DATASHEET

GeoXT
handheld

KEY FEATURES

High-performance submeter GPS with integrated SBAS and EVEREST multipath technology

Microsoft Windows Mobile Version 5.0 software for Pocket PC, 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

THE TOTAL GPS PLATFORM FOR ALL YOUR GIS FIELD REQUIREMENTS

The GeoXT™ handheld, from Trimble's GeoExplorer® series, is the essential tool for maintaining your GIS. A high performance, submeter GPS receiver combined with a rugged handheld computer, the GeoXT handheld is ideal for use by utility companies, local government organizations, federal agencies, or anyone managing assets or mapping critical infrastructure who needs accurate data to do the job right—the first time.

Delivering consistent submeter accuracy both real-time and postprocessed, the GeoXT handheld is the most dependable submeter solution available. And it's specifically designed with your GIS in mind.

Real-world submeter performance
The GeoXT handheld is optimized to provide the reliable, high-accuracy location data when and where you need it. With advanced features like EVEREST™ multipath rejection technology, the GeoXT handheld outputs quality GPS positions even under canopy, in urban canyons, and in all the everyday environments you work in.

If you need submeter accuracy in real time, you can use corrections from a satellite-based augmentation system (SBAS) like WAAS or EGNOS, or use the integrated Bluetooth® radio to connect to a Trimble GeoBeacon™ receiver. And if you need that extra edge in precision, you can collect data with Trimble® TerraSync™ software or the GPScorrect™ extension for ESRI ArcPad software, and then postprocess back in the office.

Software to fit your workflow
The GeoXT handheld comes with a powerful 416 MHz processor running the most advanced operating system available—Microsoft® Windows Mobile™ Version 5.0 software for Pocket PC. Windows Mobile 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 Version 5.0 features familiar Microsoft software, including Pocket Word, Pocket Excel, and Pocket Outlook®, giving you all the tools you need for a seamless exchange of data between the field and the office.

Built for the field
The GeoXT 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 GeoXT 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.

Convenient connectivity
With the GeoXT 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 GeoXT handheld you have built-in wireless LAN and Bluetooth® technology to ensure you stay connected.

All the memory you need
There's plenty of storage space in the GeoXT handheld for all your GIS data, and with its fast processor even big graphics files load quickly. Because the GeoXT handheld runs Windows Mobile Version 5.0 software, all your data and applications are stored in persistent memory, so your data is completely safe. And with a Secure Digital (SD) memory card slot, you can add gigabytes of memory for all your map data.

Accuracy you can rely on
Accurate information is crucial to making informed decisions and improving the way you do business. The GeoXT delivers consistent submeter accuracy both real-time and postprocessed, so you know your GIS has the information that others can depend on to do the job right—this time, next time and every time.

&Trimble.

GeoXT handheld

STANDARD FEATURES

System
- Microsoft Windows Mobile Version 5.0 for Pocket PC
- 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
- Submeter accuracy in real-time
- Integrated SBAS[1]
- RTCM real-time correction support
- NMEA and TSIP protocol support
- EVEREST multipath rejection technology

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, Pocket Excel, Pocket Outlook (Inbox, Calendar, Contacts, Notes, Tasks), Pocket Word, Windows® Media Player
- Transcriber (handwriting recognition)
- Microsoft Streets & Trips/AutoRoute™ software

Accessories
- Support module with power supply and USB data cable
- Getting Started Guide
- Getting Started Disc includes Outlook 2002 and ActiveSync 4.0
- 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). . . . . 2.3 Watts
    High (with GPS, backlight, Bluetooth, and Wireless LAN). . . . . 3.2 Watts
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[3], 802.11b Wireless LAN
USB client v1.1 compliant[4] 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 and carrier)
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)[5] after differential correction
Code postprocessed . . . . Submeter
Carrier postprocessed[6]
    With 5 minutes tracking satellites . . . . 30 cm
    With 10 minutes tracking satellites . . . . 20 cm
    With 20 minutes tracking satellites . . . . 10 cm
    With 45 minutes tracking satellites . . . . 1 cm
Real-time (SBAS[1] or external RTCM source) . . . . Submeter

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 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 Distributor.
4 Fully compatible with USB v2.0 computers.
5 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.
6 Accuracy varies with proximity to base station by +5 ppm.

Specifications subject to change without notice.

Bluetooth®

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