Technical Specifications

T300 Plus





- · 965 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, AltBOC
 - QZSS: L1C/A, L1C, L2C, L5
 - Navic: L5
 - SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM, BDSBAS

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

- · Post Processing (static and fast static)
- Horizontal: 2.5 mm + 0.5 ppm
- Vertical: 5 mm + 0.5 ppm
- Long Observations Static
- Horizontal: 3 mm + 0.1 ppm
- Vertical: 3.5 mm + 0.4 ppm
- · Real Time Kinematic
- Horizontal: 8 mm + 1 ppm - Vertical: 15 mm + 1 ppm
- DGPS:<0.4m RMS
- SBAS: 1 m 3D RMS
- Standalone: 1.5 m 3D RMS

Communications

- 1 x 7 pin lemo port (Combined Serial and USB function) Baud rates up to 921600bps for serial
- UHF modem¹: Tx/Rx with full frequency range from 410-470 MHz² - Transmit power: 0.5-2 W adjustable
- Range: 1-5 km³
- WIFI/4G modem¹
- 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
- 5 LEDs (indicating Power, Satellite Tracking, GPRS Status)
- and Differential Data) Bluetooth[®]: V 4.0 protocol, compatible with Windows OS and Android OS
- Calibration-free IMU integrated for Tilt Survey, up to 60° tilt with 2.5 cm accuracy



- · Correction data I/O:
- RTCM SC104 Version 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(W × 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: 7-28 VDC
- Power consumption: 1.92 W⁴
- Li-ion battery capacity: 2 × 2000 mAh, up to 10 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)
- TopoXpress GIS 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

5.8GB is the default internal memory and optional 16GB, 32GB is available to order. Please clarify when placing the order

respective owners. (January, 2022).

Tel: +86 21 64056796 Fax: +86 21 54309582

> Email: sales@comnavtech.com www.comnavtech.com



T300 Plus GNSS SURVEYING SYSTEM









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.

Specifications subject to change without notice.

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ComNav Technology Ltd. Building 2, No. 618 Chengliu Middle Road, 201801 Shanghai, China







Works with



Survey Maste

Featuring full-constellation tracking capability, built-in IMU, 4G/WiFi connection, 8 GB internal memory and easy survey operation with Android-based Survey Master Software, the T300 Plus GNSS receiver is one of the most reliable choices for your demanding surveying tasks. It's easier and faster to collect accurate data, no mater for beginners or professional surveyors.



DATA COLLECTOR



🖷 R60 ANDROID-BASED RUGGED DATA COLLECTOR

Android 12.0 Operating System

- Qualcomm 8-Core Processor
- 4+64 GB Memory
- White Backlight Keyboard with Full QWERTY
- o Support 4G, Ultra-Distance Bluetooth, Wi-Fi, NFC





1080P

Resolution

FIELD SOFTWARE





USB MODE



to your PC.



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

- o Supports DJI's P4R data format. Processing results can be imported into photogrammetry and 3D modeling software directly



SMART-CHARGING DESIGN

You can charge the battery through the battery charger. Or leave the battery in T300 Plus and charge it through 12V DC power, for example, through a vehicle battery or 12V DC adaptor.

purchase and replace in your local market.









When connecting the T300 Plus to your PC, you can copy the logged static data from the receiver



5.5" Sunlight Readable Display with 1920*1080 Resolution

o 9000mAh Li-Polymer Battery, QC Super-Fast Charging



Full QWERTY







5.5" Display

1

Android 12 LARGE CAPACITY IP67

- o Support different post-processing in static and kinematic modes
- Output analysis reports in various formats (web format, DXF, TXT, KML)