KEY FEATURES

High-performance all-in-one integrated GNSS device

6 GB built-in storage as standard

Ultra-rugged form factor

Integrated cellular modem option

Integrated digital 5 megapixel camera and barcode scanner options

FEATURE-PACKED HIGH PERFORMANCE GNSS HANDHELDS FOR GIS APPLICATIONS

The Trimble® Nomad® 900G series of integrated GNSS handhelds offers all-in-one convenience in a device engineered for superior performance in harsh environments. The Nomad 900G series is compatible with all Trimble Mapping & GIS software, and provides a choice of configurations to match existing workflows.

Standalone performance

The Trimble Nomad 900G series handhelds feature a huge 6 GB of Flash storage, 128 MB of RAM, a powerful 806 MHz processor, Wi-Fi and Bluetooth® wireless technology connectivity, a SecureDigital (SD) slot for removable cards, and a 3.5 inch (8.9 cm) VGA display. With a variety of configuration options, including a cellular modem, 5 megapixel digital camera with integrated flash, a laser bar code scanner, and CompactFlash (CF) and USB expansion options, the Nomad 900G series provides a range of all-in-one solutions for field data collection and asset management activities.

Productivity in harsh conditions

Trimble Nomad 900G series handhelds are equipped with a high yield integrated GNSS receiver designed for productive data collection in difficult GNSS conditions such as under forest canopy or near tall buildings. The Trimble Nomad 900G series is ideally suited to applications, such as forestry mapping or natural resource management, where high productivity is essential. Local government or utility workers can inventory assets close to buildings with confidence using the high sensitivity GNSS. Postprocessing with Trimble professional grade office software delivers reliable 1 to 3 meter accuracy and is the best way to control the quality and consistency of data.

Built for extremes

The Trimble Nomad 900G series will surpass expectations for ruggedness and performance in any environment. There is no compromise on ruggedness—no need to carry non-rugged peripherals, or connect to additional equipment via exposed expansion ports. The Nomad 900G series meets the rigorous MIL-STD-810F military standard for drops, vibration, humidity, and extreme temperature. It also comes with an IP68 rating, meaning that it is completely sealed from dust, and can survive submersion in up to 1 meter (3 feet) of water for 4 hours.

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 900G series handheld with the integrated cellular modem option gives a true one-device solution for collecting, processing, and transmitting data, or for checking and sending email, without the need to physically return to the office. Use the handheld as a data-logger for high accuracy applications by teaming it up with a Trimble Pro series or GPS Pathfinder® ProXRT receiver. Connect the Nomad 900G series handheld directly to a Trimble 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. No need to carry a separate camera—using the optional integrated 5 megapixel camera, images are stored directly on the device and are available straight away to be used by the field software. With 6 GB of onboard storage and a 4 GB SDHC card supplied as standard in supported models with an integrated camera, it is easy to 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 the Trimble family of GNSS solutions, the Nomad 900G series is fully compatible with Trimble software solutions for professional GIS data collection and maintenance.

Integrate data collection workflow with the Trimble Nomad 900G series handheld. Because it is a Trimble solution, there is a single point of contact for service and support—rest assured that your mobile workforce is equipped with the quality and reliability that Trimble represents.

⊕Trimble.

STANDARD FEATURES

System
- Windows Mobile® version 6.1 operating system in Chinese (Simplified), English, French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, or Spanish
- 806 MHz XScale processor
- 128 MB DDR SDRAM
- 6 GB non-volatile Flash storage
- Secure Digital (SD/SDHC) memory card slot (4 GB SDHC card supplied as standard in camera models)
- Integrated Bluetooth 2.01[1]
- Integrated 802.11 b/g Wi-Fi wireless technology
- 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

GNSS
- Integrated high-sensitivity SiRF Star III GPS/SBAS[2] receiver and antenna
- 2 to 5 meter accuracy after real-time differential correction
- 1 to 3 meter accuracy after postprocessing[3]
- SiRFInstantFixII support
- WAAS/EGNOS support

Standard Software
- 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, 5 megapixel resolution)
- Integrated laser 1D bar code scanner
- CompactFlash (CF) (Type II) slot
- USB Host port

TRIMBLE NOMAD 900G SERIES CONFIGURATIONS

	Flash	GNSS	BT	802.11b/g	Modem	Expansion	Laser scanner	Camera	Keypad
900GL	6 GB	X	X	X		SD/CF			Numeric
900GLC	6 GB	X	X	X		SD		X	Numeric
900GLD	6 GB	X	X	X		SD/USB			Numeric
900GLE	6 GB	X	X	X		SD	X	X	Numeric
900GXE	6 GB	X	X	X	GPRS/EDGE[4]	SD	X	X	Numeric

OPTIONAL FEATURES

Optional Software
- Trimble TerraSync™ software
- Trimble GPS Pathfinder Office software
- Trimble Positions™ software suite
- Trimble GPScorrect™ extension for Esri ArcPad software
- Trimble GPS Analyst™ extension for Esri ArcGIS for Desktop software
- Trimble Municipal Reporter™ system[5]
- Trimble Field Inspector software
- Trimble TrimPix™ Pro system
- Custom applications built with Mobile GIS Developer Community software development kits (SDKs)

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 5000 mAh (nominal) 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 . . . . .IP68, MIL-STD-810F, Method 510.3, Procedures I&II
Water . . . . .IP68, 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[1] 2.0 + EDR, 802.11 b/g Wi-Fi WPA2
Optional integrated cellular modem: GSM GPRS/EDGE[2]
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

GNSS
Channels. . . . . 12 (GPS 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. . . . . .1–3 m^3
Real-time (SBAS[2]). . . . . 2–5 m

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

1 Bluetooth type approvals are country specific. The Nomad 900G series has Bluetooth approvals in the U.S., Canada, the EU, Australia, and New Zealand. For other countries please contact 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 Requires Trimble DeltaPhase™ technology, as supported in Trimble GPS Pathfinder Office software version 4.20 or later, or Trimble Positions Desktop add-in 10.1.0, or Trimble GPS Analyst Extension for Esri ArcGIS for Desktop software, version 2.20 or later.
4 Nomad 900GXE only. The 900GXE operates on any GSM network that does not require carrier certification. Consult with your Trimble reseller for more information.
5 Internet access required for Municipal Reporter system workflows.
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.

Specifications subject to change without notice.

Bluetooth®

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