

Signal Tracking

channels: 1598

GPS: L1C/A,L2P,L1C,L2C,L5

BeiDou: B1I,B2I,B3I,B1C,B2a,B2b,B2b-ppp

GLONASS: G1C,G1P,G2C,G2P,G3

Galileo:E1,E5b,E5a,E5AltBoc,E6c

QZSS: L1C/A,L2C,L5,L1C,L1s,L5s,L6

NAVIC: L6

SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM

Performance Specifications

Signal Re-acquisition: ≤1s

Cold start: <50 s

Warm start: <30 s

Hot start: <15 s

Initialization time: <10 s

Signal re-acquisition: <1.5 s

Initialization reliability: >99.9%

Mode	Accuracy
Single Baseline RTK	8mm +1ppm Horizontal 15mm +1ppm Vertical
Static and Fast Static	2.5mm +0.5ppm Horizontal 5mm +0.5ppm Vertical
Long Observation Static	3mm +0.1ppm Horizontal 3.5mm +0.4ppm Vertical
DGPS	<0.4m RMS
SBAS	0.5m Horizontal 0.8m Vertical
Standalone	1.5m 3D RMS

Communications

Type-C

- Baud rates up to 921,600 bps UHF modem

- Tx/Rx with full frequency range from 410-470 MHz

- Transmit power: 0.5-2 W adjustable

- Range: 15 km

WIFI: 802.11b/g/n

Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz

2LEDs (indicating Satellites Tracking, RTK Corrections Data)

1 Function buttons for Power

Bluetooth®: V 4.0 protocol, compatible with Windows OS and
Android OS Calibration-free IMU integrated for tilt survey up to
60°tilt with 2.5 cm accuracy

Data Format

Correction data I/O:

- RTCM 2 X, 3 X, CMR (GPS only), CMR+ (GPS only)

Position data output:

- ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG,
GST; PTNL, PJK; PTNL, AVR; PTNL, GGK

Physical

Size: 13*13*10cm

Weight: 790g (include battery)

Environmental

Operating temperature: -40 °C to + 65 °C (-40 °F to 149 °F)

Storage temperature: -40 °C to + 85 °C (-40 °F to 185 °F)

Humidity: 100% non-condensing

Waterproof and dustproof: IP67, protected from temporary

immersion to depth of 1 m

Shock: Designed to survive a 2 m drop onto concrete

Electrical and Memory

Input voltage: 6-28 VDC

Power consumption: 1.4 W

Battery Capacity: 5000mAh, 7.4V

Memory: 8 GB

Software

MaxNav Android-based data collection software

FieldGenius field data collection software (optional)

1.8GB is the default internal memory and optional 16GB, 32GB is available to order. Please clarify when placing the order.

2. Working distance of internal UHF varies in different environments, the maximum distance is 15km in ideal situation.

Specifications subject to change without notice.

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MaxNav

Makes surveying easier and faster



I M6 Pocket GNSS Receiver

The M6 Pocket GNSS receiver is designed with super small size and lightweight. By integrating the latest IMU-RTK technology, it can deliver high reliable and accurate positioning in challenging situations. And the IMU-based 60° tilt surveying function enables you surveying without leveling the pole, making your construction and surveying work done easier and faster.

You just need to shake poles to initialize IMU. Less than 10 seconds first calibrations can last long time working hours. Up to 60° tilt compensation with 2.5cm accuracy, convenience and reliability are guaranteed at the same time.

IMU-BASED TILT SURVEYING SIMPLIFIES SURVEYING PROCESS



FULL CONSTELLATION TRACKING ENSURES RELIABLE PERFORMANCE



With integrated 1598-channel GNSS technology, M6 Pocket support all the current and future GNSS signals, providing robust RTK availability and reliability. The adopted anti-interference algorithm technology improves fixed rate in a large extent.

I C50 Data Collector

New exterior design, customized for engineers, more comfortable hold

Large capacity 7000mAh battery, QC3.0 quick charging, long-lasting operation

With advanced NFC, tedious matching is a thing of the past

Qualcomm processor, Android 12 operation system, faster performance, smoother operation



Qualcomm



1080P Resolution



5.5" Display



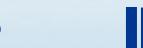
Full QWERTY



Android 12



LARGE CAPACITY



IP67