DATASHEET

GeoXM handheld

KEY FEATURES

1 to 3 meter GPS with integrated SBAS

Microsoft Windows Mobile 5.0 software, allowing maximum flexibility in software choice

512 MB onboard memory plus removable SD memory

Bluetooth and wireless LAN connectivity options

Rugged handheld with all-day battery

TrimPix technology for wireless camera support

THE ESSENTIAL GPS PLATFORM FOR MOBILE GIS

The Trimble® GeoXM™ handheld is the affordable, all-in-one mobile GIS solution 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.

Software to fit your workflow

The GeoXM handheld comes with a powerful 416 MHz processor powered by Microsoft® Windows Mobile® version 5.0 software. Windows Mobile software is the industry standard open platform for mobile devices, so you can choose a software solution to match your workflow, whether off-the-shelf or purpose built.

Windows Mobile 5.0 features 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.

Using the built-in wireless LAN and TrimPix™ technology, the GeoXM handheld can connect to a range of WiFi-capable Nikon digital cameras for automated capture of digital images. Download the TrimPix software and you have an ideal solution for easily collecting high resolution digital photos to link to your GPS positions.

When connection to your enterprise database isn't an option, the GeoXM handheld offers plenty of secure onboard memory for storing your data. And there's a Secure Digital (SD) memory card slot, allowing you to add gigabytes of memory for all your map data.

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) such as WAAS or EGNOS or even use the integrated Bluetooth radio to connect to a Trimble GeoBeacon™ receiver. For extra precision, collect data using Trimble's TerraSync™ software or the GPScorrect™ extension for ESRI ArcPad software, 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 memory, you'll never be caught short in the field.

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

Trimble®

GeoXM handheld

STANDARD FEATURES

System
- Microsoft Windows Mobile 5.0 software
- 416 MHz Intel X-Scale processor
- 512 MB non-volatile Flash data storage
- Sealed SD card slot
- Outdoor color display
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable battery
- Bluetooth wireless
- 802.11b wireless LAN

GPS
- 1–3 m accuracy in real-time
- Integrated SBAS[1]
- RTCM real-time correction support
- NMEA and TSIP protocol support

Software
- GPS Controller for control of integrated GPS and in-field mission planning
- GPS Connector for connecting integrated GPS to external ports
- Microsoft ActiveSync®, Calculator, File Explorer, Internet Explorer, Pictures, Excel Mobile, Outlook® Mobile (Inbox, Calendar, Contacts, Notes, Tasks), Word Mobile, Windows® Media Player
- Transcriber (handwriting recognition)
- Trimble Navigator Sample Application software
- TrimPix software for wireless camera support. Download from www.trimble.com/trimpix.asp

Accessories
- Support module with power supply and USB data cable
- Getting Started Guide
- Getting Started Disc
- Hand strap
- Pouch
- Stylus kit

OPTIONAL FEATURES

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

Accessories
- Serial clip for field data and power input
- Vehicle power adaptor[2]
- Portable power kit[2]
- Hurricane antenna kit
- External patch antenna
- Pole-mountable ground plane
- Baseball cap with patch antenna pocket
- GeoBeacon receiver
- Hard carry case
- Null modem cable[2]
- Backpack kit
- 2 meter range pole
- Range pole bracket

TECHNICAL SPECIFICATIONS

Physical
Size . . . . . 21.5 cm × 9.9 cm × 7.7 cm (8.5 in × 3.9 in × 3.0 in)
Weight . . . . . 0.78 kg (1.76 lb) with battery
Processor . . . . . 416 MHz Intel PXA-270 X-Scale processor
Memory . . . . . 64 MB RAM and 512 MB internal Flash disk
Power
- Low (no GPS or backlight) . . . . . 1.5 Watts
- Normal (with GPS and backlight) . . . . . 2.7 Watts
- High (with GPS, backlight, Bluetooth, and wireless LAN) . . . . 3.7 Watts[3]

Battery . . . . . Internal 6800 mAh lithium-ion, rechargeable in unit 25 Watt-hours

Environmental
Temperature
- Operating . . . . . –10 °C to +50 °C (14 °F to 122 °F)
- Storage . . . . . –20 °C to +70 °C (–4 °F to 158 °F)

Casing . . . . . Wind-driven rain and dust-resistant per IP 54 standard
Slip-resistant grip, shock and vibration resistant

Input/output
Communications . . . . . Bluetooth[4], 802.11b wireless LAN
USB client v1.1 compliant[5] via support module
Serial via optional DE9 serial clip adaptor
Ethernet 10/100 BaseT compatible via support module

Bluetooth Profiles
- Client and host support . . . . . Serial Port, Object Push
- Client support only . . . . . Dial-Up Networking
- Host support only . . . . . File Transfer (using OBEX)

Display . . . . . Advanced outdoor TFT, 240 × 320 pixel 65,536 colors, with backlight
Audio . . . . . Microphone and speaker, record and playback utilities
Interface . . . . . Touch screen, Soft Input Panel (SIP) virtual keyboard
11 hardware control keys, handwriting recognition software
Audio system events, warnings, and notifications

GPS
Channels . . . . . 12 (L1 code only)
Integrated real-time . . . . . SBAS[1]
Update rate . . . . . 1 Hz
Time to first fix . . . . . 30 seconds (typical)
Protocols . . . . . TSIP, NMEA (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)

Accuracy (HRMS)[6] after differential correction
Postprocessed . . . . . 1–3 m
Real-time (SBAS[1] or external RTCM source) . . . . . 1–3 m

1 SBAS (Satellite Based Augmentation System). Includes WAAS (Wide Area Augmentation System) available in North America only. And EGNOS (European Geostationary Navigation Overlay System) available in Europe only.
2 Serial clip also required.
3 Power draw will vary depending on radio usage.
4 Bluetooth and wireless LAN type approvals are country specific. GeoExplorer 2005 series handhelds have Bluetooth and wireless LAN approval in the U.S. and EU. For other countries please consult your local Reseller.
5 Fully compatible with USB v2.0 computers.
6 Horizontal Root Mean Squared accuracy. Requires data to be collected with minimum of 4 satellites, maximum PDOP of 6, minimum SNR of 39 dBHz, minimum elevation of 15 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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