

# 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-Band<sup>1</sup>

## 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
Network RTK	8 mm + 0.5 ppm Horizontal 15 mm + 0.5 ppm Vertical
Real Time Kinematic	8 mm + 1 ppm Horizontal 15 mm + 1 ppm Vertical
Post Processing Kinematic(PPK)	5 mm + 1 ppm Horizontal 5 mm + 1 ppm Vertical
DGPS	<0.4 m RMS
SBAS	1 m 3D RMS
Standalone	1.5 m 3D RMS
PPP	10cm Horizontal and 20cm Vertical

## Communications

- 1 Serial port (7 pin Lemo)  
Baud rates up to 921,600 bps
- UHF modem<sup>2</sup>: Tx/Rx with full frequency range from 410-470 MHz<sup>3</sup>
  - Transmit power: 0.5-2 W adjustable
  - Range: 1-5 km<sup>4</sup>
- 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: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz

GNSS Surveying System

RU Ver.2024.05.24

**SinoGNSS**<sup>®</sup>

By ComNav Technology Ltd.

To make your work easier is our original motivation

# T30 IMU GNSS SURVEYING SYSTEM



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Survey Master

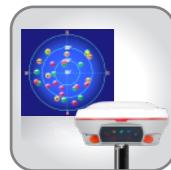
SinoGNSS T30 IMU GNSS Receiver is an extremely compact designed receiver, tracking all current and future GNSS constellations, as well as L-Band capability. Featuring built-in IMU for high convenience and efficiency, abundant 4G/WIFI/Bluetooth® communications for flexibility, advanced QUANTUM™ technology 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



### R60 ANDROID-BASED RUGGED DATA COLLECTOR

- Android 12.0 Operating System
- 5.5" Touch Display with 1920\*1080 Resolution
- Qualcomm 8-Core Processor
- 4+64 GB Memory
- 9000mAh Li-Polymer Battery, QC Super-Fast Charging
- White Backlight Keyboard with Full QWERTY
- Support 4G, Ultra-Distance Bluetooth®, Wi-Fi, NFC
- IP68 Waterproof and Dustproof



## FIELD SOFTWARE



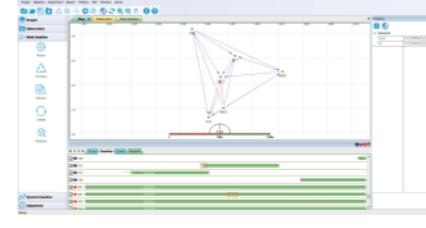
### SURVEY MASTER

- 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