



L7 Pro

High Precision IMU GNSS RTK Receiver

Built-in IMU

All-in-One Design

Tilt Compensation

1408
Channels

8400mAh
Battery

IP67
Protection

1.03kg
Total Weight

Key Features



Built-in IMU

Calibration-free. Shake to initialize in seconds.



Full Constellation

GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS.



Multi-Connectivity

Bluetooth, WiFi, 4G, UHF radio, 32GB storage.



2.5cm Tilt Accuracy

30-degree pole tilt, immune to magnetic fields.



8400mAh Battery

18h rover / 11h base. USB-C fast charge.



Base & Rover

Switch freely between base and rover mode.



Linux OS & WebUI

Smart OS, voice prompts & WebUI config.



IP67 Rugged Design

Mg-alloy shell. 2m drop, IP67 to 2m depth.



Internal UHF Radio

410-470 MHz, 15-30 km working range.

Application Scenarios

Construction

Geology & Mining

Surveying & Mapping

Cadastral

Disaster Response

Marine Engineering

Water Conservancy

Forestry & Agriculture

Electric Power

Roads & Bridges

Utilities & Pipelines

Research & Education

Why Choose L7 Pro

TILT RTK



0°-60° / 2.5cm

Pole tilt up to 60° with 2.5 cm accuracy, immune to magnetic interference.

ENDURANCE



18 Hours

8400 mAh hot-swappable battery for full-day rover missions.

FULL CONSTELLATION



1408 Channels

GPS, GLONASS, Galileo, BeiDou, QZSS & SBAS tracked simultaneously.

SUPPORTED GNSS SYSTEMS

GPS

GLONASS

Galileo

BeiDou

QZSS

SBAS

Software Ecosystem

GeoCell (Android) | CORS / NTRIP | CAD & GIS Ready

GNSS

Channels: 1408
GPS: L1C/A, L1C, L2P(Y), L2C, L5
GLONASS: G1, G2, G3
Galileo: E1, E5a, E5b, E6
BeiDou: B1I, B2I, B3I, B1C, B2a, B2b
QZSS: L1C/A, L1C, L2C, L5
SBAS: L1C/A
Positioning Rate: 1 Hz default, 20 Hz max
Signal Reacquisition: < 1 s
Time to First Fix: < 25 s cold / < 10 s hot

GNSS ACCURACIES (1)

RTK: H 8 mm + 1 ppm, V 15 mm + 1 ppm RMS
RTK Init: < 5 s, reliability > 99.9%
Static: H 2.5 mm + 0.5 ppm, V 5 mm + 0.5 ppm
PPK: H 2.5 mm + 1 ppm, V 5 mm + 1 ppm
Tilt RTK: 0° – 60°, 25 mm (within 30°)
Tilt Sensor: Calibration-free IMU

COMMUNICATIONS

Internal UHF: 410 – 470 MHz, 0.5 – 1.5 W
UHF Protocol: CSS, Kilichain, TT450
External Radio: 410 – 470 MHz, 5 W / 35 W
Radio Working Range: 15 – 30 km
Link Rate: 9600 – 460800 bps
WiFi: IEEE 802.11 a/b/g/n
Bluetooth: BT 4.1, compatible with BT 2.x
Cellular: LTE FDD/TDD, WCDMA, GSM
Storage: 32 GB internal memory
Data Formats: NMEA-0183, NTRIP
Corrections: RTCM 2.x / 3.x, CMR

ELECTRICALS (2)

Battery: 8400 mAh Li-ion
Operating Time: 18 h (Rover) / 11 h (Base)
External Power Input: 9 – 36 V DC
Power Consumption: < 2.0 W Rover / < 2.2 W Base

PHYSICALS

Size: 140 × 140 × 88 mm
Weight: 1.03 kg (2.27 lb)
Material: Mg-alloy shell + ABS/PC
Working Temp: -45 °C to +75 °C
Storage Temp: -55 °C to +85 °C
Shock: Survives 2 m pole drop
Ingress Protection: IP67, 2 m immersion
Ports: Type-C, SIM card slot
Front Panel: 4 LEDs, 2 physical buttons

* All specifications are subject to change without notice.
(1) Accuracy depends on the open sky, free of multipaths, optimal GNSS geometry and atmospheric conditions. (2) Battery life is subject to the particular operating temperature.
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