



C6

GNSS POSITIONING SYSTEM



SPECIFICATIONS

RECEIVER SPECIFICATION

Channels	1598
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*
IRNSS	L5*
Positioning Rate	1-20Hz

RECEIVER ACCURACY

Code Differential	Horizontal 0.25m±1ppm (rms) Vertical 0.50m±1ppm (rms)
Static	Horizontal 2.5mm±0.5ppm (rms) Vertical 5mm±0.5ppm (rms)
Real-Time Kinematic	Horizontal 8mm±1ppm (rms) Vertical 15mm±1ppm (rms)
Network RTK	Horizontal 8mm±0.5ppm (rms)
*By controller	Vertical 15mm±0.5ppm (rms)

IMU MEASUREMENT

Tilt Range	Up to 60°
Accuracy	<2cm(within 30°) <5cm(within 60°)

COMMUNICATION

I/O	5pin LEMO external power + RS232 Type-C USB (OTG) + Ethernet Radio antenna interface
UHF Radio Module	X-link 2W 410-470MHz
Protocol	TrimTalk 450s, TrimMark3, PCC EOT, SOUTH

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

INTERFACES

Button	One
LED Indicator	Bluetooth, Data Link, Satellite, Power

DATA STORAGE

Type & Storage	SSD 4GB 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
GPS Output Format	NMEA 0183, PJK plane coord., binary code, Trimble GSOFF VRS, FKP, MAC
Network Model	NTRIP fully supportable

POWER SUPPLY

Battery	Internal Li-on, 6800mAh, 3.7V PowerCase supported
Operating Time	15h

PHYSICAL

Dimension	84mm (H), 135mm (W)
Weight with batt.	890g
Operating Temp.	-45°C to 60°C
Protection Class	IP67
Shock	2m drop on hard surface
Vibration	40G 10ms sawtooth wave

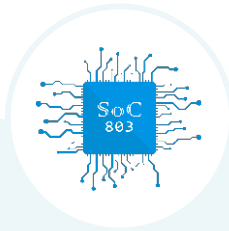
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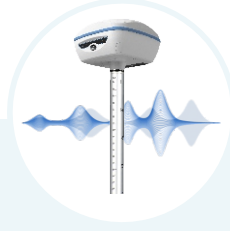
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Powered by Board-803

New generation of powerful GNSS mainboard Board-803 with 1598 channels enables C6 to support a wide range of satellite signals, including GPS, GLONASS, BeiDou, Galileo, QZSS, SBAS, etc, with greater single stability and positioning accuracy.



5KM radio link

Built-in transceiver integrated radio, working frequency 410-470MHz. TrimTalk450S, TrimMark3, SOUTH CHC SATEL, HI-TARGET are all compatible. Equipped with Far-Link "Simultaneous" radio module, based on Farlink protocol, it can increase the sensitivity and efficiency of radio signal, achieve the typical working range as 8KM operation, and meet the needs of customers for small and medium-scale.



Barrier-Free Measurement

Built-in 6800mAh high-capacity battery, the battery life is more than 15 hours, one charge, meets all-day work. Equipped with fast charging charger, which can be fully charged within 5 hours. The battery core can be recharged with long life, and performance is more secure and reliable.



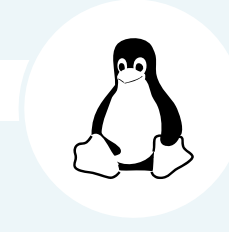
WiFi and Web Server

By connecting through the integrated WiFi of C6, 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.



IMU survey

Built-in IMU compensator, correct the coordinates according to the tilt direction and angle of the centering rod automatically within 60°, assist you quickly and accurately survey or stake out points without leveling the pole, error less than 3cm within 45° inclination, improve working efficiency by 20%.



Linux OS

Powered by the new generation of embedded Linux operating system, C6 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.

RECOMMENDED PARTNERS



Rugged Controller H6

Android 8.1
5" touch screen
4GB/32GB
Alphanumeric keypad
Ip67



Field Software

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