



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
Channel	600	Channel Spacing	12.5 KHz / 25 KHz
Satellite Tracking	GPS:L1CA/L1P/L1C/L2P/L2C/L5	Emitting Power	0.5 W / 1 W
	GLONASS: G1/G2, P1/P2	Operating Range	3 - 5 km typically
	BeiDou:B1/B2/B3	Communication	
	GALILEO: E1BC/E5a/E5b	Memory	Internal 8 GB, expansion up to 32 GB
	SBAS: L1 CA/L5	5-pin	Connect to external power and radio
	QZSS: L1CA/L2C/L5/L1C	7-pin	NMEA output and data download
	L-BAND: ATLAS H10/H30/H50	SIM Card	Micro SIM card
Update rate	5 Hz, up to 20 Hz	Cellular	Global Version
Performance (RMS) ¹			GSM/GPRS/EDGE/LTE/UMTS/WCDMA
Signal Reacquisition	< 1 sec	Bluetooth	V2.1+EDR / V4.1 Dual Mode, Class 2
Hot Start	< 10 sec	WIFI	802.11 b/g/n
Initialization Reliability	> 99.9%	WebUI	Update firmware, manage settings and status, download data
Static Accuracy	Horizontal: 2.5 mm + 0.1 ppm	Voice	Support TTS voice broadcast
	Vertical: 3.5 mm + 0.4 ppm	MEMS	Support, up to 60°
RTK Accuracy	Horizontal: 8 mm + 1 ppm	NMEA Output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL
	Vertical: 15 mm + 1 ppm	Physical Specifications	
Code Differential	Horizontal: 0.25 m	Dimension	Φ 156 mm x 76 mm
SBAS Accuracy	Horizontal: 0.3 m	Weight	1.3 Kg with 2 batteries inside 1.1 Kg without battery
Power Supply		Operating Temperature	-30 C ~ +65 C
Battery	Dual rechargeable and replaceable Lithium-ion batteries, 7.2 V - 3400 mAh * 2	Storage Temperature	-40 C ~ +80 C
Voltage	9~28 V DC, with over-voltage protection	Water/ Dust Proof	IP67
Working Time	Up to 10 hours	Shock	Survive a 2 m pole drop on concrete floor 1.2 m free drop
Charge Time	Typically 4 hours	Vibration	Vibration resistant
		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: 20191219