

# Trimble Nomad 5

## HANDHELD

### Everything you have ever needed in a rugged handheld

The Trimble® Nomad™ 5 handheld powered by Android™ 8.1 is a 5-inch, fully-rugged mobile computer. With the ability to integrate almost any additional customized function through the Trimble EMPOWER module interface, the Nomad 5 delivers **a unique combination of strength, smarts, and flexibility**, and is the perfect companion for professional field workers who cannot afford to compromise their productivity.

### Customization comes standard

Introducing the Trimble EMPOWER Platform: a modular expansion system that gives you the power to customize your mobile computing solution to your workflow, and the confidence of knowing that your investment is scalable for future needs.

Trimble EMPOWER modules let you easily add specialized features to your devices such as high-accuracy GNSS or asset tracking using RFID or barcodes. You can even bring your own fully customized solution to life through the EMPOWER Module Developer Program. The Developer Program is accessible to both hardware and software developers, empowering anyone to create solutions that transform the way the world works.

### Performance for all your workflows

The Nomad 5 packs a lot in for a handheld device. From the 5-inch sunlight readable toughened glass display, to high-speed 4G LTE cellular connectivity, the Nomad 5 includes all the features, and capabilities you expect in a professional rugged handheld. Nomad 5 is completely rugged, MILSTD-810G and IP65/68 tested, and purpose built to perform in almost every environment - hot or cold, wet or dry.

### Powered by Android 8.1

The Nomad 5 is powered by Android 8.1 and comes pre-loaded with Google's suite of GMS apps and services. Featuring a bold, colorful, and responsive UI design for consistent, intuitive experiences, Android 8.1 represents the peak of mobile OS usability and user friendliness. With Android it is easy to build a custom application that leverages all of the powerful capabilities and functions of the Nomad 5. Alternatively just use any of the millions of apps available through Google Play.

With a host of new security features, Android has become more than just a mobile OS - it has graduated to a business-ready ecosystem that can be deployed across organisations both large and small.

### Maintenance and service plans that you can depend upon

Investing in equipment that is destined for years of outdoor operation demands quality that you can trust, comprehensive technical support when it is needed, and professional service and maintenance coverage should something go wrong. **Trimble stands by the quality of its products with a full 2-year factory warranty, paid options to extend that cover to up to a total of five years, access to professionally trained service technicians and comprehensive technical support, anywhere in the world.**



## Key Features

- ▶ **Trimble EMPOWER Platform:**  
Delivering a flexible, versatile, field solution that is scalable for future needs.
- ▶ **5-inch high-brightness touchscreen:**  
The perfect handheld display, indoors and out.
- ▶ **4G LTE mobile data, 802.11 a/b/g/n/ac and Bluetooth® 4.2:**  
Reliable high-speed wireless connectivity on the go, when and where you need it.
- ▶ **Powered by Android 8.1:**  
Industry-leading usability and access to an ecosystem of over one million mobile apps through the Google Play Store.
- ▶ **Trust Trimble:**  
Professional maintenance and service plans that you can depend upon.



# Trimble Nomad 5 HANDHELD

## PLATFORM

- Chipset: Qualcomm® Snapdragon 820 (APQ8096)
- CPU: Kryo CPU, quad core, 64-bit ARM V8, 2.2GHz

## OS & SOFTWARE

- Operating System: Android™ 8.1 (Oreo)
- Pre-loaded software package includes: Trimble® EMPOWER™ Hub, Trimble GNSS Status, Google GMS core apps and services including: Google Chrome, Gmail, Google (search), Google Maps, Google Drive, Google Play
- Access to over one million apps from the Google Play store

## MEMORY/STORAGE

- 4 GB RAM
- 32 GB UFS storage
- Storage expansion: via microSD card slot (SDHC up to 32 GB) SanDisk® or Kingston® recommended

## DISPLAY & TOUCH PANEL

- Display: Transflective with LED backlight, capacitive multitouch
- Size: 12.7 cm (5 inches) (16:9 aspect ratio)
- Resolution: 1280 x 720 pixels
- LED brightness: Up to 440 Cd/m²
- Daylight readable

## CAMERAS

- Rear: 16 MP AF with LED Flash
- Front: 8 MP

## TRIMBLE EMPOWER PLATFORM READY

- Trimble EMPOWER module slots: 1
- Compatible with all "Trimble EMPOWER Enabled" modules

## MOBILE DATA (OPTIONAL)

- SIM Type: Micro
- HSPA+/UMTS/TD-SCDMA
- LTE

## WIRELESS

- 802.11 a/b/g/n/ac (2.4GHz/5GHz ISM radio band)
- Bluetooth 4.2 (including BTLE) wireless technology

## GNSS

- Chipset: Ublox NEO-M8T
- Horizontal accuracy: 2-4 m (RMS)
- Constellations: L1 GPS, GLONASS, BeiDou
- Corrections: SBAS, RTCM V2.3
- Supports raw-data output (post-processing)

## SOUND

- Integrated Speaker & Microphone

## SENSORS

- 3-axis accelerometer
- Magnetic sensor
- Gyroscope
- Ambient light sensor

## I/O

- Keypad:
  - 3x programmable function keys
  - 3x Android keys
- External MMCX GNSS antenna jack
- Replaceable I/O Boot with:
  - 3.5 mm headset jack (CTIA standard)
  - DC power input (19 V @ 3 A)
  - 1x USB 3.0 host/client (Type-C)
  - 3 pin charging station connector

## BATTERY AND POWER

- Li-Ion user replaceable battery pack
- Capacity: 10.8 V, 3200 mAh (35 Wh)
- Charging time: <4.5 hours (typical)
- Standby time: Up to 6 days
- Continuous light use: Up to 10.5 hours²
- Continuous heavy use: Up to 5.5 hours²

## ENVIRONMENTAL SPECIFICATIONS

### IEC ratings:

- Water/Dust ingress: IP65 and IP68 (IEC 60529)

### MIL-STD-810G test ratings:

- Operating temperature: -30 °C to +60 °C (-22 °F to +140 °F)
- Storage temperature: -40 °C to +70 °C (-40 °F to +158 °F)
- Drop: Multiple 1.8 m (6') drops, MIL-STD-810G Method 516.7 Procedure IV
- Heavy vibration (MIL-STD-810G Method 514.7 Procedure I Category 24)
- Humidity: 95 % RH Non-condensing (MIL-STD-810G Method 507.6)
- High altitude operation: 9,144 m (30,000 ft) (MIL-STD-810G Method 500.6)
- High altitude transport: 12,192 m (40,000 ft) (MIL-STD-810G Method 500.6)

## PHYSICAL DIMENSIONS

- Size (L x W x H):
  - 200 mm x 95.4 mm x 35 mm (7.87 in x 3.76 in x 1.38 in) without battery
  - 200 mm x 95.4 mm x 44 mm (7.87 in x 3.76 in x 1.73 in) with battery
- Weight: 700 g (1.54 lb) (with battery)

## COMPLIANCE CERTIFICATIONS

- FCC part 15 (Class B device), CE Mark, RoHS

## IN THE BOX

- Trimble Nomad 5 handheld computer with Android 8.1
- Battery pack
- AC Power adapter/charger
- Stylus and tether
- Accessory screwdriver
- USB Type-C data cable
- Documentation
- Glass screen protector
- Hand-strap kit

## OPTIONAL ACCESSORIES

- Charging Dock
- Shoulder Sling
- External GNSS Antenna
- Vehicle Hard Mount Bracket
- Suction Mount Bracket
- I/O Boot Module
- Fabric Carry Pouch
- DC Vehicle Charger (12/24 V)

## DEVELOPER RESOURCES

- EMPOWER Platform Developer Program: Including access to a hardware MDK for customized EMPOWER Module developers and specific SDKs for software developers seeking to create custom apps leveraging Trimble EMPOWER Modules. For more information go to <https://empower.trimble.com/developer/>

- 1 GNSS accuracy may be affected by environmental conditions including multipath, obstructions, satellite geometry and atmospheric conditions. Specified accuracy assumes open-sky conditions and SBAS corrections are used.
- 2 Usage is dependent on factors such as screen on time, brightness, module use etc. Times are indicative only.



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