Datasheet

Nilamtec T5 Series

WHAT IS NEW WITH T5 TABLET?

T5 IS A NEW GENERATION 5G RUGGED TABLET WITH SIGNIFICANT UPGRADE IN COMPUTER POWER, COMMUNICATION CAPABILITY AND USEABILITY. IT IS YOUR RELIABLE HANDHELD IN TOUCH ENVIRONMENT

The Nilamtec T5 is 8" rugged tablet designed for Construction, BIM, GIS, Environmental Management, Law Enforcement, Public and Utility Field applications. To fulfill the special requirements of professional applications. Powered by Qualcomm QCM6490, T5 provides powerful computing power to process complicated engineering software for purpose-oriented applications.

Computing Power and 5G Communication

Powered by Qualcomm QCM6490, Nilamtec T5 computing power is 4 times faster than the older generation product. It also supports 5G mobile network to meet the requirements of large volume data exchange.

T5 is an ideal device to run engineering software in the field.

Reliability and Efficiency in The Field and Office

You can take T5 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.
- T5 provides IP68 rated protection from dust and water ingress
- The operating temperature of T5 is from -20°C to +60°C. T5 supports you in both cool winter and hot summer.
- User replaceable 7000mAh battery allows the device keep running in the field for long time.
- With enhanced GNSS capability, T5 supports meter level standalone GNSS, and sub-meter level DGNSS[1] positioning, which allows you locate your position accurately, and reducing mistakes caused by positioning error.

- Integrated high-resolution cameras allow you take sharp photos for your information sharing.
- 8" 1280x800 700 Nits screen provides bright and easy to read display
- 4 user defined hard keys are available for quick access to frequent use and important applications, such as SOS and PTT.
- USB-C and USB-A ports are

available for conventional keyboard, mouse and other office equipment connection. T5 can be used as PC liked device in the office.

Flexible Hardware Configurations for Professional Applications

Nilamtec T5 provides high flexibility of hardware configurations for professional applications. You may choose an embedded 1D/2D barcode scanner. You can also use pogo pin port to connect the device to the equipment which supports serial connection.

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

It is a smart investment in T5. T5 helps you to improve your field operation efficiency in BIM management, GIS, stock tracking, E-work flow, GIS data collection and more.

Your Local Distributor:

Nilamtec T5 Series

STANDARD FEATURES

SYSTEM

- Integrated 5G/LTE cellar data, voice, and text capability
- 13MP rear camera, 8MP front camera
- High sensitivity GNSS receiver and antenna
- Bluetooth 5.2
- WIFI IEEE802.11 /b/g/n/ac/ax, 2.4GHz and 5GHz, 2x2 MIMO
- Capacitive multi-touch 8" LCD 1920 x 1200 Gorilla Glass Screen, 700cd/m² Brightness
- Qualcomm QCM6490 Octa core 1xA78 2.7GHz, 3xA78 2.4GHz, 4x A55 1.9GHz
- 8GB RAM, 128GB/256GB UFS Flash Memory
- SIM and Micro SD card slots
- Standalone GNSS accuracy <1.5 m in open sky
- Sub-meter level accuracy by DGNSS[1]
- 1D/2D barcode scanner (optional)

OPERATING SYSTEM

- Android 13 AOSP OS

COMMUNICATIONS NETWORK

- GSM: B2/B3/B5/B8,
- WCDMA: B1/B3/B5/B8,
- TD-WCDMA: B34/B39
- TDD-LTE: B38/B39/B40/B41,
- FDD-LTE: B1/B2/B3/B5/B7/B8/B20/B26/B28
- 5G-NR: N1/N3/N7/N8/N28/N38/N41/N77/N78/N79
- WIFI: IEEE 802.11 a/b/g/n/ac/ax, 2.4GHz and 5GHz, 2x2 MIMO
- Bluetooth: Bluetooth 5.2
- USB: Type C x1 support display port, USB 2.0 Type A x2
- NFC

- Pogo Pin:
  - 12 Pin Back UART/USB2.0/CAN/DCIN/GPIO
  - 10 Pin Bottom USB2.0/DCIN/GPIO

POWER MANAGEMENT

- Battery: 7000 mAh user replaceable board temperature range, Li-ion battery
- Fast Charging: Support Qualcomm QC 4+ (need to work with QC 4+ charger)

GNSS

- GPS, GLONASS, BEIDU, and GALILEO (simultaneous operation of any three of the constellations)
- Sub-meter level DGNSS[1]
- Standalone GNSS accuracy <1.5m in open sky

SENSORS

G Sensor, Temperature Sensors, Gyroscope, Light Sensor, E-Compass, Fingerprint (optional)

TECHNICAL SPECIFICATIONS

PHYSICAL

- Size: 209x130x13.9mm
- Weight: approx. 550 g (including battery, the weight various with models)
- User Interface:
  - Hard Key: Power, Volume up/down, F1/2/3/4

ENVIRONMENTAL

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

Humidity:
- 95% non-condensing

Dust and Water Proof:
- IP68 (1.5 meter depth water for 30 minutes)

Drop Resistance:
- 1.2 m free drop (MIL-STD-810G)

INPUT/OUTPUT

Extended Memory:
  Micro SD card (T card)

Display:
  Damage-Resistant Gorilla Glass 8" LCD Capacitive Multi-touch screen
  1280 x 800 Pixel resolution
  700 cd/m² brightness

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

Camera:
  Rear Camera: 20 MP with flash light
  Front Camera: 8 MP

OPTIONAL FEATURES

1D/2D Scanner
  1D/2D barcode scanning

Notes:
1: Third party DGNSS software and services are required.

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