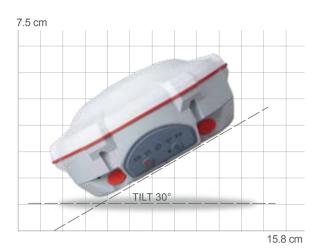
#### T Series GNSS Receiver



Size: 15.8 cm × 7.5 cm Weight: 0.95 kg with two batteries

### **Features**

GPS L1/L2/L5, BeiDou B1/B2/B3, BeiDou Global B1C/B2a, GLONASS L1/L2, Galileo E1/E5a/E5b and SBAS

Advanced QUANTUM™ Technology

WIFI/UHF/4G Module

Tilt Compensation

**Smart Battery Design** 

Low Power Consumption

# T300 Plus GNSS Receiver

### **ULTRA-RELIABLE GNSS**

The Powerful SinoGNSS T300 Plus GNSS receiver is an upgrade of the T300, offers 572 GNSS channels and supports all existing and planned GNSS constellations,providing robust GNSS tracking performance. With the advanced QUANTUM™ technology, it remarkably improves position availability and reliability, so that surveyors are able to expand the reach of their GNSS rovers especially in obscured areas.

# INTEGRATED AND COMPACT DESIGN

SinoGNSS T300 Plus combines a GNSS board, Bluetooth® and adjustable TX&RX UHF, WIFI and 4G modem into one rugged device for demanding surveying tasks. Its built-in 4G modem ensures the T300 Plus perfectly works with all kinds of CORS worldwide. Moreover, T300 Plus built-in tilt sensor supports maximum 30°pole tilt and keeps the compensation accuracy in 3 centimeters, you can check electronic bubble on the controller for fast survey in the field.

## **FLEXIBILITY FOR FIELD USE**

Integrated a full-frequency UHF range from 410 to 470 MHz with its 12.5 KHz frequency interval, the T300 Plus is compatible with other radios and flexible for you to select different frequencies based on specific requirements. The built-in TX/RX UHF also enables your flexibility for base or rover option. For Radio router function, the T300 Plus is able to transmit correction data from the base to other rovers to expand working ranges in the fields.

### SMART BATTERY DESIGN

With two hot swap batteries, the T300 Plus 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.



## T300 Plus GNSS Receiver

T Series GNSS Receiver

Ver.2020.11.30

Signal Tracking	
572 channels for simultaneously tracking satellite signals	
GPS	L1, L2, L2C, L5
BeiDou	B1, B2, B3
BeiDou Global Signal	B1C, B2a
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	<10 s	
Signal re-acquisition	<1.5 s	
Initialization reliability	>99.9%	

Positioning Specifications		
Static and Fast Static	2.5 mm + 0.5 ppm Horizontal 5 mm + 0.5 ppm Vertical	
Long Observations Static	3 mm + 0.1 ppm Horizontal 3.5 mm + 0.4 ppm Vertical	
Real Time Kinematic	8 mm + 1 ppm Horizontal 15 mm + 1 ppm Vertical	
DGPS	<0.4 m RMS	
SBAS	1 m 3D RMS	
Standalone	1.5m 3D RMS	

#### Communications

1 x 7 pin lemo port (Combined Serial and USB function) Baud rates up to 921600bps for serial

UHF modem<sup>1</sup>: Tx/Rx with full frequency range from 410-470 MHz<sup>2</sup>

Transmit power: 0.5-2 W adjustable

Range: 1-5 km<sup>3</sup> WIFI/4G modem<sup>1</sup>

4G Bands: 800/900/1800/2100/2600 MHz

3G Bands: 900/2100 MHz 2G Bands: 900/1800 MHz

Support GSM, Point to Point/Points and NTRIP

Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz

5 LEDs (indicating Power, Satellite Tracking, GPRS Status and Differential Data)

Bluetooth®: V 4.0 protocol, compatible with Windows OS and Android OS

Built-in tilt sensor(MEMS) supports up to 30° tilt compensation

Data Format	
Correction data I/O	RTCM 2.X, 3.X, CMR,CMR+
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	
$Size(L \times W \times H)$	15.8 cm × 7.5 cm
Weight	0.95 kg with two batteries

Environmental	
Operating temperature	-40 °C to + 65 °C
Storage temperature	-40 °C to + 85 °C
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	7-28 VDC
Power consumption	3.1 W <sup>4</sup>
Li-ion battery capacity	2 × 2000 mAh, up to 9 hours typically
Memory	8 GB⁵

### Software

Survey Master Android-based data collection software

Carlson SurvCE field data collection software (optional)

MicroSurvey FieldGenius field data collection software (optional)

- 1.UHF Modem and 4G Modem is default configuration and it can be removed according to your specific needs.
- 2.Integrated UHF ranges from 410 to 470 MHz with 12.5 KHz channel spacing.
- 3.Working distance of internal UHF varies in different environments, the maximum distance is 5 Km in ideal situation.
- 4. Power consumption will increase if transmitting corrections via internal UHF.
- 5.8GB is the default internal memory and optional 16GB, 32GB is available to order. Please clarify when placing the order.

Specifications subject to change without notice.



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