

# Tersus GNSS TC50 Controller

## Overview

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The TC50 controller is a rugged multifunctional data controller with design of 5 inch sunlight readable HD touch screen and an alphanumerical keypad. Equipped with powerful Octa-core processor and Android operating system, it is perfect to adapt with Tersus survey software.

With professional IP68 rating, it is robust and reliable for outdoor challenging environment. The large capacity lithium battery guarantees more than 10 hours of field working of multiple surveying tasks.

## Key Features

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- ✓ 5 inch sunlight readable HD touch screen
- ✓ Octa-core 2.0GHz CPU
- ✓ Android 8.1 operating system
- ✓ 4GB RAM+64GB ROM
- ✓ 5MP front camera and 13MP rear camera
- ✓ IP68 certified grade, water/shock/dust proof
- ✓ 7000mAh battery
- ✓ Wi-Fi, Bluetooth, NFC, 4G
- ✓ USB Type-C



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## Technical Specifications

### System

Operating System:	Android 8.1
CPU:	Octa-core 2.0GHz
Memory:	4GB RAM+64 ROM
External Storage:	Micro SD, up to 128G
Display:	5" sunlight-readable capacitive touch screen
Resolution:	720*1280
Camera:	5MP Front , 13MP Rear
Flash Light:	High-Brightness LED Flash

### GNSS

Signal Tracking:	GPS, BDS, GLONASS
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### Communication

Cellular Mode:	Dual SIM Dual Standby
SIM Slot:	2 Micro SIM Slots
SIM1 & SIM2:	FDD-LTE B1/B3/B5/B7/B8 TDD-LTE B38/B39/B40/B41 TDSCDMA B34/B39 WCDMA B1/B2/B5/B8 GSM B2/B3/B5/B8 CDMA1x/CDMA2000 BC0/BC1
Wi-Fi:	IEEE 802.11 a/b/g/n/ac 2.4G&5G
Bluetooth:	BT4.1 (BLE)
NFC:	Protocol of ISO14443A/B, ISO15693, Readable distance 0~5cm
USB:	USB Type-C, Supports OTG
Sensors:	G-Sensor, Compass, Light-Sensor, Gyro

### Physical

Dimension:	207*84*20mm <sup>(1)</sup>
Weight:	370g (Including Battery) <sup>(1)</sup>
Operating Temperature:	-10 °C ~ +60 °C
Storage Temperature:	-30 °C ~ +70 °C
Humidity:	5% ~ 95%
Dustproof & Waterproof:	IP68
Shock:	1.5m Drop Onto Concrete(6 Sides)
Vibration:	MIL-STD-810G, FIG 514.6C-1

### Electrical

Battery:	7000mAh/3.8V
Working Time(Typical):	14hours <sup>(2)</sup>
Charging Time:	<4 Hours (Fast Charge)

### Operations

Power Button:	Power on/off, reboot, forced restart
Menu Key:	Shows applications that was used recently
Home Key:	Return to home screen
Back Key:	Return to previous screen
APP Key:	Quick start Nuwa application
ENTER Key:	Execute the function of confirming in Nuwa application
aA Key:	Caps lock
FN Key:	Switch between numbers & characters
Blue Positioning Key:	Start measurement in the Survey and Stakeout interface of Nuwa application
Yellow Bulb Key:	Control the screen on and off

Note:

- (1) The actual size/weight may vary depending on the manufacturing process and measurement method.
- (2) The working time of the battery is related to the working environment, working temperature and battery life.

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