RELIABLE IN THE FIELD
SinoGNSS T300 SE GNSS receiver is a compact RTK GNSS receiver tracking all working constellations, which performs well with each constellation independently. With SinoGNSS QUAN™ technology and its strong anti-interference design, the T300 SE provides high-accuracy position availability and reliability no matter where you are.

RUGGED AND EASE OF USE
The rugged housing with IP67 Dustproof & Waterproof design makes the T300 SE perfectly and effectively work even in harsh environments. Small volume with less than 1kg weight makes the T300 SE one of portable GNSS receivers meeting your RTK survey demands. Built-in 8GB internal memory enlarges your data storage in the field.

INTEGRATED GNSS RECEIVER
The T300 SE GNSS receiver combines a GNSS board, a GNSS antenna and Bluetooth® into one compact device, which is one of the most reliable choices for any surveying tasks.

SMART BATTERY DESIGN
With two hot swap batteries, the T300 SE helps to extend working hours and ensure your fluent workflow in the field. The battery LEDs flash when battery shortage. Moreover, you will benefit from its consumer-grade battery design, compatible with Canon LP-E6, which is easy to purchase and replace in your local market.
Technical Specifications

**Signal Tracking**
- 256 channels with simultaneously tracked satellite signals
  - GPS: L1, L2, L2C, L5
  - BeiDou: B1, B2, B3
  - GLONASS: L1, L2
  - Galileo: E1, E5a, E5b
  - QZSS (Reserved)
  - SBAS: WAAS, EGNOS, MSAS, GAGAN

**Performance Specifications**
- Cold start: <50 s
- Warm start: <30 s
- Hot start: <15 s
- Initialization time: <1.5 s
- Signal re-acquisition: >99.9%

**Positioning Specifications**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static and Fast Static</td>
<td>2.5 mm + 0.5 ppm Horizontal</td>
</tr>
<tr>
<td></td>
<td>5 mm + 0.5 ppm Vertical</td>
</tr>
<tr>
<td>Long Observations</td>
<td>3 mm + 0.1 ppm Horizontal</td>
</tr>
<tr>
<td></td>
<td>3.5 mm + 0.4 ppm Vertical</td>
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<tr>
<td>Real Time Kinematic</td>
<td>8 mm + 1 ppm Horizontal</td>
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<tr>
<td></td>
<td>15 mm + 1 ppm Vertical</td>
</tr>
<tr>
<td>E-RTK (&lt;100 km)*1</td>
<td>0.2m + 1 ppm Horizontal</td>
</tr>
<tr>
<td></td>
<td>0.4m + 1 ppm Vertical</td>
</tr>
<tr>
<td>DGPS</td>
<td>&lt;0.4 m RMS</td>
</tr>
<tr>
<td>SBAS</td>
<td>1 m 3D RMS</td>
</tr>
<tr>
<td>Standalone</td>
<td>1.5 m 3D RMS</td>
</tr>
</tbody>
</table>

**Communications**
- 1 x 7 pin lemo port (Combined Serial and USB function)
- Baud rates up to 921600bps for serial
- Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
- 5 LEDs (indicating Power, Satellite Tracking and Differential Data)
- Bluetooth® V 4.0 protocol, compatible with Windows OS and Android OS

**Data Format**
- Correction data I/O:
  - RTCM 2.X, 3.X, CMR (GPS only), CMR+ (GPS only)
- Position data output:
  - ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST, PTNL, PJK, PTNL, AVR, PTNL, GGK
  - ComNav Binary update to 20 Hz

**Physical**
- Size(W x H): Φ 15.8 cm × 7.5 cm
- Weight: 0.95 kg with two batteries

**Environmental**
- Operating temperature: -40 °C to + 65 °C (-40 °F to 149 °F)
- Storage temperature: -40 °C to + 85 °C (-40 °F to 185 °F)
- Humidity: 100% non-condensing
- Waterproof and dustproof: IP67, protected from temporary immersion to depth of 1 m
- Shock: Designed to survive a 2 m drop onto concrete

**Electrical and Memory**
- Input voltage: 5-27 VDC
- Power consumption: 3.1 W
- Li-ion battery capacity: 2 × 2000 mAh, up to 9 hours typically
- Memory: 8 GB

**Software**
- CGSurvey field data collection software
- Survey Master Android-based data collection software
- Carlson SurvCE field data collection software (optional)
- MicroSurvey FieldGenius field data collection software (optional)

**Specifications subject to change without notice.**

1. BeiDou B3 signal is used in RTK calculating engine to enlarge length of baseline, which is only available in Asia Pacific area.
2. 8GB is the default internal memory and optional 16GB, 32GB is available to order. Please clarify when placing the order.

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*T300 SE GNSS Receiver is designed for the specific market, any inquiry please contact your local dealer.

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