



E100

GNSS Receiver

Our E100 intelligent receiver supports multiple constellations, built in large capacity battery, 4G network module and has an android operating system. It is compact and has a rugged magnesium alloy body for excellent protection and performance.

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

Built-in 4G network module
Faster network login, more stable network communication

Made of magnesium alloy material
Lighter and stronger

Supports L-Band satellite signal
One receiver can achieve centimeter-level positioning

Web UI
Access the Web page, complete receiver configuration, download data, firmware upgrade, view status, etc. through a smartphone, tablet or other handheld devices

Support TTS intelligent voice broadcast
Broadcast content can be customized by users

Product Specification

GNSS Receiver		Communication	
Channel	488	5-pin	Connect to external power and radio
Satellite Tracking	GPS: L1CA/L1P/L1C/L2P/L2C		NMEA data output
	GLONASS: G1/G2, P1/P2	Type-C	For charging and data transmission
	BeiDou: B1/B2/B3	Sim Card	Micro SIM card
	GALILEO: E1BC/E5a/E5b	Cellular	LTE FDD: B1/B3/B5/B8
	SBAS: L1/L5		LTE TDD: B38/B39/B40/B41
	QZSS: L1CA/L2C/L5/L1C		TD-SCDMA: B34/B39
	L-Band: ATLAS H10/H30/H50		CDMA: BC0
Update Rate	5 Hz, Up to 20 Hz		WCDMA: B1/B8
Signal Reacquisition	< 1 sec		GSM: 900/1800MHz
Hot Start	< 10 sec	Bluetooth	V2.1+EDR / V4.0 dual mode, Class 2
Initialization Reliability	> 99.9%	WIFI	802.11 b/g/n
Internal Memory	8 GB	WebUI	Update firmware, manage settings and status, data download
Performance (RMS) ¹		Voice	Support TTS voice broadcast
Static Accuracy	Horizontal: 2.5 mm+0.1 ppm	Electronic Bubble	Supported
	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 Specification	
	Vertical: 15 mm+1 ppm	Dimensions	φ148 mm x 62 mm
Code Differential	Horizontal: 0.25 m	Weight	900 ± 5 g
	Vertical: 0.45 m	Operation Temperature	-30 C ~ +65 C
SBAS Accuracy	Horizontal: 0.3 m	Storage Temperature	-40 C ~ +80 C
	Vertical: 0.6 m	Water/Dust Proof	IP67
Power Supply		Shock	Survive a 2 m pole drop on concrete floor
Battery	Rechargeable, built-in Lithium-ion battery		1.2 m free fall
	7.2 V - 6900 mAh	Vibration	Vibration resistant
Voltage	9~28 V DC external power input	Humidity	Up to 100%
Working Time	Up to 9 hours	Indicator	Satellites, Datalink, Battery level, Bluetooth
Charge Time	Typically 4 hours	Certificate	CE, IP67

Illustrations and technical specifications are subject to change without notice.

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