



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

