



Industry-leading small power consumption



frequencies

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.



5pin LEMO external power + RS232

Type-C (OTG+Fast Charge+Ethernet)

TrimTalk 450s, TrimMark 3, PCC, EOT,

Radio antenna TNC interface

Through controller's network

Bluetooth 2.1 + EDR and 4.0

X-link 2W

410-470MHz

SOUTH Farlink

802.11b/g/n

Hotspot/Data Link

SPECIFICATIONS

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

GALILEO E1, E5A, E5B, E6, E5 AltBOC

QZSS L1, L2C

Reserved for upgrade L-band

Positioning Rate 1-20Hz

ACCURACY

Code Differential

Network RTK

POSITIONING

V: 0.50m ± 1ppm (rms) H: 2.5mm ± 0.5ppm (rms) **Static**

V: 5mm ± 0.5ppm (rms)

H: 0.25m ± 1ppm (rms)

Real-time Kinematic H: 8mm ± 1ppm (rms) V: 15mm ± 1ppm (rms)

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

IMU MEASUREMENT Tilt Angle

10mm + 0.7mm/° Accuracy

DATA STORAGE Type & Storage

SSD 4GB 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

Maximum 60°

coordinates, binary code VRS, FKP, MAC

ITEM LIST (BASE)

Network Model Ntrip fully supportable

NFC INTERFACES

Bluetooth

COMMUNICATION

UHF Radio Module

1/0

Protocol

Cellular

WiFi

Button **LED** Indicator

Data Link, Satellite, Recharging

<10cm

POWER SUPPLY Battery

Internal Li-on Battery 7.4V, 6,800mAh

Operating Time Rover Mode 15h

PHYSICAL Dimension

Weight 790g

-45-75°C Operating Temp. Proof IP68 2m drop on hard surface

40G 10ms sawtooth wave

80mm(H), 130mm (W)

ITEM LIST (ROVER)

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



LANDMARK SURVEY ENGINEERING



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H6

Android 8.1

Data Collector

5" HD screen 6GB RAM/64GB ROM Full Keyboard **IP67**