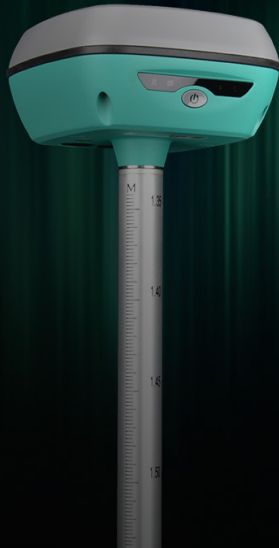


Handy GNSS Receiver

# QUASAR R93i



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

The powerful GNSS mainboard, 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.

Crafted for  
**iPositioning**



## 555 channels, all constellations

New generation of powerful GNSS mainboard with 555 channels enables R93i to support a wide range of satellite signals, including GPS, GLONASS, BeiDou, Galileo, SBAS, etc, with greater single stability and positioning accuracy.

## 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 user-friendly 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.

## Handy and versatile

A palm size, with 3 I/O interface, four indicator LEDs and intelligent UHF module, it is able to fulfill all kinds of jobs on field. Besides the conventional UHF datalink, R93i can also work as radio repeater, doubles the radio working range.

# SPECIFICATION

## SATELLITES

Channels	555	WiFi	802.11b/g/n
GPS Tracking	L1, L2, L5		Hotspot Data Link
GLONASS	L1, L2	Bluetooth	Bluetooth 2.1 +EDR and 4.0
Tracking BeiDou	B1I, B1C, B2I, B2A	NFC	Within 10cm
Tracking Galileo	E1, E5A, E5B, AltBOC		
Tracking SBAS	L1, L1C, L2C, L5		
Positioning Rate	1-20Hz		

## ACCURACY

Code Differential	Horizontal $0.25m \pm 1ppm$ (rms) Vertical $0.50m \pm 1ppm$ (rms)	Type & Storage	SSD 8GB External USB pen drive
Static	Horizontal $2.5mm \pm 0.5ppm$ (rms) Vertical $5mm \pm 0.5ppm$ (rms)	Date Transfer Format (Differential)	USB transfer Supports FTP/HTTP download 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
Real-time Kinematic	Horizontal $8mm \pm 1ppm$ (rms) Vertical $15mm \pm 1ppm$ (rms)	GPS Output Format Network Model	VRS, FKP, MAC NTRIP fully supportable
Network RTK	Horizontal $8mm \pm 0.5ppm$ (rms) Vertical $15mm \pm 0.5ppm$ (rms)		

## INTERFACES

Button	One	Battery	Internal Li-on, 6800mAh, 3.7V PowerHub supportable
LED Indicator	Bluetooth, Data Link, Satellite, Power	Operating Time	Static mode 8h Rover mode 6h

## COMMUNICATION

I/O	5pin LEMO external power + RS232 7pin LEMO USB (OTG) + Ethernet	Dimension	85mm (H), 135mm (W)
UHF Radio Module	Radio antenna interface 1W Output 410-470MHz	Weight	970g
Protocol	TrimTalk 450s, TrimMark3, PCC EOT, SOUTH	Working Temperature	-45° C to 60° C
		Protection Class	IP67
		Proof of Shock & Vibration	2m drop on hard surface 40G 10ms sawtooth wave

## PHYSICAL

## Recommended Partners



Android 6.0 OS  
4.3" touch screen  
Alphanumeric keypad  
IP68 standard  
4G cellular module



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



Max. 35W output  
410-470MHz  
TrimMark, TrimTalk,  
SOUTH protocol  
RS232, 5pin LEMO  
IP67



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