

# **QUASAR** R93i



The new GNSS positioning system R93i combines user-friendly, ergonomic design with high-end reliability under harsh conditions.

The new GNSS mainboard Mk-803, integrated Linux OS and advanced datalink choices help you to complete your surveying tasks with the highest speed and accuracy. The innovative split-type design avoids the electro-magnetic interference from controller to the mainboard. Its light weight and almost a hand's size, makes it ideal to carry no matter on hand or on the back.

















Combined with such innovative technology, R93i provides you an all new tilt compensation solution, which is immune to magnetic interference and calibration-free. No longer need to level the receiver, and worry free about the metallic surroundings.



### Powered by Mk-803

New generation of powerful GNSS mainboard Mk-803 with 965 channels enables R93i to support a wide range of satellite signals, including GPS, GLONASS, BeiDou, Galileo, QZSS, SBAS, etc, with greater single stability and positioning accuracy.



#### X-I ink

The new internal UHF radio - X-Link - now offers a optimal solution to this palm-size receiver, delivering a further and more stable differential data link.

## Linux OS

Powered by the new generation of embedded Linux operating system, R93i has a greatly improved RTK performance and efficiency. One unique core processing mechanism is able to response to more than one command at one time.

#### WiFi and Web Server

By connecting through the integrated WiFi of R93i, you can log on an userfriendly management platform on the browser of your phone or computer. All status monitoring and parameter settings can be achieved in a fast and easy way. RECEIVER SPECIFICATION

Channels 965

**GPS Tracking** L1, L1C, L2C, L2P, L5

**GLONASS Tracking** G1, G2 BeiDou Tracking B1, B2, B3

Galileo Tracking E1, E5A, E5B, AltBOC

**QZSS** L1, L2C, L5

**SBAS** L1

Positoning Rate 1-20Hz WiFi 802.11b/g/n

Hotspot

Data Link

Bluetooth 2.1 +EDR and 4.0

<10cm

**INTERFACES** 

Bluetooth

**NFC** 

Button

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

Power

RECEIVER ACCURACY

Real-Time Kinematic

Network RTK \*By controller

Tilt Range

Static

Horizontal 0.25m±1ppm (rms) Code Differential

Vertical 0.50m±1ppm (rms) Horizontal 2.5mm±0.5ppm (rms)

Vertical 5mm±0.5ppm (rms)

Horizontal 8mm±1ppm (rms)

Vertical 15mm±1ppm (rms)

Horizontal 8mm±0.5ppm (rms)

Vertical 15mm±0.5ppm (rms)

IMU MEASUREMENT \*not equipped in Lite Version

Up to 60°

< 2cm (within 30°) Accuracy

< 5cm (within 60°)

COMMUNICATION

5pin LEMO external power + RS232 1/0

7pin LEMO USB (OTG) + Ethernet

Radio antenna interface

**UHF Radio Module** X-link 1W

410-470MHz

Protocol TrimTalk 450s, TrimMark3,

PCC EOT, SOUTH

**DATA STORAGE** 

Type & Storage SSD 8GB

External USB pen drive

Date Transfer **USB** transfer

Supports FTP/HTTP download Format (Differential)

CMR+, sCRMx, RTCM 2.1, RTCM 2.3,

RTCM 3.0, RTCM 3.1, RTCM 3.2

NMEA 0183, PJK plane coord., binary

code, Trimble GSOF

VRS, FKP, MAC

NTRIP fully supportable

**POWER SUPPLY** 

**Operating Time** 

Network Model

**GPS Output Format** 

Internal Li-on, 6800mAh, 3.7V Battery

PowerCase supported

Static mode 8h

Rover mode 6h

**PHYSICAL** 

Dimension

Weight with batt.

Operating Temp.

**Protection Class** 

Shock

Vibration

85mm (H), 135mm (W)

970g

-45° C to 60° C

**IP67** 

2m drop on hard surface

40G 10ms sawtooth wave

### **Recommended Partners**



Rugged Controller Н6

Android 8.1 5" touch screen 4GB/32GB Alphanumeric keypad



Surv(X

Android software SurvX Easy-to-use work flow Useful survey tools Google map supported DXF, DWG import & display



**External Radio S1** 

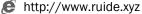
10/25W Output SOUTH/Trimtalk Protocol 403-473MHz Bluetooth 4.0 **IP67** 







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