



Nomad 1050

Rugged Handheld Computer

KEY FEATURES

- 15 hour battery life
- Choice of keypads and connectors (boots)
- Integrated 2-4 meter GPS
- 1D/2D integrated barcode imager
- 3.75G dual-band GSM/CDMA connectivity
- 5 MP camera with flash and geotagging capability
- Integrated Bluetooth® and Wi-Fi capability
- Full-color 3.5" VGA display
- 1.0 GHz Texas Instruments™ Processor
- Microsoft® Windows® Embedded Handheld (WEHH) 6.5
- IP68 rated rugged for any environment



NOMAD 1050: PROVEN TRIMBLE RELIABILITY PACKED WITH TODAY'S TOP HANDHELD FEATURES.

The Trimble® Nomad® 1050 rugged handheld computer's many built-in capabilities make it easy to collect, maintain, save and transmit data in the field. It provides all the features mobile workers need, including: a lithium-ion battery with more than 15 hours of continuous use, 8 GB storage, and a high-resolution, sunlight-readable VGA color display to show images, maps and data in crisp detail.

NOMAD OPTIONS GIVE YOU FIELD FLEXIBILITY

For communications, Nomad offers a full range of integrated wireless capabilities from Bluetooth® to optional 3.75G dual-band GSM/CDMA connectivity.¹

The Nomad 1050 includes Microsoft® Windows® Embedded Handheld 6.5 office software for field compatibility with most back-office applications.

Take advantage of the customization possible with USB and Serial ports, SD slot, boots, caps, and integrated options. The Nomad 1050 even provides a choice of two keypads to provide the best possible workflow options for the field. Use it wearing gloves and still collect data and maintain your datasets with speed and ease.

The Nomad 1050 boasts an advanced Trimble GPS antenna design which reads the full constellation of satellite signals plus SBAS. It gives 2-4 meter positional accuracy, with GPS acquisition in seconds, and works under thick canopy, in canyons or near tall buildings; ideal for both rural and urban data collection requirements.

The 5 megapixel camera software captures high resolution images for maintenance and repair applications. Photographs and videos can be geotagged and the information shared immediately for better business intelligence in real-time.

The 1.0 GHz processor has the power you need for advanced application work, with Trimble's optimized graphics processing, advanced caching, and proprietary high-speed journaling system.

EFFICIENCY FEATURES FOR EVERY WORKFLOW

For today's many barcode matrixes, the LE and XE models offer 1D/2D barcode imaging, with built-in capability to recognize and sort dozens of barcodes at once, ideal for busy warehouses, transportation of products or complex asset tracking.

If you have a proprietary sensor for your workflow, you can use a standard USB connection to integrate that sensor underneath the available Nomad extended cap, and have a fully-rugged product with your own customization. For Ultra High Frequency RFID tag reading, the Nomad 1050 works with a Trimble® ThingMagic® modular accessory.

FULLY RUGGED, OF COURSE

The Nomad 1050 meets the updated MIL-STD-810G military standards for impact, vibration, humidity, altitude, and extreme temperatures - all while boasting an IP68 rating for dust and water.

Tens of thousands of real-world users have proven time after time that the Nomad is more reliable and has a lower Total Cost of Ownership than consumer grade devices.



¹. Depending on selected configuration, models vary in connectivity capabilities

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STANDARD FEATURES

- Microsoft® Windows® Embedded Handheld (WEHH) 6.5 Professional, available in English, Spanish, French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, or Chinese (Simplified)
- Processor: 1.0 GHz, Texas Instruments™ DM3730
- 512 MB DDR SDRAM
- 8 GB non-volatile Flash storage
- Full VGA sunlight-readable color TFT display
- Resistive Touchscreen
- Rugged submersible design (prolonged immersion in water at 1 meter depth)
- IP68 and MIL-STD-810G
- Integrated speaker and microphone
- Bluetooth® 2.0 + EDR
- SDIO/SDHC or a microSD/SDHC slot
- Keypad with choice of button configurations
- 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 Configuration table below for details)

- Integrated Dual-Mode 3.75G GSM /CDMA capability
- Integrated GPS (SiRFstar IV, SBAS (WAAS,EGNOS))
- Wi-Fi b/g wireless capability
- USB host slot
- 1D/2D Integrated laser barcode imager using Trimble Scan Agent application
- Integrated digital camera (color, 5 megapixel resolution, with flash)
- Serial boot option with 9-pin RS-232 port
- Docking boot option compatible with Nomad Office Docking Station
- USB Boot option

HIGH SPEED BARCODE SCANNER

- White light illumination and red LED-based aimer for ease of use
- High-motion tolerance to deliver quick imaging responsiveness
- Omni-directional reading capabilities for real world use conditions
- Rapid Scanning Capability for high read rates no matter what the barcode angle or orientation is in relation to the unit
 - o 1D supported barcode symbologies:
 - EAN/UPC, GS1 Databar (limited expanded & omni-directional), Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved/Matrix/Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, postal codes (Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post)
 - o 2D supported barcode symbologies:
 - Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode, QR, Aztec
- Access to other valuable tools such as:
 - o Multicode reading
 - o data editing
 - o image capture

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- o scanning barcodes on mobile phone screens
- o illumination, aiming, presentation modes

STANDARD ACCESSORIES

- Rechargeable Li-ion battery module
- Orientation Guide
- Rugged stylus with spring-loaded tip
- Hand strap
- Stylus lanyard
- Screen protectors
- AC charger and international adapters
- USB data cable
- USB or Serial boot
- Standard Cap

OPTIONAL ACCESSORIES

- UHF RFID accessory reader (works with all Nomad 1050 models)
- Office Docking Station
- Carry case
- Extended cap for customized solutions
- Deluxe case with belt clip & neck strap
- Range pole bracket
- 12 V vehicle charger
- Serial interface cable
- Vehicle mount
- AA battery module
- Spare battery charger

PHYSICAL

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

ENVIRONMENTAL SPECIFICATIONS

Meets or exceeds:

Water.....Survives IP-X8 , immersion at 2m (6.6 ft) for 1 hour IEC-60529, Survives IP-X6, water jet 12.5mm dia @ 2.5-3m (8-10ft)
Dust.....Protected against dust, IEC-60529 IP-6X, dust chamber under-pressure
Drops.....Survived multiple drops of 1.2m (4ft), MIL-STD-810G, Method 516.6, Procedure IV, Transit Drop
Operating Temperature.....-30 °C to 60 °C (-22 °F to 140 °F), MIL-STD-810G, Method 502.5, Procedure I, II, III (Low Temp Operating -30 °C); Method 501.5, Procedure I & II (High Temp Operating 60 °C)

Storage Temperature.....-40 °C to 70 °C (-40 °F to 158 °F), MIL-STD-810G, Method 502.5, Procedure I, II, III (Low Temp Storage -40 °C); Method 501.5, Procedure I & II (High Temp Storage 70 °C)
Temperature Shock.....Cycles between -30 °C and 60 °C (-22 °F and 144 °F), MIL-STD-810G, Method 503.5, Procedure I-C
Humidity.....90% relative humidity with temperatures between -30 °C and 60 °C (-22 °F and 144 °F), MIL-STD-810G, Method 507.5, Procedure II
Altitude.....4,572 m (15,000 ft) at 23 °C (73 °F) to 12,192 m (40,000 ft) at -30 °C (-22 °F), MIL-STD-810G, Method 500.5, Procedure I, II & III
Vibration.....General minimum integrity and loose cargo tests, MIL-STD-810G, Method 514.6, Procedure I & II, Category 5
Solar Exposure.....Survives prolonged UVB exposure, MIL-STD-810G, Method 505.5, Procedure II
Chemical Exposure.....Resistant to mild alkaline and acid cleaning solutions, fuel hydrocarbons, alcohols and common vehicle and factory machine lubricants

ELECTRICAL

Processor..... 1.0 GHz, Texas Instruments DM3730
Memory..... 512 MB DDR SDRAM; ~10 MB reserved
Storage..... 8 GB onboard non-volatile NAND Flash; ~50 MB reserved
Expansion..... 1x microSD / microSDHC slot (LC, LE, XC, XE models) 1x USB host and 1x SDIO / SDHC slot (B, L and X models)
Display.....3.5", 480 x 640 pixel (full VGA) 16-bit color TFT with LED backlight
Batteries..... 5200 mAh Li-ion rechargeable module²
I/O.....USB host and client, power, headset jack
GPS accuracy..... 2–4 m (6-13 feet) SBAS corrected³
Radios.....Bluetooth 2.0 + EDR; WLAN: Wi-Fi (802.11b/g); WWAN: Dual Mode 3.75G GSM/CDMA

CERTIFICATIONS: FCC, CE, R&TTE, IC (Canada), A-tick, C-tick, GCF compliant, RoHS compliant, Section 508 compliant, PTCRB, SAR, AT&T network certified, Verizon, Wi-Fi Alliance certified, MIL-STD-810G, IP68.

2. To ensure best performance when temperatures are below -20 °C (-4 °F), 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.
3. 2–4 m (50%–95%) accuracy determined using Horizontal Root Mean Squared method – Open Sky.

Specifications subject to change without notice.

Nomad Configurations									
	RAM/Flash	SDIO	MicroSD	Bluetooth	Wi-Fi	GPS	WWAN GSM/CDMA	Camera	Barcode Imager
1050 B	512 MB / 8 GB	●		●					
1050 L		●		●	●	●			
1050 LC			●	●	●	●		●	
1050 LE			●	●	●	●		●	●
1050 X			●	●	●	●	●		
1050 XC			●	●	●	●	●	●	
1050 XE			●	●	●	●	●	●	●



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