CHCNAV

LT60H

RUGGED GNSS
RTK SMARTPHONE

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MAPPING
& GEOSPATIAL

RUGGED SMARTPHONE
FOR ACCURATE
DATA COLLECTION

The LT60H rugged smartphone is a reliable and effective tool for a variety of industries and applications that require centimeter or decimeter positioning accuracy. Its portability, durability and versatility make it an excellent choice for precision GIS data collection, urban construction, pipeline inspection and more.

With its 6.3" sunlight viewable display, the LT60H is an optimal data controller for field professionals who need to position or locate assets and capture associated photos or video. Unlike consumer smartphones, the LT60H has an industrial IP67 design that can withstand daily use in harsh environments and conditions.

Customized low-level system processing allows almost any third-party Android-based mapping application to directly obtain highly accurate location information, significantly reducing software development efforts.

BRING ACCURACY AT YOUR FINGERTIPS

Survey-grade GNSS positioning

The LT60H features a high performance 1408 channel positioning module supporting GPS, GLONASS, Galileo and BeiDou, and a high performance quadrifilar helix GNSS antenna. This advanced technology delivers industry-leading centimeter- and decimeter-level accuracy, even in challenging environments.

PORTABILITY AND PERFORMANCE

GMS and AER certified for extended compatibility

The LT60H is GMS (Google Mobile Service) and AER (Android Enterprise Recommended) certified to ensure full compatibility with the most popular data collection applications in the Google Play Store. In addition, the LT60H integrates 4G and WiFi modems for seamless field-to-office communications and robust connectivity to RTK GNSS network corrections.

Powered by a 2 GHz Qualcomm Snapdragon octa-core processor, DDR3 memory and UFS flash memory, the LT60H is designed to seamlessly meet the needs of the mobile workforce. Whether working with large datasets, processing multiple images or accessing complex databases, the LT60H is always up to the task.

IPS DISPLAY FOR EXTRA COMFORT OF USE

Sunlight-viewable touch screen

The LT60H has a stunning high-resolution screen with over 400 PPI for exceptional clarity and detail. With a Corning Gorilla Glass 3 IPS display, it also offers increased durability in all weather conditions, ensuring your device is protected in even the harshest environments. Its 5-point capacitive touch screen allows data capture with a stylus, gloves, or even wet hands to accommodate different operating conditions.

KEEP YOUR DATA SECURE

Industrial IP67 design with 6,000 mAh Li-ion battery

The LT60H's IP67-rated industrial design and 6000 mAh Li-ion battery make it one of the most rugged and reliable devices on the market, ensuring your data is safe even in harsh environments and adverse weather conditions. With up to 12 hours of battery life, the LT60H provides uninterrupted data collection for field operations and extended work days.

CENTIMETER ACCURACY SMARTPHONE

BRING ACCURACY AT YOUR FINGERTIPS

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SPECIFICATIONS

System	
Operating system	Android 12.0 GMS certified
CPU	Advanced octa-core CPU 2.0 GHz
RAM	4 GB
ROM	64 GB
Extension	Micro SD card, up to 256 GB

GNSS Accuracies [1]	
Channel	1408
Constellation	BDS: B1I, B2I, B3I, B1C, B2a, B2b GPS: L1C/A, L1C, L2P (Y), L2C, L5 GLONASS: L1, L2 Galileo: E1, E5a, E5b, E6 QZSS: L1, L2, L5, L6
RTK	2 cm HRMS
Autonomous	< 1 m HRMS

Display	
Size	6.3" touch screen
Resolution	2340 x 1080
Brightness	550 cd/m^2 glare resistant, excellent sunlight readable screen
Touch screen	Capacitive multi-touch, 5 points
Screen technology	IPS display panel Corning® Gorilla® Glass 3

Cameras	
Front	8 MP
Rear	16 MP
Flash light	Integrated

Physical	
Dust and water proof	IP67 (according to IEC 60529) for water and dust resistance, protected against temporary immersion at a depth of up to 1 m.
Shock	1.5 m fall onto concrete
Humidity	5% - 95% RH (without condensation)
Size (L x W x H)	212.4 mm x 81.5 mm x 32.8 mm (8.4 in x 3.2 in x 1.3 in)
Weight	400 g (14.1 oz)
Environment	Operating: -20°C to + 60°C (-4°F to +140°F) Storage: -40°C to + 70°C (-40°F to +158°F)

Communications	
SIM Card Type	Nano-SIM card
Wi-Fi	Wi-Fi IEEE 802.11a/b/g/n/ac
Bluetooth	Bluetooth™ 5.1
USB	Type C, OTG
Network 4G modem	GSM: 850/900/1800/1900 WCDMA: B1/B2/B4/B5/B8/B19 CDMA EVDO: BC0 TD-SCDMA: B34/B39 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B17/B18/B19/B20/B26/B28 LTE-TDD: B34/B38/B34/B39/B40/B41

Battery [2]	
Li-ion battery capacity	Built-in non-removable battery 6,000 mAh
Voltage	3.8 V
Battery life	12 h
Charging time	4.0 h Fast charging: QC 3.0

Internal sensors
NFC; G-Sensor; Light Sensor; E-Compass; Gyroscope

Accessories

- Screen protector
- Charger
- Type-C USB cable
- Rear strap (optional)

* All specifications are subject to change without notice.
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* Bluetooth® is the tradmark owned by Bluetooth SIG, Inc.

(1) Accuracy and reliability are determined under clear unobstructed conditions, multipath, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices. (2) Battery life is dependent on factors such as environment temperature, brightness, CPU service conditions…

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