



E200

Designed for Rover

E200 is a rover receiver by eSurvey GNSS. The durable IP67 design makes it possible to work in various of environments. Multi constellation and frequency tracking always gives a Fixed solution for your job. The Global 4G Network and RX radio makes it suitable as a rover station.

Multi-constellation and multi-frequency

With 800 channels of GNSS tracking, E200 provides stable and reliable accuracy. All GNSS signals are coming with standard including GPS, BDS, GLONASS, GALILEO, QZSS and SBAS.

MEMS Dynamic Tilt Survey

eSurvey's innovation tilt survey solution provides a surprising experience. The sensor is adapted to various of working environments and can be ready within 10 sec. Maximum 60 ° incline angle ensures a tilt-to-go survey without stopping your work.

L-band Atlas

Atlas is a service to provide global precision correction service over L-band satellites. With ATLAS subscription, E200 is able to achieve centimeter accuracy without any base station.

aRTK

Powered by Atlas, the innovative aRTK technology operates on any Atlas-capable device by enabling it to maintain RTK-level accuracy, availability, and reliability when RTK corrections fail without additional cost.

Web UI

It is able to view position status, set up working mode, download data and update firmware from Web user interface with any phone, tablet or PC.

Intelligent Voice

E200 will broadcast voice automatically to remind user the solution status is changed. It is also able to manually broadcast current working mode and solution status by short pressing power button.

Lightweight and Small-size

E200 is light-weight design and is good for hand carrying. The small size design makes it possible for various of applications such as car and machine control.

Rugged Design

E200 main body is using magnesium materials to provide strong shock and vibration resistant characteristics. IP67 certification ensures operation in various of tough environments.

Product Specification

| GNSS | | Internal Radio | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------|
| Satellites Tracking | GPS: L1CA/L1P/L1C/L2P/L2C/L5 BDS: B1I/B2I/B3I/B1C/B2a/B2b/ ACEBOC GLONASS: G1/G2/G3, P1/P2 GALILEO: E1/E5a/E5b/E6/ALTB0C QZSS: L1CA/L1C/L2C/L5/LEX IRNSS: L5 SBAS ¹ : L1, L5 L-Band: Atlas H10/H30/Basic | Type | RX Only |
| Channels | 800 | Frequency Range | 410 ~ 470 MHz |
| Signal Reacquisition | < 1 sec | Channel Spacing | 12.5 KHz / 25 KHz |
| Cold Start | < 60 sec | Protocol | Satel, PCC, TrimTalk, TrimMark III, South, HiTarget |
| Warm Start | < 30 sec | Internet Modem | |
| Hot Start | < 10 sec | Support Band | Global GSM /WCDMA/LTE |
| RTK Signal Initialization | < 8 sec | Communication | |
| Initialization Reliability | > 99.9% | Bluetooth | BT 5.0, BLE |
| Update Rate | 10 Hz standard, up to 50 Hz | WIFI | 802.11 b/g/n |
| Operation System | Linux | SIM Card | Support |
| Internal Memory | 8 GB | 5-pin Port | Connect to external radio and power NMEA data output |
| Performance | | Type-C Port | Charge and data transmission |
| High Precision Static | H: 2 mm + 0.1 ppm V: 3 mm + 0.4 ppm | Web UI | View status, update firmware, set up working mode, download data |
| Static/Fast Static | H: 2.5 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm | Intelligent Voice | Broadcast working status |
| RTK | H: 8 mm + 1 ppm V: 15 mm + 1 ppm | NMEA Output | GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary |
| Code Differential | H: 0.25 m V: 0.45 m | Correction Data | CMR, CMR+, RTCM2, RTCM3, RTCM32 |
| SBAS | H: 0.3 m V: 0.6 m | MEMS | Fast initialization, dynamic tilt survey up to 60° |
| L-Band | Atlas H10: 4 cm RMS Atlas H30: 15 cm RMS Atlas Basic: 30 cm RMS | Physical | |
| Power Supply | | Dimension | Φ152 mm x H92 mm |
| Battery | Rechargeable and built-in Lithium-ion battery, 7.2 V ~ 6800 mAh | Weight | 915 g |
| Voltage | 9~28 VD, with over-voltage protection | Operating Temperature | -40°C ~ +65°C |
| Working Time | RTK: 10 hours Static: 14 hours | Storage Temperature | -45°C ~ +80°C |
| Charging Time | Typically 4 hours | Water/Dust Proof | IP67 |
| | | Shock | Survive a 2 m drop on concrete floor |
| | | Vibration | Vibration resistant |
| | | Humidity | Up to 100% |
| | | Indicators | Satellites, datalink, battery, Bluetooth |
| | | Button | Power button, short press to voice broadcast status |
| | | Certificate | CE, FCC, NGS Calibration |

