Trimble Nomad series

KEY FEATURES

High-performance all-in-one device

Optional integrated GPS with 2 to 5 meter postprocessed accuracy

Ultra-rugged form factor

Integrated digital camera and barcode scanner options

Fully compatible with Trimble Mapping & GIS software

A FEATURE-PACKED HIGH PERFORMANCE HANDHELD FOR GIS APPLICATIONS

The Trimble® Nomad™ series offers all-in-one convenience in a light-weight device—engineered for superior performance in harsh outdoor environments. Trimble Nomad handhelds are productivity-focused GIS data collection devices offering full compatibility with Trimble Mapping & GIS software and a choice of configurations to match your existing workflow.

Standalone performance

The Trimble Nomad handheld has a powerful 806 MHz processor, 128 MB of RAM, up to 1 GB of Flash storage, integrated wireless capabilities, and a high resolution VGA display. Applications run smoothly and maps are displayed with never seen before clarity. With a variety of configuration options, including integrated GPS, integrated digital camera, and an integrated laser barcode scanner, the Trimble Nomad handheld provides an all-in-one solution for field data collection and inspection activities.

Productivity in harsh conditions

The Trimble Nomad 800L, 800LC, and 800LE handhelds are equipped with an integrated GPS receiver designed for productive data collection in difficult GPS conditions such as under forest canopy or against tall buildings. In applications, such as forestry mapping and natural resource management, where accuracy may be less important but high productivity is essential, the Trimble Nomad handheld is ideally suited.

If you need better accuracy than you can achieve autonomously, you can postprocess your GPS data with Trimble's professional grade office software. Postprocessing 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 handheld will meet and surpass your expectations for ruggedness and performance in all conditions. You don't need to compromise on ruggedness by carrying non-rugged peripherals, or connecting to additional equipment via exposed expansion ports. The Nomad 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 the Trimble Nomad handheld is completely sealed from dust, and can survive submersion in up to 1 meter of water for 30 minutes.

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. Reduce the time spent on manual data entry by using the optional integrated barcode scanner to automate data collection and asset tracking workflow.

Part of the Trimble product family

As part of Trimble's family of GPS solutions, the Trimble Nomad 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 DGPS infrastructure.

In the field, you have a choice of TerraSync™ software or the Trimble GPScorrect™ extension for ESRI ArcPad. You can also choose any off-the-shelf NMEA protocol GPS field software, or use the GPS Pathfinder® Tools Software Development Kit (SDK) to build an application that's customized to your needs. Office processing and postprocessing capability is provided with GPS Pathfinder Office software and Trimble GPS Analyst™ extension for ESRI ArcGIS.

Integrate your data collection workflow with the Trimble Nomad 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®

STANDARD FEATURES

System

- Windows Mobile® version 6.0 software
- 806 MHz XScale processor
- 128 MB DDR SDRAM
- 1 GB non-volatile Flash storage[1]
- Secure Digital (SDIO) memory card slot
- CompactFlash (CF) (Type II) slot[2]
- Integrated Bluetooth® 2.0
- USB Boot with USB-host, and audio jack
- VGA display (480 x 640), sunlight-readable color touchscreen
- Integrated speaker and microphone
- Notification LEDs
- 15 hour battery life with active use (default settings)
- Numeric style keypad
- Audio jack
- 12-month limited warranty

Standard Software

- GPS Controller 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®

CONFIGURATION OPTIONS

- Integrated 802.11 b/g wireless LAN for local network connectivity
- Integrated GPS (2–5 m postprocessed accuracy)[3]
- Integrated 1D laser barcode scanner
- Integrated digital camera (color, 2-megapixel resolution)
- PDA or numeric style keypad

TRIMBLE NOMAD SERIES CONFIGURATIONS								
	Flash	GPS	BT	802.11 b/g	Card slots	Laser scanner	Camera	Keypad
800LE	1 GB	X	X	X	SD	X	X	Numeric only
800LC	1 GB	X	X	X	SD		X	PDA or Numeric
800L	1 GB	X	X	X	SD/CF			PDA or Numeric
800B	512 MB		X		SD/CF			PDA or 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 software

Optional Accessories

- Nylon carry case
- Serial boot with 9-pin RS-232
- Spare battery charger
- Tripod bracket
- Range pole bracket
- 12 V vehicle charging cable
- Vehicle mount
- Serial interface cable
- Extended cap

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 . . . . 128 MB RAM and 1 GB[1] Internal Flash Disk
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 . . . . .MIL-STD-810F, Method 516.5, Procedure IV
26 drops from 4 ft (1.22 m) onto plywood over concrete
6 additional drops at –30 °C (–22 °F)
6 additional drops at +60 °C (+140 °F)
Vibration. . . . . .MIL-STD 810F, Method 514.5, Procedures I &II
Altitude. . . . . MIL-STD-810F, Method 500.4, Procedures I, II & III
15,000 ft at +23 °C (+73 °F)

Input/Output

Expansion . . . . 1x SDIO slot, 1 × Type II CF slot[2]
Display . . . . 480 x 640 pixel (VGA) 16 bit color TFT with LED backlight
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
Audio . . . . Mono speaker, unidirectional microphone speaker
Record and playback utilities
I/O . . . . USB host and client, power, audio jack
Radios . . . . Bluetooth 2.0[4] + EDR, 802.11 b/g wireless LAN WPA2

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[5]

Code Postprocessed. . . . . 2–5 m

Specifications subject to change without notice.

1 800B has 512MB Flash storage.
2 800LC and 800LE models are not equipped with CF slot.
3 The Trimble Nomad handheld is not specified to provide real-time SBAS (WAAS/EGNOS/MSAS) differential correction.
4 Bluetooth type approvals are country specific. The Trimble Nomad series has Bluetooth approvals in the U.S., Canada, the EU, Australia, and New Zealand. For other countries please contact your local Distributor.
5 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.
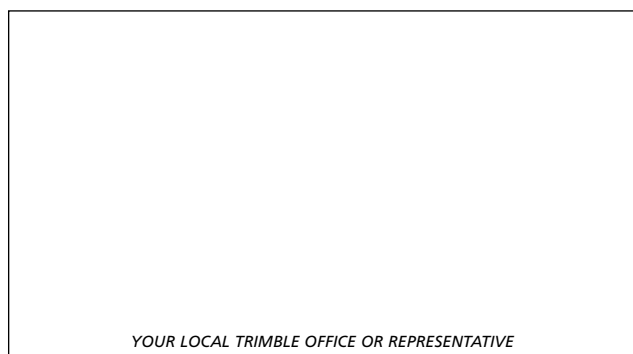
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