



SP10 GNSS Receiver

The SP10 is a portable RTK device introduced by SphereFix. With a lightweight body weighing less than 510g, you can easily carry it anywhere. Its 60-degree tilt measurement capability allows you to handle various complex environments. It supports 4G global network connectivity, eliminating the need to change SIM cards for worldwide internet access. It also utilizes seamless inertial navigation technology, enabling measurement immediately upon startup.



HEIGHT DIAMETER WEIGHT 69mm 100.5mm 0.51kg



IMU60 SUPPORTED

The SP10 is possible to measure points with an inclination of the pole up to 60° even in harsh environments and in the presence of magnetic fields.



SMART SIZE

The SP10 is an intelligent, high precision data acquisition receiver that offers greater freedom of movement and flexibility.



4G MODEM

Featuring the GSM 4G modem, for a fully integrated communications choice, combined with a light and modern design.



EFFICIENT MEASUREMENT

With seamless inertial navigation, there's no need for calibration, which make you be raedy to measure upon startup.

CHARACTERISTIC



- Qualcomm Cortex-A7
- Linux intelligent system



- BDS,GPS,GLONASS, GALILEO,QZSS
- · 4G, Bluetooth, WiFi



- Centimeter level positioning
- Positioning accuracy of less than 2cm within the tilt range of 60°



- High-capacity lithium battery
- ultra long battery endurance



- Solid magnesium alloy shell
- In line with IP65 design requirements, safe and reliable



The C100 Controller is a rugged multifunctional data controller with design of 5.5 inch sunlight readable HD touch screen and an alphanumerical keypad. Equipped with powerful Octa-core processor and Android operating system. With professional IP67 rating, it is robust and reliable for outdoor harsh environment. The large capacity lithium battery guarantees more than 15 hours of field working for a whole day of multiple surveying tasks.

KEY FEATURES

- · 5.5-inch sunlight readable HD touch screen
- 8-core 2.0GHz CPU
- Android 11 operating system
- 3GB RAM + 32GB ROM
- 13MP rear camera
- IP67 certified grade, water/shock/dust proof
- 7700mAh
- · Wi-Fi, Bluetooth and 4G
- USB Type-C.







	ITEM	SPECIFICATION	REMARKS
HARDWARE SYSTEM OS		Qualcomm Cortex-A7 Linux	
GNSS	GPS GLONASS BDS GALILEO QZSS Channel Data format Correction I / O Protocol Data update frequency Recapture Time Cold Boot	L1C/A, L2P, L5 L1, L2 B1I, B2I, B3I, B1C, B2a E1, E5a, E5b L1, L2, L5 1408 NMEA-0183 RTCM3.X 5Hz(max) <1s <40s	
POSITIONING ACCURACY	Single(RMS) DGPS(RMS) RTK(RMS) Time Accuracy(RMS) Static Accuracy(RMS) Speed Accuracy(RMS) Tilt compensation Accuracy (within 60°)	Horizontal: 1.5m Vertical: 2.5m Horizontal: 0.4m Vertical: 0.8m Horizontal: ±(8mm+1ppm) Vertical: ±(15mm+1ppm) 10ns Horizontal: ±(2.5mm+0.5ppm) Vertical: ±(5mm+0.5ppm) 0.2m/s <2cm	
SYSTEM	Bluetooth WIFI Network Storage	BR+EDR+BLE 802.11 b/g/n LTE FDD: B1/2/3/5/8 LTE TDD: B38/39/40/41 GSM: 900/1800MHz 32GB	
INDICATOR	Power Indicator Satellite Indicator Data link Indicator Bluetooth Indicator	Show power status Show position status Show differential signal status Show Bluetooth status	
BATTERY	Battery Work time Charge	3.7V, 9600mAh More than 16 hours (Typical, Rover , GSM) MTK PE + 1.1/2.0 9V/2A USB PD 12V/1.25A 5V/3A	The static working mode supports continuous data collection for 24 hours under full power Support fast charging adapter and adaptively and dynamically adjust charging current
ENVIRONMENT	Working Temperature Storage Temperature Shock Protection	-20°C~+60°C -40°C~+85°C Withstand 1.5M pole drop IP65	
PHYSICAL	Material Dimension(mm) Weight(g)	Magnesium alloy main body, ABS/PC top cover 100.5*100.5*69 510	

Manufacturers may update parameters at any time, please refer to the latest product information.

