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 cellular modem option

Integrated digital camera and barcode scanner options

Fully compatible with Trimble Mapping & GIS software

FEATURE-PACKED HIGH PERFORMANCE HANDHELDS FOR GIS APPLICATIONS

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

Standalone performance

The Trimble Nomad series handhelds feature a powerful 806 MHz processor, 128 MB of RAM, up to 2 GB of Flash storage, Bluetooth® technology wireless connectivity, and a 3.5 inch (8.9 cm) VGA display. With a variety of configuration options, including cellular modem, wireless LAN, integrated GPS, digital camera, and laser bar code scanner, the Trimble Nomad series provides a range of all-in-one solutions for field data collection and inspection activities.

Productivity in harsh conditions

Trimble Nomad 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 series is ideally suited to applications, such as forestry mapping or natural resource management, where accuracy may be less important but high productivity is essential. You can also postprocess your GPS data with Trimble's professional grade office software. Postprocessing can deliver 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 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 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 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 a modem. Using a Trimble Nomad 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 Trimble Nomad handheld as a data-logger for high accuracy applications by teaming it up with a Trimble GPS Pathfinder® ProXRT receiver. Connect the Trimble Nomad handheld directly to a VRS™ (Virtual Reference Station) correction stream using the dedicated internal 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. 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 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.

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.

Trimble Nomad series

STANDARD FEATURES

System
- Windows Mobile® version 6 operating system
- 806 MHz XScale processor
- 128 MB DDR SDRAM
- Up to 2 GB non-volatile Flash storage[1]
- Secure Digital (SDIO) memory card slot
- Integrated Bluetooth 2.0[2]
- USB Boot with USB-client, USB-host, and audio jack
- 3.5 inch (8.9 cm) VGA display, sunlight-readable color touchscreen
- Integrated speaker and microphone
- 15 hour battery life with active use (default settings)
- 12-month limited warranty

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

CONFIGURATION OPTIONS
- Integrated 802.11 b/g wireless connectivity
- Integrated cellular modem
- Integrated GPS (2–5 m postprocessed accuracy)[3]
- Integrated laser 1D bar code scanner
- Integrated digital camera (color, 2-megapixel resolution)
- PDA or numeric style keypad
- CompactFlash (CF) (Type II) slot

TRIMBLE NOMAD SERIES CONFIGURATIONS

	Flash	GPS	BT	802.11b/g	Modem	Expansion	Laser scanner	Camera	Keypad
800XE	2 GB	X	X	X	GPRS/EDGE[5]	SD	X	X	Numeric
800XC	2 GB	X	X	X	GPRS/EDGE[5]	SD		X	Numeric
800X	2 GB	X	X	X	GPRS/EDGE[5]	SD/CF			Numeric
800LE	1 GB	X	X	X		SD	X	X	Numeric
800LD	1 GB	X	X	X	RTT/EV-DO[4]	SD			Numeric
800LC	1 GB	X	X	X		SD		X	PDA/Numeric
800L	1 GB	X	X	X		SD/CF			PDA/Numeric
800B	512 MB		X			SD/CF			PDA/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
- Extended cap
- 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 . . . . 596 g (1.23 lb) including rechargeable battery
Processor. . . . . 806 MHz XScale processor
Memory . . . . .128 MB RAM, 512 MB–2 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 . . . . 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[2] 2.0 + EDR, 802.11 b/g wireless LAN WPA2
Integrated cellular modem: GSM GPRS/EDGE[5]
USB broadband cellular modem: CDMA 1xRTT 1xEV-DO[4]
USB host port , USB client port
DE9 (M) RS-232 serial via optional Serial 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[6]
Code Postprocessed. . . . . 2–5 m

Certifications
FCC, CE/R&TTE, C-Tick, RoHS Compliant, GCF Compliant
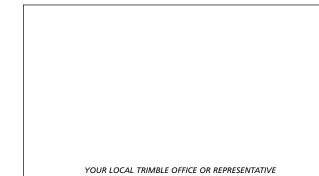
Specifications subject to change without notice.

1 800B has 512MB Flash storage, 800L, 800LC, 800LD, and 800LE have 1 GB Flash storage. 800X, 800XC, and 800XE have 2 GB Flash storage.
2 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.
3 The Trimble Nomad handheld is not specified to provide real-time SBAS (WAAS/EGNOS/MSAS) differential correction.
4 Nomad 800LD only. The CDMA 1xRTT 1xEV-DO option is provided by the Nomad cellular modem accessory. This accessory is certified on the USA Sprint network only. Visit www.sprint.com to view the data coverage map for your geographical area.
5 Nomad 800X, 800XC, and 800XE only. These models operate on any GSM network that does not require carrier certification. Consult with your carrier for more information.
6 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.

Bluetooth®

NORTH & SOUTH AMERICA
Trimble Navigation Limited
10355 Westmoor Drive
Suite #100
Westminster, CO 80021
USA
+1-720-587-4574 Phone
+1-720-587-4878 Fax

EUROPE & AFRICA
Trimble GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY
+49-6142-2100-0 Phone
+49-6142-2100-550 Fax

ASIA-PACIFIC & MIDDLE EAST
Trimble Navigation
Singapore PTE Limited
80 Marine Parade Road
#22-06 Parkway Parade
Singapore, 449269
SINGAPORE
+65-6348-2212 Phone
+65-6348-2232 Fax

YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

Trimble®

www.trimble.com
store.trimble.com