

# Nilamtec T1F

## Multi-Band High Precision GNSS Tablet

### IS IT A RUGGED TABLET? T1 IS MORE THAN A RUGGED TABLET, IT IS A TOOL FOR PROFESSIONAL USER TO IMPROVE THEIR PRODUCTIVITY

The Nilamtec T1F is a rugged designed for Construction, Surveying, GIS, Environmental Management, Public and Utility Field applications. T1F 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

T1F is a full functioned Android tablet. T1F can run Android Apps just as same as the Android Tablet in the market.

### GNSS Positioning

With built-in high precision multi-band GNSS receiver, T1F supports 184-channel concurrent multi-band reception of GPS, GLONASS, Galileo and BeiDou, and multi-band RTK with fast convergence times and reliable performance. T1F can deliver centimeter level accuracy in seconds. With high

update rate, T1F is capable to support highly dynamic applications in the field.

T1F also provides interface for professional GNSS antenna connection for high precision GNSS applications.

### Reliability and Efficiency In The Field

You can take T1F 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.

- T1F provides IP67 rated protection from dust and water ingress
- The operating temperature of T1F is from -20°C to +60°C. T1F supports you in both cool winter and hot summer.
- User replaceable 8000 mAh battery allow you keep working all day long in remote sites.
- Integrated 16M pixel rear camera allows you take sharp photos for your information sharing.
- 8" AMOLED screen provides bright and easy to read display

### Not Just a Rugged Tablet. It Is a Tool to Improve Your Productivity

It is a smart investment in T1F. T1F helps you to improve your field operation efficiency in GNSS positioning works, and integrate your surveying and e-work flow in a single device.



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# Nilamtec T1F

## Multi-Band High Precision GNSS Tablet

### STANDARD FEATURES

#### SYSTEM

- Integrated LTE cellular data, voice, and text capability
- 16MP rear camera, 5MP front camera
- High sensitivity GNSS receiver and antenna
- Bluetooth 4.1
- WIFI IEEE802.11 a/b/g/n/ac, 2.4GHz and 5GHz
- Capacitive multi-touch 8" AMOLED 1280 x 800 Gorilla Glass Screen, 450cd/m<sup>2</sup> Brightness
- 8000 mAh long lasting, user replaceable, wide temperature range battery
- Qualcomm MSM8940 Octa core 1.4GHz Processor
- 3GB RAM, 32GB Flash Memory
- Support Micro SD card
- Dual SIM, Dual Standby

#### OPERATING SYSTEM

- Android 8.1

#### COMMUNICATIONS NETWORK

- GSM: 850/900/1800/1900,
- EVDO: BC0,
- WCDMA: B1/B2/B5/B8,
- TD-SCDMA: B34/B39
- 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 4.1
- USB: USB 2.0, Type C
- NFC

- Extended Pogo Pin Interface: USB, UART, I<sup>2</sup>C, GPIO, Power Charging

#### POWER MANAGEMENT

- Battery: 8000 mAh board temperature range, user replaceable Li-ion battery
- 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: 243 x 153 x 33 mm (without external GNSS antenna)
- Weight: approx. 660g
- Processor: Qualcomm MSM8940 Octa core 1.4GHz
- Memory: 3GB RAM, 32GB Flash
- User Interface: Hard Keys Power, Volume up/down, F1, F2
- Battery: 8000 mAh, user replaceable, wide temperature range Li-ion battery

#### ENVIRONMENTAL

##### Temperature:

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

##### Humidity:

- 95% non-condensing

##### Dust and Water Proof:

- IP67

##### Drop Resistance:

- 1.2 m free drop to concrete

#### INPUT/OUTPUT

Extended Memory: Micro SD card (T card)

##### Display:

Damage-Resistant Gorilla Glass  
8" AMOLED Capacitive Multi-touch screen  
1280 x 800 Pixel resolution  
450 cd/m<sup>2</sup> brightness

##### Audio:

Built-in speaker and microphone  
Support USB-C type corded microphone

##### Camera:

Rear Camera: 16 MP with flash light

Front Camera: 5 MP

##### Sensors:

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

#### 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 Hz<sup>1</sup>

##### Position accuracy<sup>2</sup>:

RTK 0.01 m + 1 ppm CEP

##### Convergence time<sup>2</sup>:

RTK < 10 sec

##### Protocols:

NMEA, UBX binary, RTCM 3.3

##### GNSS Antenna Interface:

SMA, 50 Ohms

1: The highest navigation rate can limit the number of supported constellations

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



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