



## KEY FEATURES

High-performance all-in-one integrated GPS device

Comes with a range of GIS field software solutions

6 GB built-in storage as standard

Ultra-rugged form factor

Integrated cellular modem option

Integrated digital camera and barcode scanner options



## FEATURE-PACKED HIGH PERFORMANCE GPS HANDHELDS FOR GIS APPLICATIONS

The Trimble® Nomad™ G series of integrated GPS handhelds offers all-in-one convenience in a device engineered for superior performance in harsh environments. The Trimble Nomad G series offers full compatibility with Trimble Mapping & GIS software and a choice of configurations to match your existing workflow.

### Standalone performance

The Trimble Nomad G series handhelds feature a huge 6 GB of Flash storage, 128 MB of RAM, a powerful 806 MHz processor, wireless LAN and Bluetooth® technology wireless connectivity, SecureDigital (SD) slot for removable cards, and a 3.5 inch (8.9 cm) VGA display. With a variety of configuration options, including cellular modem, digital camera, laser bar code scanner, and CompactFlash (CF) expansion options, the Trimble Nomad G series provides a range of all-in-one solutions for field data collection and inspection activities.

### Productivity in harsh conditions

Trimble Nomad G series handhelds are equipped with an integrated GPS receiver designed for productive data collection in difficult GPS conditions such as under forest canopy or near tall buildings. The Trimble Nomad G series is ideally suited to applications, such as forestry mapping or natural resource management, where GPS accuracy may be less important but high productivity is essential. Local government or utility workers can inventory assets close to buildings with confidence using the high sensitivity GPS. Postprocessing with Trimble's professional grade office software delivers reliable 2 to 5 meter accuracy and is the best way to control the quality and consistency of your data.

### Built for extremes

The Trimble Nomad G series will surpass your expectations for ruggedness and performance in any environment. You don't have to compromise on ruggedness by carrying non-rugged peripherals, or connecting to additional equipment via exposed expansion ports. The Trimble Nomad G series meets the rigorous MIL-STD-810F military standard for drops, vibration, humidity, and extreme temperature. It also comes with an IP67 rating, meaning that it is

completely sealed from dust, and can survive submersion in up to 1 meter (3 feet) of water for 30 minutes.

### Wireless internet connectivity from the field

Download and transmit data over the Internet with a workflow that doesn't rely on the availability of wireless hotspots and eliminates the need to tether to an external modem. Using a Trimble Nomad G series handheld with the integrated cellular modem option, you have a true one-device solution for collecting, processing, and transmitting data or to check and send email without the need to physically return to the office. You can also use the handheld as a data-logger for high accuracy applications by teaming it up with a Trimble GPS Pathfinder® ProXRT receiver. Connect the Trimble Nomad G series handheld directly to a VRS™ correction stream using the integrated cellular modem for decimeter accuracy in real time.

### Onboard image capture and barcode options

Capturing digital photographs in the field has never been so easy. Using the optional integrated camera, images are stored directly on the device and are available straight away to be used by your field software. No need to carry a separate camera and with 6 GB of onboard storage you can capture a large number of images. Reduce the time spent on manual data entry by using the optional integrated barcode scanner to automate data collection and asset tracking.

### Part of the Trimble product family

As part of Trimble's family of GPS solutions, the Trimble Nomad G series is fully compatible with Trimble software solutions for professional GIS data collection and maintenance. Existing customers can continue to use the same streamlined workflows and infrastructure.

Integrate your data collection workflow with the Trimble Nomad G series handheld. Because it's a Trimble solution, you have a single point of contact for service and support, and you can rest assured that you are equipping your mobile workforce with the quality and reliability that Trimble represents.

# Trimble Nomad G series

## STANDARD FEATURES

### System

- Windows Mobile® version 6 operating system
- 806 MHz XScale processor
- 128 MB DDR SDRAM
- 6 GB non-volatile Flash storage
- Secure Digital (SDIO) memory card slot
- Integrated Bluetooth 2.01
- Integrated 802.11 b/g wireless LAN
- 3.5 inch (8.9 cm) VGA display, sunlight-readable color touchscreen
- Integrated speaker and microphone
- Numeric style keypad
- Rechargeable battery, user-removable, hot-swappable
- 15 hour battery life with active use (default settings)
- 12-month limited warranty

### GPS

- Integrated SiRF Star III GPS receiver with 2–5 m postprocessed accuracy

### Standard Software

- GPS Controller software for controlling NMEA output and in-field mission planning
- Microsoft® Office Mobile
- Transcriber (handwriting recognition)

### Standard Accessories

- Rechargeable Li-Ion battery module
- Rugged stylus with spring-loaded tip
- Stylus lanyard
- AC Power supply with International adapter kit
- USB data cable
- User guide
- Hand strap
- Screen protectors (2-pack)
- Getting Started CD with ActiveSync® technology
- Serial boot with RS232 and USB client connectors

### CONFIGURATION OPTIONS

- Integrated cellular modem
- Integrated digital camera (color, 2-megapixel resolution)
- Integrated laser 1D bar code scanner
- CompactFlash (CF) (Type II) slot

### TRIMBLE NOMAD G SERIES CONFIGURATIONS

	Flash	GPS	BT	802.11b/g	Modem	Expansion	Laser scanner	Camera	Keypad
800GL	6 GB	X	X	X		SD/CF			Numeric
800GLC	6 GB	X	X	X		SD		X	Numeric
800GLE	6 GB	X	X	X		SD	X	X	Numeric
800GX	6 GB	X	X	X	GPRS/EDGE <sup>2</sup>	SD/CF			Numeric
800GXC	6 GB	X	X	X	GPRS/EDGE <sup>2</sup>	SD		X	Numeric
800GXE	6 GB	X	X	X	GPRS/EDGE <sup>2</sup>	SD	X	X	Numeric

### OPTIONAL FEATURES

#### Optional Software

- TerraSync™ software
- Trimble GPScorrect™ extension for ESRI ArcPad software
- GPS Pathfinder Tools Software Development Kit (SDK)
- GPS Pathfinder Office software
- Trimble GPS Analyst™ extension for ESRI ArcGIS Desktop software

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### Optional Accessories

- Nylon carry case
- Spare battery charger
- Extended cap
- USB Boot with USB-client, USB-host, and audio jack
- 12 V vehicle charging cable
- Vehicle mount
- Serial interface cable
- AA Battery Module

### TECHNICAL SPECIFICATIONS

#### Physical

Size ..... 17.6 cm x 10.0 cm x 5.0 cm (6.92 in x 3.92 in x 1.96 in)  
 Weight ..... 558 g (1.23 lb) including rechargeable battery  
 Processor ..... 806 MHz XScale processor  
 Memory ..... 6 GB Internal Flash Storage  
 Battery ..... Field swappable 5200 mAh Li-Ion rechargeable battery

#### Environmental

Operating temperature ..... -30 °C to +60 °C (-22 °F to +140 °F)  
 Storage temperature ..... -40 °C to +70 °C (-40 °F to +158 °F)  
 Humidity ..... MIL-STD-810F, Method 507.4  
 Sand and dust ..... IP67, MIL-STD-810F, Method 510.3, Procedures I & II  
 Water ..... IP67, MIL-STD-810F, Method 512.4, Procedure I  
 Drop ..... 1.22 m (4 ft), MIL-STD-810F, Method 516.5, Procedure IV  
 Vibration ..... Vibration resistant, MIL-STD 810F, Method 514.5, Procedures I & II  
 Altitude ..... 15,000 ft at +23 °C (+73 °F), MIL-STD-810F, Method 500.4  
 Procedures I, II & III

#### Input/Output

Communications ..... Bluetooth<sup>1</sup> 2.0 + EDR, 802.11 b/g wireless LAN WPA2  
 Optional integrated cellular modem: GSM GPRS/EDGE<sup>2</sup>  
 DE9 (M) RS-232 serial, USB client port  
 USB host port via optional USB Boot accessory  
 Bluetooth Profiles ..... Dial-up Networking (DUN)—Terminal role only  
 Advanced Audio Distribution Profile (A2DP)—Source role only  
 Human Interface Device (HID), Object Push Profile (OPP)  
 Personal Area Networking (PAN)—Network AccessPoint role only  
 Serial Port Profile, ActiveSync over Bluetooth  
 Display ..... 480 x 640 pixel (VGA) 16 bit color TFT with LED backlight  
 Audio ..... Mono speaker, unidirectional microphone speaker  
 Record and playback utilities  
 Interface ..... Touch screen, backlit hardware control keys  
 Audio system events, warnings, and notifications  
 Soft Input Panel (SIP) virtual keyboard and handwriting  
 recognition software, power status LED

#### GPS

Channels ..... 12 (L1 code only)  
 Update rate ..... 1 Hz  
 Time to first fix ..... 50 seconds (typical)  
 Protocols ..... SiRF, NMEA-0183 (NMEA output at 9600 bps)

#### Accuracy (HRMS) after differential correction<sup>3</sup>

Code postprocessed ..... 2–5 m  
 Real-time (WAAS<sup>4</sup>) ..... 2–5 m

#### Certifications

FCC, CE/R&TTE, C-Tick, RoHS Compliant, PTCRB, and GCF Compliant

Specifications subject to change without notice.

- 1 Bluetooth type approvals are country specific. The Trimble Nomad G series has Bluetooth approvals in the U.S., Canada, the EU, Australia, and New Zealand. For other countries please contact your local Distributor.
- 2 Trimble Nomad 800GX, 800GXC, and 800GXE only. The 800GX, 800GXC, and 800GXE operate on any GSM network that does not require carrier certification. Consult with your Trimble reseller for more information.
- 3 Horizontal Root Mean Squared accuracy. Requires data to be collected using horizontal mounting, minimum of 4 satellites, PDOP mask at 99, SNR mask at 12 dBHz, elevation mask at 5 degrees, and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstruction of the sky by buildings or heavy tree canopy may degrade precision by interfering with signal reception. Accuracy varies with proximity to base station by +1 ppm for postprocessing and real-time.
- 4 WAAS (Wide Area Augmentation System) available in North America only.

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