

Size: 15.5 cm × 7.3 cm Weight: 1.2kg with two batteries

Features

GPS L1/L2/L5, BeiDou B1/B2/B3, GLONASS L1/L2/L3, Galileo E1/E5a/E5b/ AltBOC,SBAS, QZSS, IRNSS¹

BeiDou Global Signal B1C, B2a

WIFI/UHF/4G Module

Tilt Compensation

Two 3400 mAh hot swap Batteries

Low Power Consumption

Support PPP and L-Band²

T30 GNSS Receiver

ULTRA-RELIABLE GNSS

SinoGNSS T30 GNSS Receiver is an extremely compact designed receiver, tracking all current GNSS and planned Global GNSS constellations, as well as L-Band capability. With the QUANTUM™ algorithm and second generation SinoGNSS ASIC chip inside, it largely improves positioning reliability and stability, especially in obstacle environment.

FLEXIBILITY FOR FIELD USE

Featuring full-constellation tracking capability, tilt compensation, 4G/WiFi/Bluetooth® connection, and easy survey workflow with Android-based Survey Master Software, the T30 GNSS receiver is one of the most reliable choices for your demanding surveying tasks. Collect more accurate data easier and faster no matter for beginners or professional surveyors. Its built-in tilt sensor supports maximum 30° pole tilt, and you can check electronic bubble on the controller for fast survey in the field. The rugged Al-mg alloy housing with IP67 Dustproof & Waterproof design makes the T30 perfectly and effectively work even in harsh environments.

SMART BATTERY DESIGN

With two 3400mAh hot swap batteries, the T30 helps to extend working hours and ensures you fluent workflow in the field. The battery LEDs flash when battery shortage, then you can replace batteries or directly charge in T30 through an external power.



T Series GNSS Receiver

Ver.2020.11.30

Signal Tracking	
Channels	574
GPS	L1 C/A, L2C, L2P, L5
BeiDou	B1, B2, B3
BeiDou Global Signal	B1C, B2a
GLONASS	L1 C/A, L1P, L2 C/A, L2P, L3
Galileo	E1, E5a, E5b, AltBOC
QZSS, IRNSS ¹	
SBAS	WAAS, EGNOS, MSAS, GAGAN
L-Band ²	

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%
0 1	

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
PPP	10cm Horizontal and 20cm Vertical

Communications

1 Serial port (7 pin Lemo) Baud rates up to 921,600 bps

UHF modem 3 : Tx/Rx with full frequency range from 410-470 MHz 4

Transmit power: 0.5-2 W adjustable

Range: 1-5 km⁵

WIFI/4G modem

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

Tilt sensor

Data Format	
Correction data I/O	RTCM 2.x, 3.x formats, 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(L × W)	15.5 cm × 7.3 cm	
Weight	1.2 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	5-27 VDC
Power consumption	2.4 W ⁶
Li-ion battery capacity	2 ×3400 mAh, up to 12 hours typically
Memory	8 GB

Software

Survey Master Android-based data collection software

Carlson SurvCE field data collection software (optional)

MicroSurvey FieldGenius field data collection software (optional)

- 1. QZSS and IRNSS are reserved for future upgrade.
- 2. PPP service is optional.
- 3.UHF modem is default configuration and it can be removed according to your specific needs.
- 4. Integrated UHF ranges from 410 to 470 MHz with 12.5 KHz channel spacing.
- Working distance of internal UHF varies in different environments, the maximum distance is 5 Km in ideal situation.
- 6. Power consumption will increase if transmitting corrections via internal UHF.

Specifications subject to change without notice.

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