

M5

Survey & Engineering

- 384 channels multi-constellation receiver
- Multiple frequency for GPS, GLONASS and BDS
- Integrated network, UHF modem and Bluetooth
- Compact and rugged design
- Cost-effective GNSS RTK



M5 GNSS receiver is one of the most cost-effective solution selected by large number of surveyors for its outstanding performances and reliability.

Outstanding 384 channels multi-constellation tracking supports GPS, GLONASS and BDS for obstructed sky conditions to guarantee RTK accuracy and reliability in field.

Perfect compatibility with Android based field surveying software LandStar 7 provides a epoch-making experience for various and flexible working industries.

M5 innovative design integrates a built-in GNSS core, multi-constellation antenna, Bluetooth communication, RX UHF data link and network modules in one single receiver.

M5 GNSS receiver brings extremely affordable GNSS RTK solution to surveyors without high cost.



■ Technical Specifications

GNSS Characteristics

- 384 channels with all in view simultaneously tracked satellite signals
 - GPS: L1, L2, L5
 - GLONASS: L1, L2
 - BDS: B1, B2, B3
- Advanced multipath mitigation technology
- Low noise carrier phase measurement

GNSS Accuracies ⁽¹⁾

- Real Time Kinematics (RTK):
 - Horizontal: 10 mm + 1 ppm RMS
 - Vertical: 15 mm + 1 ppm RMS
 - Initialization Time: < 10 s
 - Initialization Reliability: > 99.9%
- Post-processing Static:
 - Horizontal: 8 mm + 1 ppm RMS
 - Vertical: 10 mm + 2 ppm RMS

Communications

- Integrated 3G network modem
- UHF Modem Internal Rx: 450 MHz to 470 MHz
- UHF Modem⁽²⁾ External Tx DL6: 1 W to 28 W adjustable
- Protocols:
 - RTCM2.x, RTCM3.x, CMR
 - NMEA 0183 output
 - HCN outputs for GNSS raw data (convertible to RINEX static format)
- Bluetooth®: V2.0
- Serial: 1 x 10-pin LEMO port (external power, USB data download, USB update, RS-232)
- Data Storage:
 - 4 GB internal memory
 - GPS device mounts as a USB external hard drive

Physical

- Size (H x D): 84 mm x 179 mm (3.3 in x 7.0 in)
- Weight: 1.4 kg (49.4 oz) with battery
- Environment
 - Operating: -40°C to +65°C (-40°F to +149°F)
 - Storage: -40°C to +75°C (-40°F to +167°F)
- Humidity: 100% condensation
- Dust and Water Proof: IP67
- Shock and Vibration: 2 m (6.56 ft) fall onto concrete

Electrical

- Power Consumption: 3.5 W (depending on user settings)
- Li-ion Battery Capacity: 3400 mAh
- Operating Time⁽³⁾: Typical 4 h in RTK mode
- External Power: 9 V DC to 18 V DC

Software (optional)

- LandStar 7 Android field data collection software

(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. (2) UHF type approvals are country specific. (3) Operating time varies based on temperature.

Specifications are subject to change without notice.



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