

The P8Glo 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, 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 more.



Characteristic

Integrated Hardware & Software

Based on fully autonomous domestic hardware and the FreeRTOS intelligent system platform, this device provides users with efficient computing power and the ability to expand product functionality infinitely.

Centimeter-level Positioning

The P8Glo Portable RTK Receiver is equipped with a compact and omnidirectional helical antenna. that supports tracking signals from all constellations and frequencies. With 1408 channels, it can simultaneously receive BDS, GPS, GLONASS, GALILEO and QZSS signals. It enables full constellation positioning, supports base station differential correction, and can integrate with the GBAS. The accuracy can reach centimeter-level precision.

Multipurpose

The Receiver supports 4G CAT4 network, 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 P8Glo Portable RTK Receiver weighs only 141g, making it convenient for portable use. It also has low power consumption. With a built-in 1800mAh lithium battery, the device can work continuously for over 8 hours.

IP67 Design

Industrial design, solid magnesium alloy shell, in line with IP67 design requirements, safe and reliable.



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ITEM		SPECIFICATION
HARDWARE SYSTEM		ESP32 + ASR ARM
OS		FreeRTOS
GNSS	GPS	L1C/A, L2P(W), L5
	GLONASS	L1, L2
	BDS	B1I, B2I, B3I, B1C, B2a
	GALILEO	E1, E5a, E5b
	QZSS	L1, L2, L5
	Data Format	NMEA-0183
	Correction I / O Protocol	RTCM3.X
	Data Update Frequency	5Hz
POSITIONING ACCURACY	Single (RMS)	Horizontal: 1.5m
	RTK (RMS)	Horizontal: 0.8cm+1ppm Vertical: 1.5cm+1ppm
SYSTEM	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
	Bluetooth	BR+EDR
INDICATOR	Power Indicator	Show Power Status
	Satellite Indicator	Show Position Status
	Data link Indicator	Show Differential Signal Status
	Bluetooth Indicator	Show Bluetooth Status
ENVIRONMENTAL	Work Temperature	-20℃~+60℃
	Storage Temperature	-40℃~+85℃
	Protection	IP67
PHYSICAL	Material	PC+ABS
	Dimension	53.8mm*37mm*117.5mm (Height Including Helical Antenna)
	Weight	143g (Weight Including Helical Antenna)
BATTERY	Battery	7.4V 1800mAh
	Work Time	More than 8 hours
	Charge	5V 2A
A FULL SET	P8Glo Device	1 SET
	Full-band Helical Antenna	1 PCS
	Plumb Rod Adapter	1 PCS
	5V/2A USB Power Adapter	1 PCS
	USB Type C Charging Cable	1 PCS

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

► Equipped with electronic fence system, Toknav's product have area code restrictions. Any issue please contact Toknav or local dealers to verify the specific details.



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