





Empowered by Mk-803 SoC board, ROVA 1 is an ideal GNSS rover that you can imagine - handy size with featherweight, exceptional fixing speed and accuracy especially in touch condition, power-saving, and reliable IMU tilt correction.



# **SPECIFICATIONS**



#### **POSITIONING**

**Board Model** Mk-803 Channels 1,598

**GPS** L1 C/A, L2C, L2P, L5 **GLONASS** L1 C/A, L1P, L2C/A, L2P

**BEIDOU** B1, B2, B3

E1, E5A, E5B, E6, E5 AltBOC **GALILEO** 

**QZSS** L1, L2C

L-band Reserved for upgrade

**Positioning Rate** 1-20Hz

#### **ACCURACY**

Code Differential  $H: 0.25m \pm 1ppm (rms)$ V: 0.50m ± 1ppm (rms)

**Static** H:  $2.5 \text{mm} \pm 0.5 \text{ppm} \text{ (rms)}$ 

V: 5mm ± 0.5ppm (rms)

Real-time Kinematic  $H: 8mm \pm 1ppm (rms)$ 

V: 15mm ± 1ppm (rms)

**Network RTK** H: 8mm ± 0.5ppm (rms) V: 15mm ± 0.5ppm (rms)

#### **IMU MEASUREMENT**

**Tilt Angle** Maximum 60° 10mm + 0.7mm/° **Accuracy** 

### **DATA STORAGE**

SSD 4GB Type & Storage

External USB Pen drive

**Data Tranfer USB** Transfer

Supports FTP/HTTP download

**GPS Output Format** CMR+, sCRMx, RTCM 2.x, RTCM

> 3.x, NMEA 0183, PJK plane coordinates, binary code

VRS, FKP, MAC

**Network Model** Ntrip fully supportable

#### COMMUNICATION

1/0 5pin LEMO external power + RS232

Type-C (OTG+Fast Charge+Ethernet)

Radio antenna TNC interface

UHF Radio Module 1 X-link 2W

410-470MHz

Protocol TrimTalk 450s, TrimMark 3, PCC, EOT,

**SOUTH Farlink** 

Cellular 2 Through controller's network

WiFi 3 802.11b/g/n

Hotspot/Data Link

Bluetooth 4 Bluetooth 2.1 + EDR and 4.0

NFC<sup>5</sup> <10cm

#### **INTERFACES**

Rutton

LED Indicator Data Link, Satellite, Recharging

**POWER SUPPLY** 

Battery Internal Li-on Battery

7.4V, 6,800mAh

**Operating Time** Rover Mode 15h

#### **PHYSICAL**

Dimension 80mm(H), 130mm (W)

Weight 790g Operating Temp. -45-75°C Proof **IP68** 

> 2m drop on hard surface 40G 10ms sawtooth wave

> > 1,2,3,4,5: Not equipped on Lite Edition

#### **ITEM LIST (ROVER) ITEM LIST (BASE)**

Receiver Receiver Carrying Case Carrying Case Charger Charger Type-C Cable Type-C Cable Radio Antenna Radio Antenna Carbon Fiber Pole 30cm Pole

HI Measuring Plate HI Measuring Plate

Connector Connector



## **Data Collector H6**

Android 8.1 5" HD screen

6GB RAM/64GB ROM

Full Keyboard

**IP67** 





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