



E600

Rugged & Full-featured RTK Receiver

E600 is an innovation product by eSurvey GNSS. The durable IP67 design makes it possible to work in various of environments. Multi constellation and frequency tracking always gives a Fixed solution for your job. Dual hot-swap battery demands a whole day' s work.

Multi-constellation and multi-frequency

With 800 channels of GNSS tracking, E600 provides stable and reliable accuracy. All GNSS signals are coming with standard including GPS, BDS, GLONASS, GALILEO, QZSS, IRNSS and SBAS.

Dual Hot-swap Intelligent Batteries

Two hot-swap batteries ensure field operation up to 12 hours. Use can change battery anytime without interrupting the work. Battery level can be checked on the LED indicators by a simple click.

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, E600 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 cost.

Web UI

It is able to view position status, set up working mode, download data and update firmware from Web user interface with any phone, tablet or PC

Intelligent Voice

E600 will broadcast voice automatically to remind user the solution status is changed. It is also able to manually broadcast current working mode and solution status by short pressing power button.

Rugged Design

E600 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		Internal Radio	
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 QZSS: L1CA/L1C/L2C/L5/LEX IRNSS: L5 SBAS1: L1/L5 L-Band: Atlas H10/H30/Basic	Type	TX and RX
Channels	800	Frequency Range	410 ~ 470 MHz, 902.4 ~ 928 MHz
Signal Reacquisition	< 1 sec	Channel Spacing	12.5 KHz / 25 KHz
Cold Start	< 60 sec	Emitting Power	1 W
Warm Start	< 30 sec	Operation Range	3 ~ 5 Km typically 10 Km with optimal conditions ²
Hot Start	< 10 sec	Protocol	Satel, PCC, TrimTalk, TrimMark III, South, HiTarget
RTK Signal Initialization	< 8 sec	Internet Modem	
Initialization Reliability	> 99.9%	Support Band	Global GSM /WCDMA/LTE
Update Rate	10 Hz standard, up to 50 Hz	Communication	
Operation System	Linux	Bluetooth	BT 5.0, BLE
Internal Memory	8 GB	WIFI	802.11 b/g/n(HT20)/ac
Performance		SIM Card	Micro SIM card, Global 4G
High Precision Static	H: 2 mm + 0.1 ppm V: 3 mm + 0.4 ppm	SD Card	Up to 32 GB
Static/Fast Static	H: 2.5 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm	5-pin Port	Connect to external radio and power
RTK	H: 8 mm + 1 ppm V: 15 mm + 1 ppm	7-pin Port	NMEA output, internal storage access
Code Differential	H: 0.25 m V: 0.45 m	TNC Port	Connect to internal radio antenna
SBAS	H: 0.3 m V: 0.6 m	Web UI	View status, update firmware, set up working mode, download data
L-Band	Atlas H10: 4 cm RMS Atlas H30: 15 cm RMS Atlas Basic: 30 cm RMS	Intelligent Voice	Broadcast working status
Power Supply		NMEA Output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary
Battery	Dual rechargeable and replaceable Li-ion battery, 7.2 V ~ 3400 mAh *2	Correction Data	CMR, CMR+, RTCM2, RTCM3, RTCM32
Voltage	9~28 VDC with over-voltage protection	MEMS	Fast initialization, dynamic tilt survey up to 60°
Working Time	Up to 10 hours	Physical	
Charging Time	4 hours	Dimension	Φ156 mm x H76 mm
		Weight	1.3 kg with 2 batteries 1.1 kg without battery
		Operating Temperature	-40°C ~ +65°C
		Storage Temperature	-45°C ~ +80°C
		Water/Dust Proof	IP67
		Shock	Survive a 2 m drop on concrete floor
		Vibration	Vibration resistant
		Humidity	Up to 100%
		Indicators	Satellites, datalink, battery, Bluetooth
		Button	Power button, short press to voice broadcast status
		Certificate	CE, FCC, NGS Calibration

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

OUR OFFICES

Montreal

10700, Secant St., Montreal
Quebec, Canada, H1J 1S5
Tél.: 514 354-2511 | 1 800 463-4363 | info@geneq.com



Vaughan

910 Rowntree Dairy Rd., Unit #15
Vaughan, Ontario, Canada, L4L 5W5
Tél.: 365 527-2508 | 1 855 527-5808 | sales@geneq.com