



Adopting SoC board Mk-803, the New QUASAR R93i now delivers an incomparable performance not only on fixing speed, accuracy, flexibility, but also reliability in touch condition with even smaller power comsumption.



Immune to magnetic interference and calibration-free, Rimu 2.0 improves the fixing speed and accuracy by 30%,



The new internal UHF radio X-link now offers an optimal solution to this palm-size receive, delivering a futher and move stable differential data link, and extending the working range to 10-15km.



## **SPECIFICATIONS**

## **QUASAR** R93i

**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

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

**QZSS** L1, L2C L-band Yes **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** 

**Network Model** 

SSD 8GB 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 coorddinates, binary code

VRS, FKP, MAC

Ntrip fully supportable

COMMUNICATION

1/0 5pin LEMO external power + RS232

Type-C (OTG+Fast Charge+Ethernet)

Radio antenna TNC interface

**UHF Radio Module** X-link 2W

410-470MHz

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

**SOUTH Farlink** 

Cellular Optional WiFi 802.11b/g/n

Hotspot/Data Link

Bluetooth Bluetooth 2.1 + EDR and 4.0

NFC <10cm

**INTERFACES** 

**Button** 

**LED** Indicator Bluetooth, Data Link, Satellite, Power

**POWER SUPPLY** 

Battery Internal Li-on Battery

7.4V, 6,800mAh

**Operating Time** Rover Mode 15h

**PHYSICAL** 

Dimension 85mm(H), 135mm (W)

Weight 970g Operating Temp. -45-75°C Proof **IP68** 

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

**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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