



Apple-sized Receiver

# SE Lite

The apple-sized GNSS receiver SE Lite is a state-of-the-art GNSS receiver that merges industrial-leading inspiring ideas and technologies, offering an efficient and productive solution to no matter amateur or professional.



Z E N I T H  
A L G O R I T H M

Empowered by ZENITH Algorithm, SE Lite is capable to track enormous signals of all constellations with stunningly fast fixing speed even under thick cover of trees or beside tall buildings. Coordinates will be examined twice to ensure an utmost accuracy.

## EZtilt

STEC IMU just eases your work with an ever joyful experience. No need for calibration. No need for initialization. In a few seconds after getting fixed, you are in the EZtilt collecting mode. Just tip the pole end to the point at any pose within 60°, press Collect, and you are free to go to next point.



S - L I N K

Thanks to the 2W internal UHF Rx/Tx radio featured with high efficiency and low power consumption, with S-LINK protocol, SE Lite provides a safe and stable datalink with a super long distance up to 15km.

# SPECIFICATIONS

## SATELLITE PERFORMANCE

|                  |                              |
|------------------|------------------------------|
| Channels         | 1,408   1,808 upgradable     |
| GPS              | L1C/A, L2C, L2P(Y), L5       |
| GLONASS          | L1, L2                       |
| BEIDOU           | B1i, B2i, B3i, B1C, B2a, B2b |
| GALILEO          | E1, E5a, E5b, E6             |
| QZSS             | L1, L2, L5, L6               |
| SBAS             | L1, L5                       |
| L-Band           | B2b-PPP, E6-HAS              |
| Positioning Rate | 1-20Hz                       |

## COMMUNICATION

|              |  |
|--------------|--|
| I/O          | Type-C (OTG+Fast Charge+Ethernet)      |
| Antenna Port | All-in-one port for radio/GPRS antenna |
| UHF Radio    | 2W Tx/Rx                               |
| Protocol     | 410-470MHz                             |
| WiFi         | S-LINK, TrimTalk, HiTarget, SOUTH, CHC |
| Bluetooth    | 802.11b/g/n                            |
| NFC          | Hotspot/Data Link                      |
|              | Bluetooth 2.1 + EDR and 4.0            |
|              | Available                              |

## ACCURACY

|                     |  |
|---------------------|--|
| Code Differential   | H: 0.40m (RMS)<br>V: 0.80m (RMS)             |
| Static              | H: 2.5mm±0.5ppm (RMS)<br>V: 5mm±0.5ppm (RMS) |
| Real-time Kinematic | H: 8mm±1ppm (RMS)<br>V: 15mm±1ppm (RMS)      |
| Network PPK         | H: 8mm±1ppm (RMS)<br>V: 15mm±1ppm (RMS)      |

## IMU MEASUREMENT

|                                     |                |
|-------------------------------------|----------------|
| Tilt Angle<br>(No tilt angle limit) | 2cm within 60° |
|-------------------------------------|----------------|

## DATA STORAGE

|                     |   |
|---------------------|---|
| Type & Storage      | SSD 8GB   |
| Data Transfer       | External USB Pen drive<br>Type-C USB Transfer   |
| Differential Format | Supports FTP/HTTP download<br>RTCM 2.1, RTCM 2.3, RTCM 3.0,<br>RTCM 3.1, RTCM 3.2, NMEA 0183,<br>PJK plane coord., binary code,<br>Trimble GSOF |
| GPS Output Format   | VRS, FKP, MAC<br>Ntrip fully supportable  |

## INTERFACES

|               |  |
|---------------|--|
| Button        | 1                                      |
| LED Indicator | Data Link, Satellite, Bluetooth, Power |

## POWER SUPPLY

|                |   |
|----------------|---|
| Battery        | Internal Li-on Battery<br>3.6V, 10,200mAh |
| Operating Time | Static mode 20h<br>Rover mode 15h         |

## PHYSICAL

|                 |  |
|-----------------|--|
| Dimension       | 82mm(H), 108mm (W)   |
| Weight          | 590g   |
| Operating Temp. | -30°C to 65°C  |
| Storage Temp.   | -40°C to 80°C  |
| Proof           | IP68 water and dust proof<br>2m drop on hard surface<br>40G 10ms sawtooth wave |



## Rugged Controller S Pod

- 8-core 2.0GHz processor
- Android 11
- 5.5" HD screen
- 4GB RAM/64GB ROM
- Customizable shortcut buttons
- 13MP camera
- Alphanumeric keyboard
- IP67



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