

E800 GNSS Receiver

E800 is an integrated intelligent receiver of a new generation of surveying products. It is a high-end of RTK receiver, that has a magnesium alloy structural frame. It has a highly integrated structure that provides it with excellent heat dissipation and anti-interference characteristics, high precision, increased stability, strong compatibility and environmental applicability. Built-in 5W radio Up to 10km transmission distance, 410-470MHz full-band, compatible with major transmission protocols.

Superior anti-interference

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Stronger signal acquisition capability in harsh environments.

Built-in battery (13600mAh) For longer lasting operation.

Magnesium-aluminum alloy design Excellent heat dissipation.

Built-in 4G network module Global 4G network module, support NTRIP mode.

LCD Display Sunlight viewable screen, touchscreen enabled.

Built-in Bluetooth, WiFi communication module

With smart WebUI, it will be more convinient to view device status and configurate the working mode.

Tilt survey

The E800 receiver integrates MEMS sensor, combined with a new tilt survey algorithm and SurPad4.0 software operation, the accuracy of coordinate data can be easily achieved within 60° tilt angle.

Product Specification

GNSS Performa	nce	Internal Radio	
Channel	336	Frequency Range	410 - 470 MHz
Satellite Tracking	GPS: L1CA / L2E/L2C/L5	Channel Spacing	12.5 KHz / 25 KHz
	GLONASS: L1CA / L2CA / L3 CDMA	Emitting Power	2 W / 5 W
	BeiDou: B1 / B2 / B3	Operating Range	5-10km typically
	GALILEO: E1 / E5A / E5B / E5AltBOC / E6	Communication	
	SBAS: L1CA / L5	Memory	Internal 32G
	QZSS: L1CA / L1SAIF / L1C / L2C / L5	5-pin	External radio and external power, RS232
	NAVIC: L5	Туре-С	Charge and access internal storage
Update rate	50Hz	SIM Card	Micro SIM card
Performance (R	MS) ¹	Cellular	Global Version
Signal Reacquisition	< 1 sec		GSM/UMTS/LTE
Hot Start	< 10 sec	Bluetooth	BT 5.0, BLE
Initialization Reliability	/ > 99.9%	WIFI	802.11ac/n(HT20)/a/b/g
Static Accuracy	Horizontal:2.5 mm + 0.5 ppm	WebUI	To manage settings, status,
	Vertical: 5 mm + 0.5 ppm		update firmware and download data
RTK Accuracy	Horizontal:8 mm + 1 ppm	Voice	Support smart voice broadcast
	Vertical: 15 mm + 1 ppm	MEMS	Support, up to 60°
Code Differential	Horizontal: 0.25 m	NMEA Output	GGA, ZDA, GSA, GSV, GST, VTG,
SBAS Accuracy	Horizontal:0.3 m		RMC, GLL
Power Supply		Physical Specific	ations
Battery	Built-in rechargeble battery 7.2V/13.6Ah	Dimension	154 * 154 * 76mm (L * W * H)
Voltage	9~28 V DC, with over-voltage protection	Weight	1.5KG
Operating period	Typically 12 hours - 2W, base radio	Screen	1.46" colorful, touchable screen
	Typically 8 hours - 5W, base radio	Operating Temperature	-30 $^\circ\mathrm{C}~\sim$ +65 $^\circ\mathrm{C}$
	Typically 15 hours - base network mode	Storage Temperature	-40 C ~ +80 C
	Typically 15 hours - rover radio	Water/ Dust Proof	IP67
	Typically 15 hours - rover network	Shock	Survive a 2 m (6.6 ft) pole drop,
Charge Time	PD quick charge, typically 5 hours		1.2 m (3.9 ft) free fall
		Vibration	Vibration resistant
		Humidity	Up to 100%
		Indicator	4 indicators, GNSS/BT/UHF/PWR
		Certificate	CE, FCC, IP67

Illustrations and technical specifications are subject to change without notice.

1. The accuracy claimed is based on the optimal environment.



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