

Technical Specifications

Signal Tracking

- 1198 channels for simultaneously tracking satellite signals
 - GPS: L1C/A, L2C, L2P, L5
 - BeiDou: B1I, B2I, B3I, B1C, B2a, B2b
 - GLONASS: L1, L2, L3
 - Galileo: E1, E5a, E5b, E6, E5 AltBOC
 - QZSS: L1C/A, L1C, L2C, L5
 - Navic: L5
 - SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM, BDSBAS
 - L-Band¹

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

Mode	Accuracy
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	5 mm + 0.5 ppm Horizontal 10 mm + 0.8 ppm Vertical
DGPS	<0.4 m RMS
SBAS	1m 3D RMS
Standalone	1.5 m 3D RMS
PPP	10cm Horizontal and 20cm Vertical

Communications

- 1 Serial port (7 pin Lemo)
 - Tx/Rx with full frequency range from 410-470MHz
 - Transmit power: 0.5W, 1W, 2W adjustable
 - Air Baud Rate: 9600/ 19200/ 11000 adjustable
 - Range: 3-15 km
 - Protocol type: support Transparent/TT450S/South/Mac/SNLonglink, compatible with all the ComNavTech GNSS Receivers
- WiFi: 802.11b/g/n
- 4G modem
 - LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
 - LTE-TDD: B38/B39/B40/B41
 - WCDMA: B1/B2/B4/B5/B6/B8/B19
 - GSM: B2/B3/B5/B8
- Position data output rates: 1Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
- 5 LEDs (indicating Power, Satellite Tracking, GPRS Status and Differential Data)



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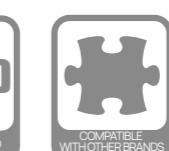
T30 IMU

SinoGNSS

To make your work easier is our original motivation

T30 IMU

GNSS Receiver



Works with:



Survey Master

SinoGNSS T30 IMU GNSS Receiver is an extremely compact designed receiver, tracking all current and future GNSS constellations, as well as L-Band capability. Featuring built-in IMU for high convenience and efficiency, abundant 4G/WIFI/Bluetooth® communications for flexibility, advanced QUANTUM™ technology for positioning reliability and stability, the T30 IMU receiver is the best-in-class solution for any of your survey tasks.

- High-sensitive Full-constellation Tacking Antenna
- Anti-electromagnetic Interference Shield
- Advanced All-in-one GNSS OEM Board
- Up to 60° Tilt Compensation Built-in IMU



FULL-CONSTELLATION TRACKING

1198 channels tracking all working and planned GNSS constellations.



BUILT-IN IMU

Built-in IMU provides a more efficient, convenient and reliable surveying solution for your field work.



ADJUSTABLE TX & RX INTERNAL UHF*

Integrated UHF ranges from 410 to 470 MHz with 12.5 KHz channel spacing.



SEAMLESSLY WORK WITH NETWORKING RTK POSITIONING

Its built-in 4G modem ensures the T30 IMU receiver perfectly works with all kinds of CORS worldwide.



HOT SWAP BATTERY

Two 3400mAh hot swap batteries ensure you fluent workflow in the field.



WIFI CONNECTION

WebUI offers simple configuration, operation, status check of the T30 IMU receiver.



SUPPORT LBAND

Support L-Band and PPP, gives one more choice for diverse surveying tasks.



USB MODE

When connecting the T30 IMU receiver to your PC, you just copy the logged static data from the receiver to your PC.

DATA COLLECTOR



R50 DATA COLLECTOR

- 4+64GB Memory, Android 12 Operation System
- New Exterior Design, Customized for Engineers, More Comfortable Hold
- Large Capacity 7000mah Battery, QC3.0 Quick Charging
- IP67 Waterproof and Dustproof & Survive a 1.5m Drop
- Classic 9-Key and Center Measurement Shortcut Speed Up Working Efficiency
- 5.5-Inch Sunlight Readable Screen, 720*1280 Resolution
- Advanced NFC and 5.0 Dual-Mode Bluetooth



FIELD SOFTWARE

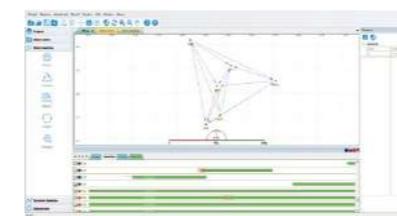


SURVEY MASTER

- Compatible with most of Android devices
- Easier survey workflow via Wizard function
- Support up to 60° IMU tilt compensation
- Support all survey modes, including Static, PPK and RTK
- Support Surface Stake, Mapping Survey and etc. to serve various survey tasks
- Support CAD import and directly use for stake out operations
- Support Convert function from ComNavBinary raw file to RINEX

Optional ▶ [Microsurvey FieldGenius](#)

POST-PROCESSING SOFTWARE



SINOGNSS COMPASS SOLUTION SOFTWARE

- Provide the complete GPS/GLONASS/BeiDou/GALILEO post-processing solution
- Support GNSS observation data in RINEX and ComNav Raw Binary Data formats
- Support different post-processing in static and kinematic modes
- Output analysis reports in various formats (web format, DXF, TXT, KML)
- Supports DJI's P4R data format. Processing results can be imported into photogrammetry and 3D modeling software directly