NOMAD

RUGGED HANDHELD COMPUTER

KEY FEATURES

- Outdoor rugged design
- Long-life battery
- 806 MHz processor
- Integrated WWAN capability
- Integrated GPS with SiRFstarIII and SiRFInstantFixII
- Integrated bar code scanner

- Integrated 5MP camera, with flash and geotagging
- Integrated Bluetooth and Wi-Fi wireless capability
- Full VGA display
- Windows Mobile 6.1
- Small and lightweight

The Trimble® Nomad® 900 series packs even more functionality into one of the most powerful and full-featured rugged handheld computers available. Standard features include an 806 MHz processor, a long-life lithium-ion battery, 512 MB to 2 GB of Flash storage and integrated wireless capabilities like GPS, Wi-Fi and Bluetooth®[1]. The high-resolution, sunlight-visible VGA display shows images, maps and data in crisp detail. Optional features include an integrated cellular WWAN, laser bar code scanner and a 5 MP color digital camera.

The Nomad computer also includes the latest Windows Mobile® 6.1 software, so it runs all the applications you use most, including a wide range of third-party software for industry specific applications.

Built-in versatility
The Nomad computer's many builtin capabilities make it easy to collect, save and transmit data in the field. The integrated SiRFstarIII GPS receiver with SiRFInstantFixII technology enables position acquisition in less time and in challenging environments such as in canyons, under heavy canopy and even inside buildings[2]. Now navigation is faster, more accurate, more reliable and more consistently available.

Quickly track your assets with the integrated 1D laser bar code scanner and upload changes from the field. The 5 megapixel camera and geotag-enabled software can capture high-resolution, full color images for inspection, maintenance and repair applications. With geotagging enabled, your photos will have precise locations stored in EXIF and/or overlaid on the image.

All models come with a Secure Digital (SD/SDHC) slot. Depending on the model, even more capabilities can be added via a CompactFlash (CF Type II) slot.

Tough as the outdoors
Like other Trimble rugged handhelds, the Nomad computer meets rigorous MIL-STD-810F military standards for impact, vibration, humidity, altitude and extreme temperatures. It also comes with an IP67 rating. That means the Nomad handheld is completely sealed against dust, and it can survive immersion in up to a meter of water for 30 minutes. Trimble rugged handhelds have proven their reliability and lower Total Cost of Ownership (TCO) over consumer grade handhelds[3] in the field with thousands of real world users.

Ideal mobile application platform
The Marvell 806 MHz processor, when combined with Trimble's optimized graphics processing, advanced caching, and proprietary high-speed journaling file system, makes the next generation Trimble Nomad series one of the fastest Windows Mobile handheld computers on the market today. Tuned to maximize the integrated GPS receiver's performance, the next generation Nomad also has an improved antenna design which significantly improves Time-to-First-Fix (TTFF) and fix under thick canopy.

Want to do more outside? Get the handheld that has more inside. Get your hands on a Nomad handheld computer.

1 Nomad 900B models have Bluetooth only.
2 Tracking ability and position accuracy will vary depending on building construction.
3 E-mail us at handhelds@trimble.com for a copy of the TCO White Paper.

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FORESTRY

www.trimble.com/forestry

STANDARD FEATURES

- Windows Mobile 6.1 (Professional in WWAN models; Classic in all other models)
- Marvell 806 MHz XScale processor
- 128 MB DDR SDRAM
- 512 MB to 2 GB non-volatile Flash storage (4 GB SD card included with camera models)
- Full VGA display, sunlight-readable color TFT
- Touchscreen
- Rugged submersible design
- Integrated speaker and microphone
- Integrated Bluetooth 2.0
- Secure Digital (SD/SDHC) slot
- Numeric keypad
- Notification LEDs
- USB host and client
- Headset jack (2.5 mm mono audio and microphone)
- 15-hour battery life (in active use with default settings)
- Keypad backlight for night use
- 12-month limited warranty

CONFIGURATION OPTIONS (See Nomad Configurations table below for details)

- Integrated Quad-band GSM GPRS/EDGE capability
- Integrated GPS (SiRFstarIII, WAAS / SBAS capable, SiRFInstantFixII)
- Integrated Wi-Fi wireless capability
- CompactFlash (CF) (Type II) slot
- Integrated laser 1D bar code scanner
- Integrated digital camera (color, 5 megapixel resolution, with flash)
- Serial boot with 9-pin RS-232 port

STANDARD SOFTWARE

- Microsoft Office Mobile
  - Word Mobile
  - Excel Mobile
  - PowerPoint Mobile
  - Outlook Mobile
  - Pocket OneNote
- Internet Explorer Mobile
- Notes/Tasks
- Calculator
- Windows Media Player
- Microsoft Pictures and Videos
- Online help
- Contacts/Calendar
- Adobe Reader LE

STANDARD ACCESSORIES

- Rechargeable Li-ion battery module
- Rugged stylus with spring-loaded tip
- Stylus lanyard
- AC charger and international adapters
- USB data cable
- Standard Cap
- User's guide
- Hand strap
- Screen protectors
- Getting Started CD with ActiveSync
- USB boot

OPTIONAL ACCESSORIES

- Carry case
- Deluxe case with belt clip & neck strap
- Serial boot with 9-pin RS-232 port
- Serial interface cable
- AA battery module
- Spare battery charger
- Extended Cap
- Range pole bracket
- 12 V vehicle charger
- Vehicle mount
- Trigger pistol grip

PHYSICAL

Size . . . . 6.92 in x 3.92 in x 1.96 in (17.6 cm x 10 cm x 5.0 cm)
Weight . . . . .21 ounces (596 g) including rechargeable battery
Housing . . . . .Polycarbonate
Color . . . . .Yellow w/Black, Grey w/Black or Green w/Black

CERTIFICATIONS: FCC, CE/R & TTE, IC (Canada), C-Tick, RoHS Compliant, PTCRB, GCF Compliant, AT&T network compatible, Section 508 compliant, CCX v4 ASD, MIL-STD-461E RE102, MIL-STD-461E RS103

ENVIRONMENTAL SPECIFICATIONS

Meets or exceeds:

Water . . . . Immersed in 3.3 ft (1 meter) of water for 30 minutes
Water Jet 0.5 in dia. @ 8.2 ft–9.8 ft, 26.4 gallons/min
(Water Jet 12.5 mm dia. @ 2.5 m–3 m, 100 Liter/min)
MIL-STD-810F, Method 512.4, Procedure I, IEC-529, IP67

Sand & dust . . . . 8 hours of operation with blowing talcum powder
MIL-STD-810F, Method 510.3, Procedure I, II, IEC-529, IP67

Drop . . . . 26 drops at room temperature from 4 ft (1.22 m)
onto plywood over concrete
6 additional drops at –22 °F (–30 °C)
6 additional drops at 140 °F (60 °C)
MIL-STD-810F, Method 516.5, Procedure IV

Vibration . . . . General Minimum Integrity and Loose Cargo tests
MIL-STD-810F, Method 514.5, Procedure I, II

Operating Temperature . . . . –22 °F to 140 °F (–30 °C to 60 °C)
MIL-STD-810F, Method 501.4, Procedure II
MIL-STD-810F, Method 502.4, Procedure I, II, III

Storage Temperature . . . . –40 °F to 158 °F (–40 °C to 70 °C)
MIL-STD-810F, Method 501.4, Procedure I
MIL-STD-810F, Method 502.4, Procedure I, II, III

Temperature shock. . . . . –22 °F/149 °F (–30 °C/+65 °C)
MIL-STD-810F, Method 503.4, Procedure I

Humidity . . . . 90%RH temp cycle 32 °F/158 °F (0 °C/+70°C)
MIL-STD-810F, Method 507.4

Altitude . . . . .15,000 ft (4,572 m) at 73 °F (23 °C)
to 40,000 ft (12,192 m) at –22 °F (–30 °C)
MIL-STD-810F, Method 500.5, Procedure I, II, III

ELECTRICAL

Processor . . . . .Marvell PXA320 XScale 806 MHz
Memory . . . . 128 MB DDR SDRAM; ~30 MB reserved
Storage . 512 MB to 2 GB onboard non-volatile NAND Flash; ~50 MB reserved
Expansion . . . . 1x SD/SDHC slot (all models),
1x Type II CF slot (900B, 900L, 900X)
4 GB SD card included in camera-equipped Nomad 900 models
Display . . . . 480 x 640 pixel (VGA) 16-bit color TFT with LED backlight
Batteries . . . . 5200 mAh Li-ion rechargeable module[4]
I/O . . . . USB host and client, power, headset jack
GPS accuracy . . . . 2–4 m SBAS corrected[5]
Radios . . . . .Bluetooth 2.0 + EDR;
WLAN: Wi-Fi (CCX v4 ASD) (802.11b/g);
WWAN: Quad-band GSM GPRS/EDGE

4 To ensure best performance when temperatures are below –4 °F (–20 °C), be sure battery is inserted in the device only when in use. When device is not in use at these temperatures, keep batteries in a pocket or stored in a warmer area.

5 2–4 m (50%–95%) accuracy determined using Horizontal Root Mean Squared method – Open Sky.

NOMAD CONFIGURATIONS

	Flash	Card slots	BT	GPS	Wi-Fi	WWAN	Camera	Bar code scanner
900B	512 MB	SD/CF	X					
900L	1 GB	SD/CF	X	X	X			
900LC	1 GB	SD	X	X	X		X	
900LE	1 GB	SD	X	X	X		X	X
900X	2 GB	SD/CF	X	X	X	X		
900XE	2 GB	SD	X	X	X	X	X	X
800LC	1 GB	SD	X	X	X		X	

Color display images shown may vary slightly from actual display. Specifications subject to change without notice.

Trimble Nomad has tested compatible with Cisco wireless access points with CCX features.

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