



# 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

Global 4G network module.

## 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.

## MEMS Tilt Survey

The E600 receiver integrates with MEMS sensor to provide real time tilt survey result. The accuracy of coordinate data can be easily achieved within 60° tilt angle.

# Product Specification

GNSS Receiver		Internal Radio	
Model	E600-H	Frequency Range	410 - 470 MHz, 902.4~928MHz
Channel	800	Channel Spacing	12.5 KHz / 25 KHz
Satellite Tracking	GPS: L1C/A, L1C, L1P, L2C, L2P, L5	Emitting Power	0.5 W / 1 W
	BDS: B1I, B2I, B3I, B1C, B2a, B2b, ACEBOC	Operating Range	3 - 5 km typically
	GLONASS: G1, G2, G3	Communication	
	GALILEO: E1, E5a, E5b, ALTB0C, E6	Memory	Internal 8 GB, expansion up to 32 GB
	QZSS: L1C/A, L1C, L2C, L5, LEX	5-pin	Connect to external power and radio
	SBAS	7-pin	NMEA output and data download
	IRNSS	SIM Card	Micro SIM card
	L-BAND: ATLAS H10, H30, H50	Cellular	Global Version
Update rate	10 Hz, up to 50 Hz		GSM/GPRS/EDGE/LTE/UMTS/WCDMA
Performance (RMS) <sup>1</sup>		Bluetooth	V2.1+EDR / V4.1 Dual Mode, Class 2
Signal Reacquisition	< 1 sec	WIFI	802.11 b/g/n
Hot Start	< 10 sec	WebUI	Update firmware, manage settings and status, download data
Initialization Reliability	> 99.9%	Voice	Support TTS voice broadcast
Static Accuracy	Horizontal: 2.5 mm + 0.1 ppm	MEMS	Support, up to 60°
	Vertical: 3.5 mm + 0.4 ppm	NMEA Output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL
RTK Accuracy	Horizontal: 8 mm + 1 ppm	Physical Specifications	
	Vertical: 15 mm + 1 ppm	Dimension	Φ 156 mm x 76 mm
Code Differential	Horizontal: 0.25 m	Weight	1.3 Kg with 2 batteries inside 1.1 Kg without battery
SBAS Accuracy	Horizontal: 0.3 m	Operating Temperature	-30 C ~ +65 C
Power Supply		Storage Temperature	-40 C ~ +80 C
Battery	Dual rechargeable and replaceable Lithium-ion batteries, 7.2 V - 3400 mAh * 2	Water/ Dust Proof	IP67
Voltage	9~28 V DC, with over-voltage protection	Shock	Survive a 2 m pole drop on concrete floor 1.2 m free drop
Working Time	Up to 10 hours	Vibration	Vibration resistant
Charge Time	Typically 4 hours	Humidity	Up to 100%
		Indicator	Satellites, Datalink, Battery level, Bluetooth
		Certificate	CE, FCC, IP67

Illustrations and technical specifications are subject to change without notice.

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



Shanghai e-Compass Science & Technology Co., Ltd  
Building 4, No. 651 Wanfang Rd, Minhang District, Shanghai 201112, China

Tel: +86 21 54467215  
Email: info@esurvey-gnss.com  
Web: www.esurvey-gnss.com  
Edition: 20200702