

Nilamtec T3F

Multi-Band High Precision GNSS Tablet

WHAT IS NEW IN T3F?

IN ADDITION TO ENHANCEMENT OF VERTICAL ACCURACY, T3F SUPPORTS HOT SWAP BATTERY, MULTIPLE I/O PORTS, OPTIONAL UHF RFID. IT JUST MAKE YOU WORRY FREE IN YOUR FIELD AND WORK EASY IN YOUR OFFICE.

The Nilamtec T3F is a rugged designed for Construction, Surveying, GIS, Environmental Management, Public and Utility Field applications. T3F can be used as a handheld with centimeter level GNSS positioning capability, and connected to professional external GNSS antenna to provide further high precision GNSS positioning function.

Basic Functions

T3F supports Android 9 AOSP OS.

GNSS Positioning

With built-in high precision multi-band GNSS receiver, T3F supports 184-channel concurrent multi-band reception of GPS, GLONASS, Galileo and BeiDou, and multi-band RTK with fast convergence times and reliable performance. T3F

can deliver centimeter level accuracy in seconds. With high update rate, T3F is capable to support highly dynamic applications in the field.

T3F also provide interface for professional GNSS antenna connection for high precision GNSS applications.

Reliability and Efficiency in The Field and Office

You can take T3F as a tablet to the field without worry about dust, water, damage caused by dropping the tablet, high or low temperature, and long operation hour.

- T3F provides IP68 rated protection from dust and water ingress
- The operating temperature of T3F is from -20°C to +60°C. T3F supports you in both cool winter and hot summer.
- Hot swappable 7000 mAh battery allow you keep working 7x24 non-stop.
- Integrated 13M pixel rear camera and 8M pixel front camera allow you take sharp photos for your information sharing.
- 8" LCD screen provides bright and easy to read display
- HDMI and USB ports are available which make your office

work easy.

- UHF RFID is an optional feature for fast data capture.

Not Just a Rugged Tablet. T3F makes your work easy

It is a smart investment in T3F. T3F helps you to improve your field operation efficiency in GNSS positioning works, and integrate your surveying, data capture and e-work flow in a single device.



Nilamtec T3F

Multi-Band High Precision GNSS Tablet

STANDARD FEATURES

SYSTEM

- Integrated LTE cellular data, voice, and text capability
- 13MP rear camera, 8MP front camera
- High sensitivity GNSS receiver and antenna
- Bluetooth 4.2
- WIFI IEEE802.11 a/b/g/n/ac, 2.4GHz and 5GHz
- Capacitive multi-touch 8" LCD 1920 x 1200 Gorilla Glass Screen, 500cd/m² Brightness
- Qualcomm SDM632 Octa core 1.8GHz Processor
- 4GB RAM, 64GB Flash Memory
- Support Micro SD card
- Dual SIM, Dual Standby

OPERATING SYSTEM

- Android 9 AOSP OS

COMMUNICATIONS NETWORK

- GSM:850/900/1800/1900,
- EVDO: BC0,
- WCDMA: B1/B2/B5/B8,
- TDD-LTE: Band38/Band39/Band40/Band 41,
- FDD-LTE: Band1/Band3/band4/band5/B and7/band8/band17/band20/ band28
- WIFI: IEEE 802.11 a/b/g/n/ac, 2.4GHz and 5GHz
- Bluetooth: Bluetooth 4.2
- USB: UBS 3.0 Type Cx1, Type A x2
- NFC
- Extended Pogo Pin Interface: Back (12-pin): USB2.0/UART/ GPIO/DCIN/CAN Bottom (10-pin): USB2.0/DCIN/GPIO

POWER MANAGEMENT

- Battery: 7000 mAh hot swappable board temperature range, Li-ion battery
- Built-in battery: 400mAh
- Fast Charging: Support Qualcomm QC 3.0 (need to work with QC 3.0 charger)

SENSORS

G Sensor, Temperature Sensors, Gyroscope, Light Sensor, E-Compass

TECHNICAL SPECIFICATIONS

PHYSICAL

- Size: 209x130x13.9mm (excluding external GNSS antenna)
- Weight: approx. 700g (including battery and standard external GNSS antenna)
- User Interface: Hard Keys Power, Volume up/down, F1, F2, F3, F4

ENVIRONMENTAL

Temperature:

- Operating: -20 °C to +60 °C
- Storage: -30 °C to +70°C

Humidity:

- 95% non-condensing

Dust and Water Proof:

- IP68

Drop Resistance:

- 1.2 m free drop to concrete (excluding external antenna)

INPUT/OUTPUT

Extended Memory:

Micro SD card (T card)

Display:

Damage-Resistant Gorilla Glass

8" LCD Capacitive Multi-touch screen

1920 x 1200 Pixel resolution

500 cd/m² brightness

Audio:

Built-in speaker and microphone

Support USB-C type corded microphone

Camera:

Rear Camera: 13 MP with flash

light

Front Camera: 8 MP

Sensors:

G Sensor, Temperature Sensors,

Gyroscope, Light Sensor, E-

Compass, Finger Print

GNSS SYSTEM

Receiver type:

184-channel

GPS L1C/A L2C, GLO L1OF L2OF,

GAL E1B/C E5b, BDS B1I B2I,

QZSS L1C/A L2C

Nav. update rate:

RTK up to 20 Hz¹

Position accuracy²:

RTK

H: 0.01 m + 1 ppm CEP

V: 0.01 m + 1 ppm R50

Convergence time²:

RTK < 10 sec

Protocols:

NMEA, UBX binary, RTCM 3.3

GNSS Antenna Interface:

SMA, 50 Ohms

1: The highest navigation rate can be limited by the number of supported constellations

2: Depends on atmospheric conditions, baseline length, GNSS antenna, multipath conditions, satellite visibility, geometry and antenna phase center offset errors.



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