



E600 GNSS Receiver

The E600 receiver can track all current satellite constellations and signals, including GPS/GLONASS/BEIDOU/GALILEO/QZSS, etc. The new generation of Athena RTK engine effectively improves RTK initialization success rate and initialization accuracy in harsh environments, and supports long-baseline RTK solution, which is an effective guarantee for high-efficiency and high-precision RTK operations.

Multi-constellation satellite tracked
GPS,GLONASS,BDS,GALILEO,SBAS,QZSS

Built-in radio supports more protocols
Transmit power 1W, effective working distance is 5km in the optimal work environment.

Intelligent dual batteries

Support up to 10 hours of work time, battery power can be read directly from the indicator light on the battery, the battery models of handheld device and host are same.

Built-in 4G network module

More stable network communication.

Web UI

Access the Web page, complete the receiver configuration, download data, upgrade firmware, view status, etc. through the mobile phone, tablet and other handheld devices.

Tilt survey

The E600 receiver integrates an electronic bubble sensor, combined with a new tilt survey algorithm and surpad software operation. No calibration is required before measurement, the accuracy of coordinate data can be easily achieved within 30 ° tilt angle.

Product Specification

GNSS Performance			
Model	E600-N	E600-H	E600-T
Channel	555	600	336
Satellite Tracked	GPS: L1CA/L1C/L2C/L2P/L5 GLONASS:L1CA/L2C/L2P/L3/L5 BeiDou:B1/B2/B3 Galileo:E1/E5/AltBOC/E5a/E5b/E6 QZSS: L1CA/L1C/L2C/L5/L6	GPS:L1CA/L1P/L1C/L2P/L2C/L5 GLONASS: G1/G2, P1/P2 BeiDou:B1/B2/B3 GALILEO: E1BC/E5a/E5b QZSS: L1CA/L2C/L5/L1C	GPS: L1 CA/L2E/L2C/L5 GLONASS:L1CA/L2CA/L3 CDMA BeiDou:B1/B2/B3 Galileo:E1/E5A/E5B/E5AltBOC/E6 NAVIC: L5 SBAS: L1/L5 L-BAND QZSS: L1CA/L1SAIF/ L1C/ L2C/ L5
High Precision static	Horizon: 2mm + 0.1 ppm Vertical: 33mm + 0.4ppm	Horizon: 2mm + 0.1 ppm Vertical: 3mm + 0.4ppm	Horizon: 2mm + 0.1 ppm Vertical: 3mm + 0.4ppm
Static Accuracy	Horizon: 2mm+0.5ppm RMS Vertical: 3mm+0.5ppm RMS	Horizon: 2mm+0.5ppm RMS Vertical: 3mm+0.5ppm RMS	Horizon: 2mm+0.5ppm RMS Vertical: 3mm+0.5ppm RMS
RTK Accuracy	Horizon: 4mm+1ppm RMS Vertical: 8mm+1ppm RMS	Horizon: 4mm+1ppm RMS Vertical: 8mm+1ppm RMS	Horizon: 4mm+1ppm RMS Vertical: 8mm+1ppm RMS
SBAS Accuracy	Horizon: 0.6m RMS	Horizon: 0.3m RMS	Horizon: 0.5m RMS
Code Differential Accuracy	Horizon: 0.4m RMS	Horizon: 0.25m RMS	Horizon: 0.25m RMS
Update rate	Up to 100Hz	Up to 50Hz	Up to 50Hz
Power Supply		Communication	
Battery	Dual rechargeable batteries 7.2V/3400mAh*2	Memory	Internal 8G; Removable memory support TF card
Working time	Up to 10 hours	Bluetooth	V2.1+EDR / V4.1 Dual Mode, Class2
Input	9~28V DC,with over-voltage protection	WIFI	802.11 b/g/n
Physical		4G	GSM/GPRS/EDGE/LTE/UMTS/WCDMA
Dimension	156mm*76mm	Internal UHF	Transmit power 1W, Frequency 410-470MHz
Weight	1.2KG with 2 batteries inside		Work Distance: 5km in optimal environment
Data Interface		Web UI	To manage the status and settings, upgrade firmware,data download
TNC	For UHF Antenna	Electric Bubble	Enable
5-pin	External radio and external power	Tilt Survey	Support
7-pin	Connect to PC controller and other external device, such as Echo Sounder		
Others	SIM slot and TF slot	Operating Temperature	-45°C ~ +65°C
Buttons	Power button	Storage Temperature	-50°C ~ +80°C
Indicator	4 indicators, Satellites, Datalink, Bluetooth, WIFI Status	Water/ Dust Proof	IP67 / IP68 (Russian Version)
		Shock	Survive a 2 m (6.6 ft) pole drop, 1.2 m (3.9 ft) free fall
		Vibration	Vibration resistant
		Humidity	100%,condensing

