



## KEY FEATURES

Real-time submeter GPS with integrated SBAS, and EVEREST multipath rejection technology

Trimble DeltaPhase technology provides 50 cm accuracy after postprocessing

Receiver, antenna, and battery in one compact unit

Bluetooth wireless technology for totally cable-free operation

Rugged and weatherproof for all conditions

User-replaceable battery lasts a full day in the field

Choice of field computer and software to suit your workflow



## FULLY INTEGRATED BLUETOOTH GPS RECEIVER FOR SUBMETER ACCURACY

Purpose-built for GIS data collection, the GPS Pathfinder® ProXT™ receiver sets new standards for ease of use. A precision GPS receiver, antenna, and all-day battery in one, the ProXT receiver is totally cable-free, making data collection more straightforward than ever before. Simple to set up and easy to use, we'll forgive you for taking its sophisticated technology for granted.

### Accuracy you can depend on

The real test of a GPS receiver is the quality of the GPS data it produces. The ProXT receiver passes the test with flying colors, delivering consistent, reliable accuracy in real-time. The receiver's advanced design, and features like EVEREST™ multipath rejection technology let you work under canopy, in urban environments, or wherever accuracy is crucial.

If you need to be sure of your accuracy in the field, the integrated SBAS receiver or optional GeoBeacon™ receiver provides submeter accuracy in real-time.

For the very best results, postprocessing is easy with Trimble® GPS Pathfinder Office software or the GPS Analyst™ extension for ESRI ArcGIS Desktop software. These office processing suites use the new Trimble DeltaPhase™ technology to achieve 50 cm accuracy for GPS code measurements after postprocessing, and even higher levels of postprocessed accuracy are possible when you log GPS carrier data for extended periods.

### Cable-free convenience

Forget lost or tangled cables: with a Bluetooth® wireless connection, you are cable free between the ProXT receiver and your field computer. No more snagging as you get in and out of vehicles or move through difficult terrain. Put it into the convenient belt pouch and you're ready to

go anywhere. You can mount it on your vehicle for data collection on the move, clip it to a range pole when accuracy is critical, or even use it on a backpack. It's quick and easy to mount the ProXT receiver to suit the job at hand.

### All day, every day

The receiver has an integrated battery, good for a full day's work; simply charge the battery overnight and you're ready to go again. The ProXT receiver 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 environment throws at you.

### Options to suit your workflow

You can choose a field computer and software to suit your workflow. The ProXT receiver is ready to use with a variety of field computers, including laptops, Tablet PCs, and PDAs, and of course with Trimble's own rugged field computers: the Trimble Recon® handheld and the Trimble Ranger™ handheld.

Choosing software? Trimble's TerraSync™ software or the GPScorrect™ extension for ESRI ArcPad software provides a complete solution from field to office and back. Choose any off-the-shelf GPS field software, or use the GPS Pathfinder Tools Software Development Kit (SDK) to build an application that's customized to your needs.

### Designed for the GIS professional

The high performance GPS Pathfinder ProXT receiver is purpose built for serious GIS data collection. No cables. No hassles. Just reliable submeter GPS accuracy from a system designed to work where you work.

# GPS Pathfinder ProXT receiver

## STANDARD FEATURES

### GPS

- Integrated GPS/SBAS<sup>1</sup> receiver and antenna
- Submeter accuracy in real-time; 50 cm after postprocessing
- EVEREST multipath rejection technology
- RTCM input
- NMEA and TSIP protocol support

### System

- Integrated GPS receiver, antenna and battery
- Integrated Bluetooth wireless technology
- User replaceable all-day battery
- Wearable GPS receiver with ergonomic belt pouch
- Rugged weatherproof housing

### Software

- GPS Controller software for mission planning and GPS configuration
- Bluetooth deactivation utility

### Accessories

- Power supply with international adapter kit
- Ergonomic belt pouch
- Screwthread adaptor for range pole, backpack, or vehicle mounting
- Null modem cable
- User Guide

## OPTIONAL FEATURES

### Software

- TerraSync software
- Trimble GPScorrect extension for ESRI ArcPad software
- Custom applications built with the GPS Pathfinder Tools Software Development Kit (SDK)
- GPS Pathfinder Office software
- Trimble GPS Analyst extension for ESRI ArcGIS Desktop software

### Field computers

- Field computer powered by the Windows Mobile® version 6 operating system, Windows Mobile version 5.0 software, or Windows Mobile 2003 software for Pocket PCs, such as:
  - Trimble Ranger handheld
  - Trimble Recon handheld
  - Trimble Nomad G Series handheld
- Field computer running Windows® desktop operating system, such as the Trimble Yuma tablet

### Accessories

- GeoBeacon receiver
- 1 foot pole (for backpack mounting)
- Range pole bracket
- External patch antenna
- Hard carry case
- Magnetic vehicle mount
- Backpack
- 2 meter range pole
- Tempest™ antenna
- Baseball cap with patch antenna pocket
- Serial port splitter cable

## TECHNICAL SPECIFICATIONS

### Physical

Integrated GPS receiver, antenna, and battery  
Size . . . . . 10.6 cm x 4.0 cm x 14.6 cm (4.2 in x 1.6 in x 5.75 in)  
Weight . . . . . 0.53 kg (1.16 lb)  
Power  
    Low (GPS only) . . . . . 0.8 Watts  
    Normal (GPS and Bluetooth) . . . . . 1.0 Watt  
Battery . . . . . User replaceable lithium-ion, chargeable in unit  
    13.3 Watt hours

### Environmental

Temperature  
    Operating . . . . . -20 °C to +60 °C (-4 °F to +140 °F)  
    Storage . . . . . -30 °C to +85 °C (-22 °F to +185 °F)  
Humidity . . . . . 99% non-condensing  
Casing . . . . . Wind-driven rain and dust-resistant per IP 54 standard  
Drop . . . . . 1.22 m (4 ft), MIL-STD-810F, Method 516.5, Procedure IV  
Vibration . . . . . Vibration resistant, MIL-STD-810F, Method 514.5, Procedure I  
Shock . . . . . Shock resistant, MIL-STD-810F, Method 516.5, Procedure I

### Input/output

Serial . . . . . Dual port in single DE9  
Bluetooth<sup>2</sup> . . . . . 2 NMEA/TSIP Serial Port (SPP) services  
Interface . . . . . Power button, 3 status LEDs

### GPS

Channels . . . . . 12 (L1 code and carrier)  
Integrated real-time . . . . . SBAS<sup>1</sup>  
Update rate . . . . . 1 Hz  
Time to first fix . . . . . 30 seconds (typical)  
Protocols . . . . . TSIP, NMEA (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)

### Accuracy (HRMS)<sup>3</sup> after differential correction

Code postprocessed . . . . . 50 cm  
Carrier postprocessed<sup>4</sup>  
    With 10 minutes tracking satellites . . . . . 20 cm  
    With 20 minutes tracking satellites . . . . . 10 cm  
    With 45 minutes tracking satellites . . . . . 1 cm  
Real-time (SBAS<sup>1</sup> or external RTCM source) . . . . . Submeter

1 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.

2 Bluetooth type approvals are country specific. The GPS Pathfinder ProXT receiver has Bluetooth approval in the U.S. and EU. For other countries please consult your local Distributor.

3 Horizontal Root Mean Squared accuracy. Except in conditions where most GPS signals are affected by trees, or buildings, or other objects. Accuracy varies with proximity to base station by +1 ppm for code postprocessing and real-time.

4 Postprocessed carrier accuracy varies with proximity to base station by +2 ppm. 45 minute carrier capability applies only to GPS Pathfinder Office software and is limited to 10 km from the base station.

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## KEY FEATURES

Ultra-rugged and lightweight

Integrated wireless connectivity  
(Bluetooth and wireless LAN)

Two CompactFlash expansion slots

Windows Mobile version 6  
operating system

GPS functionality easily added

## ULTRA-RUGGED HANDHELD, WITH FLEXIBLE CONNECTIVITY AND WINDOWS MOBILE VERSION 6 OPERATING SYSTEM

The new-generation Trimble® Recon® handheld is as tough as ever...with an IP67 rating, it's impervious to water and dust. And inside the rugged casing, it's packed with connectivity options. As well as non-volatile memory, and an industry-standard, open operating system, you have built-in Bluetooth® and wireless LAN. With all of this, the Trimble Recon handheld is simply the best-connected, lightweight and ultra-rugged field computer available.

The Trimble Recon handheld features a high-performance 400 MHz processor, an improved screen that's readable in direct sunlight, and a built-in microphone. The system provides two CompactFlash (CF) slots, letting you add GPS cards, barcode scanners and other devices—or add a memory card if you want to take additional data into the field.

### Bluetooth and wireless LAN

Bluetooth lets you connect to mobile peripherals without cables, and wireless LAN gives you access to local area networks, email and the Internet. You can use Bluetooth to connect wirelessly to other devices such as a laser rangefinder, or if you need to navigate or map assets for your GIS, the Trimble Recon handheld connects seamlessly with Trimble's GPS Pathfinder® receivers. You can also use it to connect to a mobile phone to receive real-time corrections from a VRS provider—or to connect to the Internet, especially if you want to download additional data such as maps.

However, if you are within range of a Wi-Fi network, the built-in wireless LAN in your Trimble Recon handheld makes it very easy to send and receive data—as soon as you arrive at a Wi-Fi hotspot, such as your office or work depot, you can quickly and

securely transfer large amounts of data into the network.

### Industry-standard software

The Trimble Recon handheld is powered by the Windows Mobile® version 6 operating system—so you can choose the software that matches your workflow, whether it's off-the-shelf or purpose-built. And because all your data and applications reside in persistent storage, they are secure even in the event of power loss.

### Rugged and reliable

Designed for the realities of mobile GIS field work, the Trimble Recon is a rugged and reliable handheld which connects seamlessly with Trimble GPS receivers. Mobile technology is changing fast, but the Trimble Recon handheld is designed with the future in mind—its open operating system, expandable storage and flexible connectivity deliver all you need, and more, in the most rugged, reliable solution available.



# Trimble Recon handheld

## STANDARD FEATURES

- Windows Mobile version 6 operating system
- 1 x Type I and 1 x Type I/II CompactFlash (CF) slots for memory expansion and the addition of accessories
- Outdoor color display
- Rugged and waterproof design
- Integrated speaker and microphone
- 400 MHz Intel PXA255 XScale processor
- 256 MB non-volatile Flash data storage
- Integrated Bluetooth<sup>1</sup> wireless technology for connectivity to other devices
- Integrated 802.11g wireless LAN for local network connectivity

## Software

- Microsoft<sup>®</sup> ActiveSync<sup>®</sup>, Microsoft Office Mobile (Word Mobile, Excel Mobile, OneNote Mobile, PowerPoint Mobile), Internet Explorer Mobile, File Explorer, Windows Live<sup>®</sup> Messenger, Windows Media Player, Pictures & Videos, Outlook Mobile, Contacts, Calendar, Tasks, Calculator
- Bluetooth<sup>1</sup> File Transfer
- Transcriber (handwriting recognition)

## Accessories

- International AC battery charger (100–240 V)
- Screen protectors (2-pack)
- 2 stylus pens
- Getting Started Guide
- Hand strap
- USB data cable

## OPTIONAL FEATURES

### Software

- TerraSync<sup>™</sup> software
- Trimble GPSCorrect<sup>™</sup> extension for ESRI ArcPad software
- GPS Pathfinder Tools Software Development Kit (SDK)
- GPS Pathfinder Office software
- Trimble GPS Analyst<sup>™</sup> extension for ESRI ArcGIS software

### Accessories

- 12 V vehicle charging cable
- Socket Communications Bluetooth kit
- Optical CF-Cap<sup>™</sup>
- Range pole bracket
- AA PowerBoot<sup>™</sup> module
- Extended CF-Cap
- Pouch
- CompactFlash cards—GPS, GPRS, bar code scanners, camera, wireless LAN, or Bluetooth

## TECHNICAL SPECIFICATIONS

### Physical

Size . . . . . 16.5 cm x 9.5 cm x 4.5 cm (6.5 in x 3.75 in x 1.75 in)  
Weight . . . . . 0.49 kg (17 oz) with battery module  
Processor . . . . . 400 MHz Intel PXA255 XScale CPU  
Memory . . . . . Nonvolatile NAND Flash 256 MB (~31 MB reserved)  
Battery . . . . . Internal 3800 mAh NiMH, rechargeable in unit

### 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 . . . . . IP67, MIL-STD-810F, Method 510.4, Procedures I and II  
Water . . . . . IP67, sealed against accidental immersion (1 m for 30 min)  
MIL-STD-810F, Method 512.4, Procedure I  
Drop . . . . . 1.22 m (4 ft), MIL-STD-810F, Method 516.5, Procedure IV  
26 drops from 1.22 m (4 ft) onto plywood over concrete  
6 additional drops at –30 °C (–22 °F)  
6 additional drops at 60 °C (140 °F)  
Vibration . . . . . Vibration resistant, MIL-STD-810F, Method 514.5  
Altitude . . . . . MIL-STD-810F, Method 500.4, Procedures I, II & III  
15,000 ft at 23 °C (73 °F)

### Input/output

Expansion . . . . . 1 x Type I and 1 x Type I/II CF slot  
CF-Cap seal protects from rain, wind, and dust  
Display . . . . . 240 x 320 pixel (¼ VGA) color TFT with LED front light  
Interface . . . . . TFT touch screen, 10 hardware control keys  
Soft Input Panel (SIP) virtual keyboard and Transcriber software  
Audio system events, warnings, and notifications  
Communications . . . . . Bluetooth<sup>1</sup>, 802.11g wireless LAN  
DE9 (M) RS-232 serial port, USB-slave port

*1 Bluetooth type approvals are country specific. The Trimble Recon handheld has Bluetooth approval in the U.S., Canada, the EU, Australia, and New Zealand. For other countries please consult your local Distributor.*

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