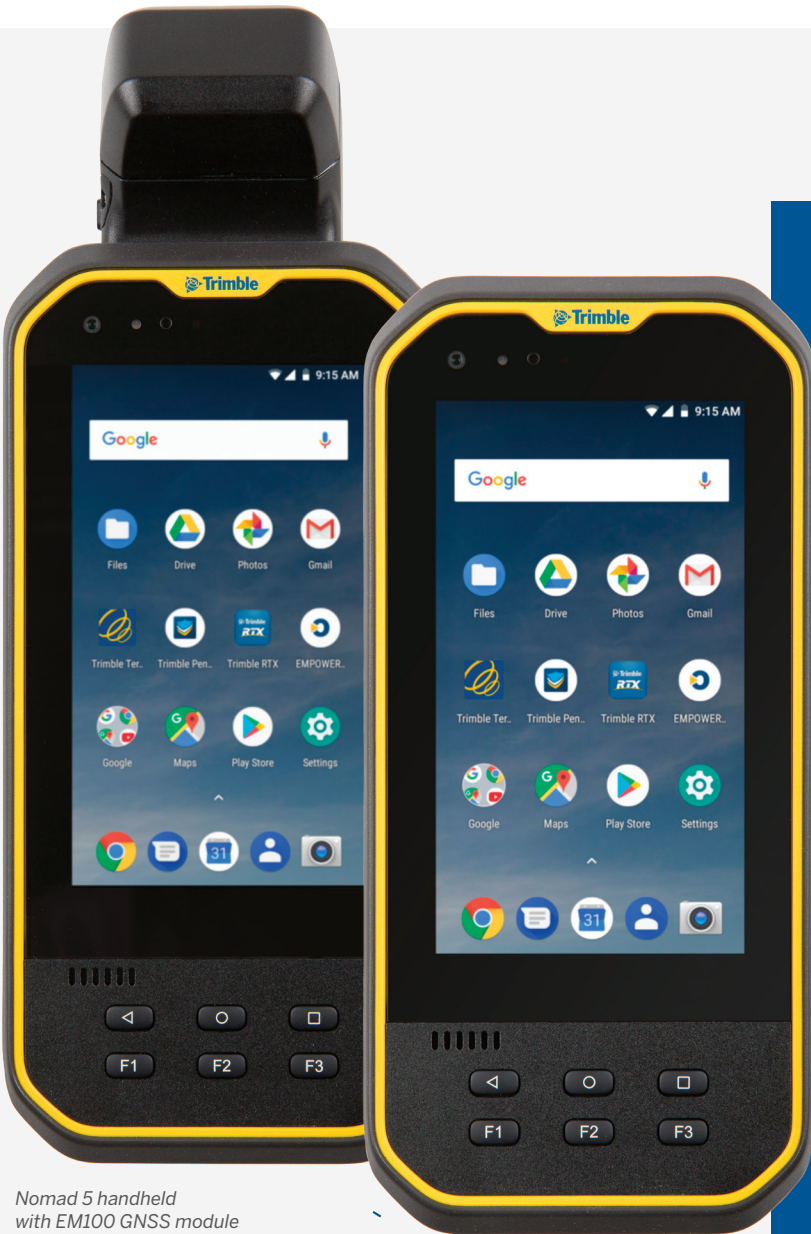


# Trimble Nomad 5

## HANDHELD COMPUTER



Nomad 5 handheld with EM100 GNSS module

Nomad 5 handheld

### KEY FEATURES

- ▶ Android™ 8.1 operating system
- ▶ 5-inch sunlight readable multi-touch capacitive screen for finger and stylus
- ▶ Google Mobile Services certified with full access to Google Play Store apps
- ▶ Runs Trimble, third-party, or custom-developed applications
- ▶ User-interchangeable Trimble EMPOWER modules, including sub-meter GNSS receiver
- ▶ High speed 4G LTE cellular data connectivity
- ▶ Ultra-rugged design with MIL-STD-810G certification
- ▶ User-replaceable, all day battery
- ▶ Powerful Qualcomm® processor with 4 GB RAM and 32 GB internal storage
- ▶ Ergonomic form factor
- ▶ Programmable, tactile hard keys
- ▶ Front- and rear-facing cameras

Learn more:  
[geospatial.trimble.com/nomad-5](https://geospatial.trimble.com/nomad-5)

# Trimble Nomad 5 HANDHELD COMPUTER

## SYSTEM

Processor ..... Qualcomm® Snapdragon™ 820 (APQ8096)  
 CPU ..... Kyro CPU, quad core, 64-bit ARM V8, 2.2 GHz  
 RAM ..... 4 GB  
 User storage ..... UFS 32 GB  
 Storage expansion ..... via microSD card up to 32 GB

## OPERATING SYSTEM

OS ..... Android 8.1 (Oreo)  
 Pre-loaded software package ..... Trimble® EMPOWER Hub, Trimble GNSS Status, Google GMS core apps  
 Language support ..... Including at least: US English, Simplified Chinese, Japanese, Korean, Spanish, Portugese (Brazil), German, French, Italian

## COMMUNICATIONS<sup>1</sup>

WWAN ..... Worldwide LTE in regions where it is available, and compatible with 3G networks  
 AT&T and Verizon certified  
 MicroSIM card  
 HSPA+ / UMTS / TD-SCDMA  
 Wi-Fi ..... 802.11 a/b/g/n/ac (2.4 GHz/5 GHz ISM radio band)  
 Bluetooth<sup>2</sup> ..... Bluetooth 2.1 + EDR  
 Bluetooth v 4.2 (including BTLE), 10 meter effective range

## INPUT/OUTPUT

EMPOWER module support ..... 1x module bay  
 I/O ..... USB 3.0 host/client (Type-C)  
 3 pin charging station connector  
 External antenna connector  
 DC power ..... Input: 19 V, 3 A  
 Audio ..... Integrated microphone and speaker  
 Audio jack 3.5 mm  
 Sensors ..... 3-axis accelerometer, magnetic sensor, gyroscope, ambient light sensor

## CAMERA

Front camera ..... 8 MP  
 Rear camera ..... 16 MP with auto-focus and LED flash

## INTEGRATED GNSS

Chipset ..... Ublox NEO-M8T  
 Internal antenna ..... Yes  
 External antenna ..... MMCX connector, 3.3 V  
 Constellations ..... L1 GPS / GLONASS / BeiDou  
 Correction sources ..... SBAS<sup>3</sup>, RTCM V2.3  
 Raw data output (postprocessing) ..... Yes  
 Horizontal accuracy<sup>3</sup> Real-time (RMS) ..... 2–4 m

## POWER & BATTERY

Type ..... Rechargeable, removable Li-Ion  
 Capacity ..... 10.8 V / 3200 mAh (35 Whr)  
 Charging time ..... < 4.5 hours  
 Battery life<sup>4</sup> ..... Up to 10.5 hours

## PHYSICAL

Size (H x W x D) ..... 200 mm x 95.4 mm x 44 mm (7.87 in x 3.76 in x 1.73 in)  
 Weight ..... 700 g (1.54 lb)  
 User interface keys ..... Power, volume up, volume down, 3x Android keys, 3x programmable keys

## DISPLAY

Size ..... 5-inch capacitive multi-touch  
 Resolution ..... 1280 x 720 Portrait (16:9 aspect ratio)  
 Display ..... Transflective with LED backlight  
 Brightness ..... 440 Cd/m<sup>2</sup>

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature ..... -30 to +60 °C (-22 to +140 °F)  
 Storage temperature ..... -40 to +70 °C (-40 to +158 °F)  
 Humidity ..... 95% RH Non-condensing (MIL-STD-810G Method 507.6)  
 Water & dust ingress ..... IP65 and IP68 (IEC 60529)  
 Drop ..... 1.8 m (6 ft), MIL-STD-810G Method 516.7 Procedure IV  
 Vibration ..... MIL-STD-810G Method 514.7 Procedure I Category 24  
 Operating altitude ..... 9,144 m (30,000 ft), MIL-STD-810G Method 500.6  
 Storage altitude ..... 12,192 m (40,000 ft), MIL-STD-810G Method 500.6

## STANDARD ACCESSORIES

- USB Type-C data cable
- Stylus with tether
- AC power adapter/charger
- Hand strap
- Screen protector

## OPTIONAL ACCESSORIES

- Soft carry case
- Vehicle mount - Hard
- Vehicle mount - Soft
- 12 V Vehicle adapter
- Charging dock
- Pole bracket
- USB I/O boot (replacement)
- External Antenna, GPS + GLO
- EM110 1D/2D barcode imager
- EM111 1D/2D barcode imager & UHF 902-928 MHz RFID - NA
- EM111 1D/2D barcode imager & UHF 865.6-867.6 MHz RFID - EU
- EM100 GNSS module

## TRIMBLE EMPOWER EM100 GNSS MODULE (OPTIONAL)

Constellations ..... GPS L1 C/A, GLONASS L1 C/A, SBAS L1 C/A (WAAS, EGNOS, MSAS, GAGAN, SDCM), Galileo E1, BeiDou B1, QZSS L1 C/A & L1-SAIF  
 SBAS Accuracy ..... 1 m  
 VRS / DGNSS ..... 75 cm  
 Trimble ViewPoint RTX™ service ..... 50 cm

- 1 Bluetooth and wireless LAN type approvals are country specific. Trimble Nomad 5 handheld has Bluetooth and wireless LAN approval in the USA and EU. For other countries please consult your local Distributor.
- 2 SBAS (Satellite Based Augmentation System). Includes WAAS (Wide Area Augmentation System) available in North America only, EGNOS (European Geostationary Navigation Overlay System) available in Europe only, and MSAS available in Japan only.
- 3 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.
- 4 These are preliminary estimates. Heavy use of display backlight, and other system features (GNSS, modules, etc.) will lower run-time.

Specifications subject to change without notice.



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