



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	
	GPS: L1CA/L1P/L1C/L2P/L2C/L5	Туре	TX and RX
Satellites Tracking	BDS: B1I/B2I/B3I/B1C/B2a/B2b/	Frequency Range	410 ~ 470 MHz, 902.4 ~ 928 MHz
	ACEBOC	Channel Spacing	12.5 KHz / 25 KHz
	GLONASS: G1/G2/G3, P1/P2	Emitting Power	1 W
	GALILEO: E1/E5a/E5b/E6/ALTBOC	Operation Range	3 ~ 5 Km typically
	QZSS: L1CA/L1C/L2C/L5/LEX		10 Km with optimal conditions ²
	IRNSS: L5		Satel, PCC, TrimTalk, TrimMark III,
	SBAS1: L1/L5	Protocol	South, HiTarget
Channala	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 b/g/n(HT20)/ac
Initialization Reliability	> 99.9%	SIM Card	Micro SIM card, Global 4G
Update Rate	10 Hz standard, up to 50 Hz	SD Card	Up to 32 GB
Operation System	Linux	5-pin Port	Connect to external radio and power
Internal Memory	8 GB	7-pin Port	NMEA output, internal storage access
Performance		TNC Port	Connect to internal radio antenna
Performance	H: 2 mm + 0.1 ppm	- INC FOIL	View status, update firmware, set up
High Precision Static	V: 3 mm + 0.4 ppm	Web UI	working mode, download data
	H: 2.5 mm + 0.1 ppm	Intelligent Voice	Broadcast working status
Static/Fast Static	V: 3.5 mm + 0.4 ppm	The ingent voice	GGA, ZDA, GSA, GSV, GST, VTG, RMC,
RTK	H: 8 mm + 1 ppm	 NMEA Output 	GLL, Binary
	V: 15 mm + 1 ppm	Correction Data	CMR, CMR+, RTCM2, RTCM3, RTCM32
Code Differential	H: 0.25 m	MEMS	Fast initialization, dynamic tilt survey
	V: 0.45 m		up to 60°
	H: 0.3 m	- -	
SBAS	V: 0.6 m	Physical	
L-Band	Atlas H10: 4 cm RMS	Dimension	Ф156 mm x H76 mm
	Atlas H30: 15 cm RMS	Weight	1.3 kg with 2 batteries
	Atlas Basic: 30 cm RMS		1.1 kg without battery
		Operating Temperature	-40°C ~ +65°C
Power Supply		Storage Temperature	-45°C ~ +80°C
Battery	Dual rechargeable and replaceable	Water/Dust Proof	IP67
	Li-ion battery, 7.2 V ~ 3400 mAh *2	- Shock	Survive a 2 m drop on concrete floor
Voltage	9~28 VDC	Vibration	Vibration resistant
	with over-voltage protection	- Humidity	Up to 100%
Working Time	Up to 10 hours	- Indicators	Satellites, datalink, battery, Bluetooth
Charging Time	4 hours	_	Power button, short press to voice
		Button	broadcast status
		Certificate	CE, FCC, NGS Calibration

^{1.} SBAS supports WAAS, EGNOS, GAGAN, SDCM, MSAS.

^{2.} Depend on the environment and electromagnetic interference.

