



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.

