





P8Global

4G Full Band Portable RTK Receiver



P8Global Portable RTK Receiver

P8Global is a portable intelligent positioning terminal developed based on BDS high-precision positioning technology. The main unit is lightweight and compact, making it easy to carry around. It supports tracking of signals from all satellite constellations with 1408 channels, built-in high-precision IMU supports tilt measurement, providing centimeter-level positioning accuracy. It caters to various measurement and layout tasks such as road construction, power line surveying, site leveling control, CAD applications, railway stakeout, and etc.

CHARACTERISTIC

Linux intelligent system

Qualcomm Cortex-A7 + Linux, the intelligent system platform, brings efficient computing and unlimited expansion of product functions to users.

Centimeter-level Positioning

Equipped with a compact and omnidirectional helical antenna, it supports tracking signals from all constellations and frequencies. With 1408 channels, it can simultaneously receive BDS, GPS, GLONASS, GALILEO, QZSS, SBAS and NavIC(IRNSS) signals. It enables full constellation positioning, supports base station differential correction, and can integrate with the GBAS. The accuracy can reach centimeter-level precision.

Qualcomm 4G Full Band Modem

The Receiver supports Qualcomm 4G Full Band Modem, Bluetooth connectivity for communication and control purposes. It can be combined with a cloud server to enable remote monitoring, configuration, and alerts for the main unit.

Compact & portable

The P8Global Portable RTK Receiver weighs only 176g, making it convenient for portable use. It also has low power consumption. With a built-in 2500mAh lithium battery, the device can work continuously for over 12 hours.

Tilt Measurement

The P8Global is equipped with a built-in intelligent high-precision inertial navigation module, providing real-time tilt compensation that enhances the accuracy of RTK measurements. Providing positioning accuracy of less than 2cm within a tilt range of 60 degrees.



P8Global GNSS Receiver

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GIS APPLICATION AREA



- S Engineering Survey
- Agricultural Mapping



SPECIFICATION

SYSTEM		
HARDWARE SYSTEM	ARM Cortex-A7 1.8GHz	
OS	Linux	
GNSS		
GPS	L1 C/A, L1C, L2C, L2P(Y), L5	
GLONASS	G1, G2, G3	
BDS	B1I, B2I, B3I, B1C, B2a,B2b(PPP)	
GALILEO	E1, E5a, E5b, E6(PPP)	
QZSS	L1/C/A, L2C, L2C, L5	
SBAS	L1C/A	
IRNSS	L5(Require specialized firmware)	
Channel	1408	
Data Format	NMEA-0183	
Correction I/O Protocol	RTCM 3.X	
Data Update Frequency	5Hz(max)	
ACCURACY		
SINGLE (RMS)	Horizontal: 1.5m / Vertical: 2.5m	
RTK (RMS)	Horizontal: ± (8mm+1ppm) Vertical: ± (15mm+1ppm)	
Tilt Compensation Accuracy(within 60°)	<2cm	
SYSTEM		

Accuracy(within 60°)	<2cm	
SYSTEM		
Bluetooth	BR+EDR+BLE	
Network	LTE FDD:B1/2/3/4/5/7/8/12/13/18/ 19/20/25/26/28 LTE TDD:B38/39/40/41 WCDMA:B1/2/4/5/6/8/19	
	GSM:B2/3/5/8	

INDICATOR		
Power Indicator	Show power status	
Satellite Indicator	Show position status	
Data Link Indicator	Show differential signal status	
Bluetooth Indicator	Show Bluetooth status	
ENVIRONMENT		
Work Temperature	-20°C~+60°C	
Storage Temperature	-40°C~+85°C	
Protection	IP67	
PHYSICAL		
Materials	PC+ABS	
Dimension	60mm*41.3mm*126.3mm (Height including helical antenna)	
Weight	176g (Weight including helical antenna)	
BATTERY		
Battery	7.4V, 2500mAh	
Endurance	More than 12 hours	
Charging	5V/2A	
ACCESSORIES		
P8Global Device	1SET	
Full-band Helical Antenna	1PCS	
Plumb Rod Adapter	1PCS	
5V/2A USB Power Adapter	1PCS	

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



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