMS



Physical

Size (L x W x H): 236 mm x 97 mm x 77 mm

Weight: 897 g (31.6 oz) with battery

Humidity: 100% condensation

Dust and Water Proof: IP67

Shock and Vibration: 1.2 m (3.9 ft) fall onto concrete,

MIL-STD-810G, Method 514.7

System Configuration

Operating System: Windows® Embedded

Handheld 6.5 professional

4.3" sunlight readable touch screen

Resolution: WVGA 480 X 800

1 GHz CORTEX® A8 processor

RAM: 512 MB

Internal Memory: 16 GB

External Memory: Micro SD, up to 32 GB

Camera: 5 megapixel

Electrical

Li-ion Battery Capacity:

2600 mAh, 11.1 V

Operating Time(3): Up to 10 (autonomous GNSS usage)

Charging Time: 4 h (typical)



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