

# Tersus GNSS TC80 Controller

## Overview

The TC80 controller is a rugged multi-function data controller with a 5.5" sunlight-readable HD touchscreen design and alphanumeric keypad. It is equipped with a powerful octa-core processor and Android operating system, perfect for adapting to Tersus survey software.

With a professional IP68 rating, it is strong and reliable for difficult outdoor environments. The high-capacity lithium battery provides 14 hours of surveying work in the field.

## Key Features

- ✓ 5.5-inch sunlight-readable HD touchscreen
- ✓ Octa-core 2.0GHz CPU
- ✓ Android 11 operating system
- ✓ 6GB RAM+64GB ROM
- ✓ 13MP rear camera
- ✓ IP68 certified grade, water/dust proof
- ✓ 7700mAh battery
- ✓ Wi-Fi, Bluetooth, NFC, 4G
- ✓ USB Type-C



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## Technical Specifications

### System

|                      |                                                |
|----------------------|------------------------------------------------|
| Operating System:    | Android 11                                     |
| CPU:                 | Octa-core 2.0GHz                               |
| Memory:              | 6GB RAM+64 ROM                                 |
| External Storage:    | Micro SD, up to 256G                           |
| Display:             | 5.5" sunlight-readable capacitive touch screen |
| Resolution:          | 720*1440                                       |
| Brightness:          | 500 cd/m <sup>2</sup>                          |
| Notification Method: | Sound, Vibration, LED prompt                   |
| Audio:               | Speaker, Volume 90db±3db (Test Distance 10cm)  |
| Camera:              | Rear 13 Megapixels AutoFocus                   |
| Flash Light:         | High-Brightness LED Flash                      |

### GNSS

|                  |                            |
|------------------|----------------------------|
| Signal Tracking: | GPS, BDS, GLONASS, GALILEO |
| Channels:        | 80                         |

### Electrical

|                        |                                 |
|------------------------|---------------------------------|
| Battery:               | 7700mAh, Supports fast charging |
| Working Time(Typical): | 14hours <sup>(1)</sup>          |
| Charging Ways:         | USB Type-C Fast Charge          |

### Physical

|                           |                                                |
|---------------------------|------------------------------------------------|
| Dimension:                | 221.3*77.7*19.6mm <sup>(2)</sup>               |
| Weight:                   | 320g (Including Battery) <sup>(2)</sup>        |
| Operating Temperature:    | -20 °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                     |
| Electrostatic Protection: | ±15kV Air Discharge,<br>±8kV Contact Discharge |

### Communication

|                |                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------|
| Cellular Band: | FDD-LTE B1/B3/B5/B7/B8<br>TDD-LTE B38/B39/B40/B41<br>WCDMA B1/B2/B5/B8<br>GSM B2/B3/B5/B8<br>CDMA/EVDO BC0/BC1 |
| Wi-Fi:         | IEEE 802.11 a/b/g/n/ac 2.4G&5G Double Frequency                                                                |
| Bluetooth:     | BT5.0 (BLE)                                                                                                    |
| NFC:           | Protocol of ISO14443A/B, ISO15693,<br>Readable distance 0~5cm                                                  |
| USB:           | USB Type-C, Supports OTG                                                                                       |
| Sensors:       | Gravity Acceleration Sensor,<br>Geomagnetic Sensor, Light and Distance Sensor                                  |

Note:

(1) The working time of the battery is related to the working environment, working temperature and battery life.

(2) The actual size/weight may vary depending on the manufacturing process and measurement method.

**UNITED  
SURVEYING  
SUPPLIES**

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