

SPECIFICATIONS

GNSS

Channels 1408

Satellite GPS:L1C/A/L2P(Y)/L2C/L5
GLONASS:L1/L2
BDS:B1I/B2I/B3I/B1C/B2a/B2b
Galileo:E1/E5a/E5b/E6
QZSS:L1/L2/L5/L6
SBAS:L1
NavIC:L5

Output Max 50Hz

Operation system Linux

Initialization <5s(Typical)

Reliability 99.99%

Static Horizontal $\pm(2.5\text{mm}+0.5\times 10^6 \times \text{D})$

Static Vertical $\pm(5\text{mm}+0.5\times 10^6 \times \text{D})$

RTK Horizontal $\pm(8\text{mm}+1.0\times 10^6 \times \text{D})$

RTK Vertical $\pm(15\text{mm}+1.0\times 10^6 \times \text{D})$

IMU

IMU Support

Accuracy Within $60^\circ < 2\text{cm}$

Degree $0^\circ \sim 120^\circ$

Format

Corrections RTCM2.X, RTCM3.X

GPS output format NMEA 0183, binary code

Function

Tilt Support

PPK Support

Buzzer Support

Voice Support

NFC Support

Size 152*152*103MM

Physical

Weight 950g

Working $-45^\circ\text{C} \sim +75^\circ\text{C}$

Protection Ip67

Resistance Ik08

Fall down Resistant to 1.8m drop

Static format TXT

Capacity

Memory 32G

Battery 7.2V、13200mAh

Electrification

Working time Rover mode--36 hours
Base mode --8 hours

I/O port 1* USBTypeC,charge
1* TNC Radio
1* 5 pin Lemo (9V-14V)
1* NanoSIM card
1* Button

Communication

Network Buletooth, Wi-Fi,
4G-LTE, WEB UI
LTE-TDD B38/B40/B41
LTE-FDD B1/B3/B5/B7/B8/B20
UMTS/HSPA+ B1/B8
GSM/GPRS/EDGE 900/1800 Mhz

Power TX/ RX +Lora (5W)

Frequency 410-470MHZ

Protocol TRIMTALK450S, TRIMMARKIII,
SOUTH9600, SOUTH19200

LCD

size 1.39 inch

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KanQ

KQ M12P SUPER BASE STATION



▶ Imu Tilt 120 Degree

▶ Web Ui Configure

▶ 1408 Channels

▶ Update Rate 50hz

▶ 5W long distance

▶ Type C Fast Charge

▶ **Supper tracking capacity**

1408 channels and full -frequency RTK engine and full star RTK technology. Can against most of the complex conditions

▶ **4th generation IMU sensor**

The newest IMU sensor makes the Tilt working more convenient, it eliminates the loss of Inertial-Measurement-Usable Status in most scenarios, no need frequency to shake the carbon pole and 120 degree tilt

▶ **Powerful battery and charger**

With 7.2V 13200mAh capacity and quick charge technology, support you 8--10 hours base station 5w radio operation, also power bank support , help you in full day working and continuous field working to improve your efficiency.

▶ **Long distance working**

5W internal radio provide 15KM working distance, In urban and bad environment distance can coverage up to 5KM, In Open areas distance can reach to 25KM distance.

▶ **Advanced but lower cost**

M12 is high specifications with full function of GNSS system , but to obviously lower the cost for surveyor to get the suitable products. This the best to meet all of your desires

▶ **Reliable Precision**

Support the full-frequency film RTK positioning solution
The embedded multi-frequency point anti-interference technology. Significantly improved the initialization speed, measurement accuracy and reliability in complex environment



M12P GNSS is specially design for Base station , it equipped with 4G/ 5W radio/ Bluetooth / WIFI for communication, WEB UI and IMU tilt 120 degree support. High pecifications , stable performance but with very good budget, 5W internal radio make the working distance reach to 15KM without external radio. Combine with M12BA/M12 LA/ M12 IS as rover to experience the high technology surveying method.