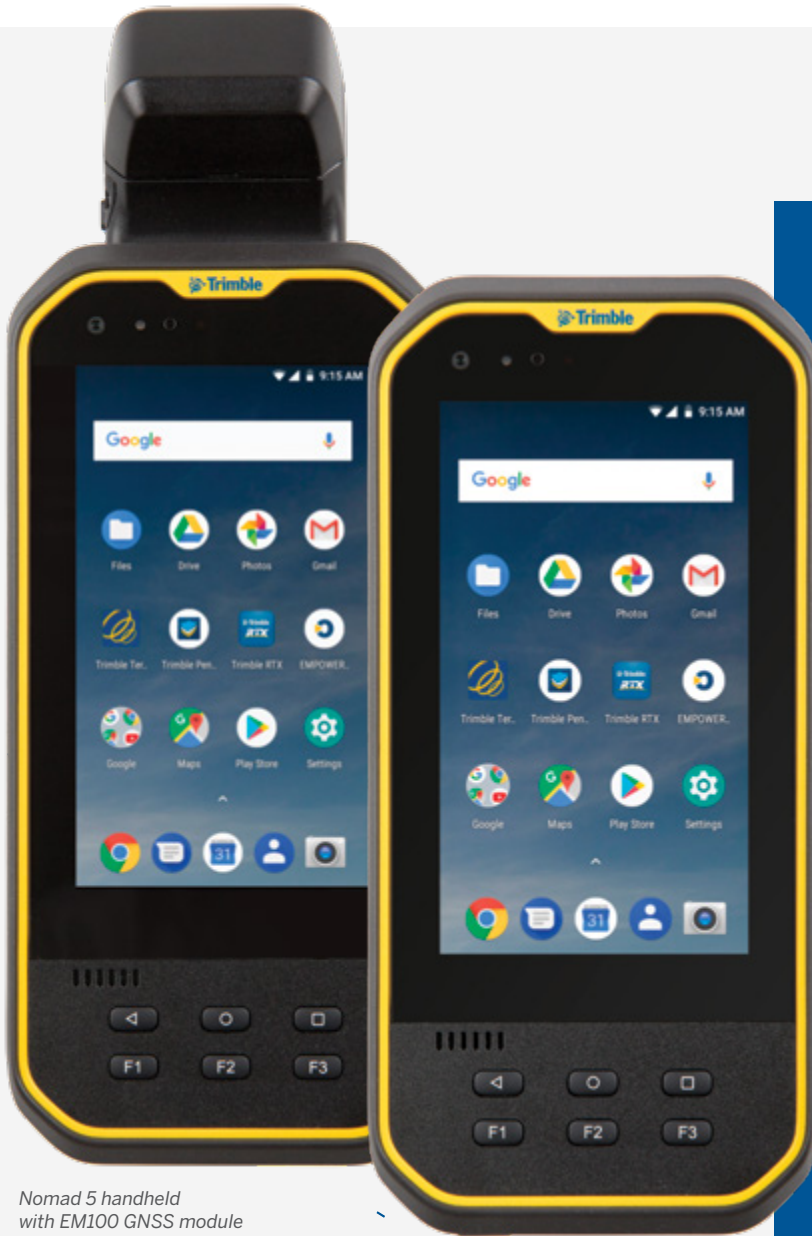




Trimble Nomad 5

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

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

COMMUNICATIONS¹

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® Bluetooth 2.1 + EDR Bluetooth v 4.1 (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 SBAS², RTCM V2.3
 Raw data output (postprocessing) Yes
 Horizontal accuracy³ 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 life⁴ 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/m²

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) IP65 and IP68 (IEC 60529)
 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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