blueQUASAR R93i

DEVELOPED WITH septentrio
Mk-X5

Adopting OME baord Mk-X5 which is developed and customized with Septentrio, the blueQUASAR R93i can suppress the widest variety of interferers, from simple continous norrowband signals to the most complex wideband and pulsed jammers.

Rimu 2.0

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

X Link

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.

RUIDE

POSITIONING

Board Model	Mk-X5 customized from Septentrio
Channels	1,760
GPS	L1 C/A, L1PY, L2C, L2P, L5
GLONASS	L1 C/A, L2C/A, L2P, L3 CDMA
BEIDOU	B1I, B2C, B2A, B2I, B3
GALILEO	E1, E5A, E5B, E5 AltBOC
QZSS	L1C/A, L2C, L5
SBAS	Egnos, WAS, GAGAN, MSAS, SDCMA (L1, L5)
Navic	L5
L-band	On module
Positioning Rate	1-100Hz

ACCURACY

Code Differential	H: 0.25m ± 1ppm (rms)
	V: 0.50m ± 1ppm (rms)
Static	H: 2.5mm ± 0.5ppm (rms)
	V: 5mm ± 0.5ppm (rms)
Real-time Kinematic	H: 6mm ± 0.5ppm (rms)
	V: 10mm ± 1ppm (rms)
Network RTK	H: 8mm ± 0.5ppm (rms)
	V: 15mm ± 0.5ppm (rms)

IMU MEASUREMENT

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

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 coorddinates, binary code
Network Model	VRS, FKP, MAC
	Ntrip fully supportable

COMMUNICATION

I/O	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	Yes
WiFi	802.11b/g/n
	Hotspot/Data Link
Bluetooth	Bluetooth 2.1 + EDR and 4.0
NFC	<10cm

INTERFACES

Button	1
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