

E800 GNSS Receiver

-survey



- **Built-in radio (5W)**
Up to 10km transmission distance, 410-470Mhz full-band, compatible with major transmission protocols
- **Superior anti-interference ability**
Stronger signal acquisition capability in harsh environments
- **Built-in battery (13000mAh)**
For longer lasting operation
- **Magnesium-aluminum alloy design**
Excellent heat dissipation
- **Built-in 4G network module**
More stable network communication
- **Color LCD display, multi-touch**
- **Built-in Bluetooth, WiFi communication module**
- **Compatible with multi-constellation satellites**

Product Specification

E800 integrated intelligent receiver is a new generation of surveying product that will be launched by our company. It is a high-end of RTK receiver, using magnesium-aluminum alloy. The highly integrated body has excellent ability of heat dissipation and anti-interference, high precision, more stability, strong compatibility and environmental applicability.



GNSS Performance

Channel

- H: 394
- T: 336

Satellite Tracked

- GPS: L1CA/L1P/L1C/L2P/L2C/L5
- GLONASS: G1/G2, P1/P2
- BeiDou: B1/B2/B3
- GALILEO: E1BC/E5a/E5b
- QZSS: L1CA/L2C/L5/L1C
- SBAS: L1 CA/L5
- L-BAND

Static Accuracy

- Horizon: 2.5mm+1ppm RMS
- Vertical: 5mm+1ppm RMS

RTK Accuracy

- Horizon: 8mm+1ppm RMS
- Vertical: 15mm+1ppm RMS

SBAS Accuracy

- Horizon: 0.3m RMS

Code Differential Accuracy

- Horizon: 0.25m RMS

Update rate

- Up to 50Hz

Power Supply

Battery

- Built-in rechargeable battery
- 7.2V/13.6Ah

working time

- Up to 12 hours

Input

- 9~28V DC, with over-voltage protection

Communication

Memory

- Internal 16G; Support TF card, up to 32G

Bluetooth

- V2.1+EDR / V4.1 Dual Mode, Class2

WIFI

- 802.11 b/g/n

4G

- GSM/GPRS/EDGE/LTE/UMTS/W-CDMA

Internal UHF

- TX (2/5W adjustable) & RX, Frequency 410-470MHz

- Work Distance: 10km in optimal environment

Web UI

- To manage the status and settings, upgrade firmware, data download

Electric Bubble

- Enable

Tilt Survey

- Support

Physical

Dimension

- 158mm*158mm*72mm

Weight

- 1.25KG

Data Interface

LCD

- 1.45" TFT LCD VGA (320 x 240) , capacitive touch screen, multi-touch

TNC

- For UHF Antenna

5 pins

- External radio and external power, RS232

Type-C

- DC input@5V/9V/15V/20V, PD3.0, USB OTG, USB2.0, RS232

Buttons

- Power button

Indicator

- 4 indicators, GNSS/BT/UHF/PWR

Environment

Operating Temperature

- -30 C ~ +65 C

Storage Temperature

- -40 C ~ +80 C

Water/ Dust Proof

- IP67

Shock

- Survive a 2 m (6.6 ft) pole drop, 1.2 m (3.9 ft) free fall

Vibration

- Vibration resistant

Humidity

- 100%, condensing