



KEY FEATURES

1 to 3 meter GPS with integrated SBAS

High-resolution VGA display for crisp and clear map viewing

Bluetooth and wireless LAN connectivity options

1 GB onboard storage plus SD slot for removable cards

Windows Mobile version 6 operating system

Rugged handheld with all-day battery



THE ESSENTIAL GPS PLATFORM FOR MOBILE WORKERS

The Trimble® GeoXM™ handheld, from the GeoExplorer® 2008 series, is the affordable, all-in-one solution for the mobile workforce that you've been waiting for.

With a GeoXM handheld, your crews will collect reliable 1 to 3 meter GPS data for your GIS, relocating assets with confidence and fulfilling work orders efficiently. And with its built-in Bluetooth® and wireless LAN connectivity, there will be fewer trips to the office, resulting in faster service and more satisfied customers.

Packed full of power

With a powerful 520 MHz processor, 128 MB RAM, and 1 GB of onboard storage, the GeoXM handheld is a high performance device designed to work as hard as you do. The handheld gives you all the power you need to work with maps and large data sets in the field, and its high resolution VGA display allows for crisp and clear viewing of your data.

The GeoXM handheld is powered by the industry-standard Windows Mobile® version 6 operating system so you can choose a software solution designed for your field requirements, whether off-the-shelf or purpose-built.

The Windows Mobile 6 operating system includes familiar Microsoft® software, including Word Mobile, Excel Mobile, and Outlook® Mobile, giving you all the tools you need for a seamless exchange of data between the field and the office.

Convenient connectivity

With the GeoXM handheld you have the flexibility to work exactly the way you want to. Do you need to access the Internet or your organization's secure network to get the most up-to-date data? No problem—with the GeoXM handheld you have built-in wireless LAN and Bluetooth technology to ensure you stay connected.

With Bluetooth wireless technology the GeoXM handheld also offers wireless connection to external devices such as Bluetooth-enabled laser rangefinders and barcode scanners for convenient cable-free solutions that keep you productive in the field.

Built for the field

The GeoXM handheld has an integrated battery, good for a full day's work; simply charge the battery overnight and you're ready to go again. The GeoXM handheld will last the distance, and its rugged design can take a lot of punishment. Rain, hail or shine, it's built to keep working, whatever the weather throws at you.

Reliable GPS accuracy

Because the GPS receiver and antenna are built into the handheld computer, it's never been easier to use GPS in your application. The GeoXM handheld delivers reliable 1 to 3 meter GPS positions when and where you need them.

You can differentially correct in real time, using corrections from a satellite-based augmentation system (SBAS) or even use the integrated Bluetooth radio to connect to a Trimble GeoBeacon™ receiver. For extra precision, collect data using Trimble TerraSync™ software or the Trimble GPSCorrect™ extension for ESRI ArcPad software, and then postprocess it back in the office.

Improve the way you work

If you're serious about improving the way you work, choose the GeoXM handheld from Trimble. It's a rugged handheld that delivers reliable GPS positioning for your GIS—and with flexible options for wireless connectivity, and removable data storage, you'll never be caught short in the field.

Wherever your work takes you, take your GIS with you on a GeoXM handheld.

STANDARD FEATURES

System

- Windows Mobile 6 (Classic edition)
- VGA display (480 x 640), sunlight-readable color touchscreen
- Integrated Bluetooth 1.2 wireless technology
- Integrated 802.11b/g wireless LAN
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable Li-ion battery
- Marvell 520 MHz XScale processor
- 128 MB RAM
- 1 GB non-volatile Flash data storage
- Sealed SD/SDHC card slot
- Integrated speaker and microphone

GPS

- Integrated high-performance GPS/SBAS¹ receiver and L1 antenna
- 1 to 3 meter real-time or postprocessed accuracy
- RTCM and CMR real-time correction support
- TSIP and NMEA protocol support

Standard Software

- GPS Controller for control of integrated GPS and in-field mission planning
- GPS Connector for connecting integrated GPS to external ports
- Microsoft Office Mobile
- Transcriber (handwriting recognition)

Standard Accessories

- Support module
- AC Power supply with International adapter kit
- USB data cable
- Stylus (x 2)
- Screen protectors (2-pack)
- Quick Start Guide
- Getting Started CD
- Hand strap
- Pouch

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
- TrimPix[™] software for wireless camera support. Download from www.trimble.com/trimpix.asp

Optional Accessories

- Power/serial clip (9-pin RS-232 serial connector and power input)
- Vehicle power adaptor²
- Li-ion external power kit²
- Null modem cable²
- Backpack kit
- Hard carry case
- Hurricane antenna kit
- External patch antenna
- Pole-mountable ground plane
- Baseball cap with patch antenna pocket
- 2 meter range pole
- Range pole bracket
- GeoBeacon receiver
- Anti-glare screen protectors (2-pack)

TECHNICAL SPECIFICATIONS

Physical

Size	21.5 cm x 9.9 cm x 7.7 cm (8.5 in x 3.9 in x 3.0 in)
Weight	0.80 kg (1.76 lbs) with battery
Processor	520 MHz Marvell PXA-270 XScale processor
Memory	128 MB RAM and 1 GB internal Flash storage
Battery	Internal 7500 mAh lithium-ion 27.8 Watt-hours, rechargeable in unit

Power usage

Low (no GPS or backlight)	1.8 Watts
Normal (with GPS and backlight ³)	2.6 Watts
High (with GPS, backlight ³ , Bluetooth, and wireless LAN) ⁴	3.7 Watts

Environmental

Operating temperature	-20 °C to +60 °C (-4 °F to 140 °F)
Storage temperature	-30 °C to +70 °C (-22 °F to 158 °F)
Casing	Heavy wind-driven rain and dust-resistant per IP 55 standard Slip-resistant grip, shock and vibration resistant
Drop	0.9 m (3 ft) MIL-STD-810F, Method 516.5, Procedure IV

Input/Output

Expansion	SD card slot (SD or SDHC storage cards)
Display	8.9 cm (3.5 in) VGA (480 x 640 pixel) TFT, 16 bit (65,536) colors LED backlight
Interface	Touch screen, 10 hardware control keys, power status LED Audio system events, warnings, and notifications Soft Input Panel (SIP) virtual keyboard and handwriting recognition software
Audio	Microphone and speaker, record and playback utilities
I/O	USB 1.1 client via support module Serial via optional 9-pin RS-232 power/serial clip adaptor
Radios ⁵	Bluetooth 1.2, Wireless LAN 802.11b/g

GPS

Channels	14 (12 L1 code, 2 SBAS)
Integrated real-time	SBAS ¹ (dual-channel tracking)
Update rate	1 Hz
Time to first fix	30 seconds (typical)
Protocols	Data output: TSIP, NMEA-0183 v3.0 (GGA, VTG, GLL, GSA, ZDA, GSV, RMC) Real-time corrections: RTCM 2.x, RTCM 3.0, CMR, CMR+

Accuracy (HRMS)⁶ after differential correction

Postprocessed	1-3 m
Real-time (SBAS ¹ or external correction source)	1-3 m

¹ SBAS (Satellite Based Augmentation System). Includes WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.

² Power/serial clip also required.

³ With backlight at default setting (50% brightness).

⁴ Power draw will vary depending on radio usage.

⁵ Bluetooth and wireless LAN type approvals are country specific. GeoExplorer 2008 series handhelds have Bluetooth and wireless LAN approval in the U.S. and in most European countries. For further information please consult your local reseller.

⁶ Horizontal Root Mean Squared accuracy, 1-sigma (63%). Requires data to be collected with minimum of 5 satellites, maximum PDOP of 6, minimum SNR of 39 dBHz, minimum elevation of 15 degrees, and reasonable multipath conditions. Ionospheric disturbances, multipath signals or obstruction of the sky by buildings or tree canopy may degrade precision by interfering with signal reception. Except when using VRS corrections, accuracy varies with proximity to base station by +1 ppm for postprocessing and real-time.

Specifications subject to change without notice.

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