

E800

High-performance RTK Receiver

E800 is a high-performance product by eSurvey GNSS. The durable IP67 design makes it possible to work in various of environments. Multiconstellation and frequency tracking always gives a Fixed solution for your job. The colorful touch screen is convenient for quick configurations.

Multi-constellation and multi-frequency

With 800 channels of GNSS tracking, E800 provides stable and reliable accuracy. All GNSS signals are coming with standard including GPS, BDS, GLONASS, GALILEO, QZSS, IRNSS and SBAS.

Batteries for Long Time Operation

E800 is equipped with 13600 mAh Li-ion battery. There is no warry for long time field operation up to 15 hours. The USB type-c quick charge promise a full charge within 5 hours.

MEMS Dynamic Tilt Survey

eSurvey's innovation tilt survey solution provides a surprising experience. The sensor is adapted to various of working environments and can be ready within 10 sec. Maximum 60° incline angle ensures a tilt-to-go survey without stopping your work.

L-band Atlas

Atlas is a service to provide global precision correction service over L-band satellites. With ATLAS subscription, E800 is able to achieve centimeter accuracy without any base station.

aRTK

Powered by Atlas, the innovative aRTK technology operates on any Atlas-capable device by enabling it to maintain RTK-level accuracy, availability, and reliability when RTK corrections fail without additional

5-watt Internal Radio

The 5-watt internal radio modem extremely extend the working range up to 15Km. User can adjust the radio power between 2w and 5w depending on the demand.

Colorful Touch Screen

The 1.45" colorful touch screen is viewable in sunlight. The position status is under control with a glimpse. Working mode is settle down by simply sliding the screen.

Rugged Design

E800 main body is using magnesium materials to provide strong shock and vibration resistant characteristics. IP67 certification ensures operation in various of tough environments.

Product Specification

GNSS		Туре	TX and RX
Satellites Tracking	GPS: L1CA/L1P/L1C/L2P/L2C/L5 BDS: B1I/B2I/B3I/B1C/B2a/B2b/ ACEBOC GLONASS: G1/G2/G3, P1/P2 GALILEO: E1/E5a/E5b/E6/ALTBOC	Frequency Range	410 ~ 470 MHz
		Channel Spacing	12.5 KHz / 25 KHz
		Emitting Power	5 W
		Operation Range	8 ~ 10 Km typically
			15Km with optimal conditions ²
	QZSS: L1CA/L1C/L2C/L5/LEX	Protocol Satel, PCC, TrimTalk, TrimMark III, South, HiTarget	·
	IRNSS: L5		
	SBAS1: L1/L5 L-Band: Atlas H10/H30/Basic		
Channels	800	Internet Modem	
Signal Reacquisition	< 1 sec	 Support Band 	Global GSM /WCDMA/LTE
Cold Start	< 60 sec		
Warm Start	< 30 sec	 Communication 	
Hot Start	< 10 sec	Bluetooth	BT 5.0, BLE
RTK Signal Initialization	< 8 sec	WIFI	802.11 ac/n(HT20)/a/b/g
Initialization Reliability	> 99.9%	SIM Card	Micro SIM card
Update Rate	10 Hz standard, up to 50 Hz		Connect to external radio and power,
Operation System	Linux	— 5-pin Port	NMEA output
Internal Memory	32 GB	Type-C Port	Charge and internal storage access
The contact with the contact of y	32 00	TNC Port	Connect to internal radio antenna
Performance		— Web UI	View status, update firmware, set up
	H: 2mm + 0.1 ppm		working mode, download data
High Precision Static	V: 3mm + 0.4 ppm	Intelligent Voice	Broadcast working status
Static/Fast Static	H: 2.5mm + 0.1 ppm	NMEA Output	GGA, ZDA, GSA, GSV, GST, VTG, RMC,
	V: 3.5mm + 0.4 ppm		GLL, Binary
RTK Code Differential	H: 8mm + 1.0 ppm	Correction Data	CMR, CMR+, RTCM2, RTCM3, RTCM32
	V: 15mm + 1 ppm	- MEMS	Fast initialization, dynamic tilt survey
	H: 0.25 m		up to 60°
Code Differential	V: 0.45 m		
SBAS	H: 0.3 m	Physical	
	V: 0.6 m	_ Dimension	154 mm x 154 mm x 76 mm
L-Band	Atlas H10: 4 cm RMS	Weight	1.5 kg
	Atlas H30: 15 cm RMS	Screen	1.45" colorful touchable screen
	Atlas Basic: 30 cm RMS	_ Operating Temperature	-40°C ∼ +65°C
De la Caral		Storage Temperature	-45°C ∼ +80°C
Power Supply	I Be describe a set of the set of	- Water/Dust Proof	IP67
Battery	Rechargeable and built-in Lithium-ion	Shock	Survive a 2 m drop on concrete floor
	battery, 7.2 V ~ 13.6 Ah	- Vibration	Vibration resistant
Voltage	9~28 V DC	Humidity	Up to 100%
Working Time	with over-voltage protection	- Indicators	Satellites, datalink, battery, Bluetooth
Working Time	Up to 15 hours		Power button, short press to voice
Charging Time	Typically 5 hours	_ Button	broadcast status
		Certificate	CE, FCC, NGS Calibration

- 1 SBAS supports WAAS, EGNOS, GAGAN, SDCM, MSAS.
- 2. Depend on the environment and electromagnetic interference.



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