



## KEY FEATURES

Postprocessed differential correction

Seamless integration with your existing system

Compact and lightweight

Simple to use

Open field software support

## AN AFFORDABLE, COMPACT GPS RECEIVER

The Trimble® GPS Pathfinder® XC receiver is a CompactFlash card-based GPS receiver that provides postprocessed accuracy of 2 to 5 meters, at a price that enables you to equip your entire workforce.

### Fits with your existing system

Just slot the card into your field computer and you're ready to start adding GPS positions to the data you collect. You can use the card with any handheld field computer that has a CompactFlash card slot, including Trimble's own rugged field computers—the Trimble Recon® handheld and the Trimble Ranger™ handheld.

Because it fits into your existing field computer, you've got a very convenient all-in-one solution. You don't even need to remember to charge two batteries, as the GPS Pathfinder XC receiver is powered from your field computer.

### Affordable and productive

The GPS Pathfinder XC receiver is ideal for utility companies, government organizations, and natural resource agencies that are managing large deployments and tight budgets. Forestry workers in particular will love the receiver's productivity under canopy. The GPS Pathfinder XC receiver has been specifically designed to provide positions in hostile environments, such as under forest canopy and up against buildings.

### Postprocessed accuracy

If you need better accuracy than you can achieve autonomously, the GPS Pathfinder XC receiver is ideal, since unlike most other CompactFlash GPS cards, it allows you to postprocess your data. You can postprocess your data with Trimble's GPS Pathfinder Office software or the Trimble GPS Analyst™ extension for ESRI ArcGIS software.

Postprocessing is the best way to ensure positions are defined to the required accuracy level for your GIS, and to control the overall quality and consistency of your data.

### Open field software support

The GPS Pathfinder XC receiver is fully supported by Trimble's field and office software solutions. It works perfectly with Trimble's TerraSync™ software or the Trimble GPScorrect™ extension for ESRI ArcPad software. You can also 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.

### Part of the Trimble family

The GPS Pathfinder XC receiver can be integrated into field computers which have a CompactFlash card slot, to provide a cost-effective and highly productive GPS solution. The GPS positions from the receiver can be postprocessed for higher accuracy, ensuring you have accurate and reliable data for your GIS. And because it's part of the Trimble family, you can be confident you have the quality and reliability that Trimble is known for.



# GPS Pathfinder XC receiver

## STANDARD FEATURES

### GPS

- Integrated GPS receiver and antenna
- 2–5 meter accuracy after differential correction (postprocessed)<sup>1</sup>
- NMEA and SiRF protocol support

### System

- Type I CompactFlash card interface

### Software

- GPS Controller software for mission planning and GPS configuration

### Accessories

- Getting Started 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 software

### Field computers

- Field computer that supports Type I or II CompactFlash cards
- Field computer running Microsoft® Windows Mobile® version 5.0 software or Windows Mobile 2003 software for Pocket PCs, such as:
  - Trimble Recon handheld
  - Trimble Ranger handheld
- Field computer running Microsoft Windows® CE .NET

## TECHNICAL SPECIFICATIONS

### Physical

Integrated GPS receiver and antenna

Size . . . . . 9.3 cm x 4.2 cm x 1.1 cm (3.7 in x 1.7 in x 0.4 in)  
Weight . . . . . 34 g (1.2 oz)  
Power . . . . . <80 mA at 3.3V +/- 10% input  
Power source . . . . . Field computer

### Environmental

#### Temperature

Operating . . . . . –10 °C to +50 °C (+14 °F to +122 °F)  
Storage . . . . . –20 °C to +60 °C (–4 °F to +140 °F)

Humidity . . . . . 5% to 95%, non-condensing

### Input/output

Communications . . . . . Type I CompactFlash card  
Interface . . . . . Status LED

### GPS

Channels . . . . . 12 (L1 code only)  
Update rate . . . . . 1 Hz  
Time to first fix . . . . . 40 seconds (typical)  
Protocols . . . . . SiRF

NMEA v2.20

GGA, GSA, and RMC at 1 second, GSV at 5 second

NMEA output at 4800 bps, 8, 1, None

### Accuracy (HRMS)<sup>2</sup> after differential correction

Code postprocessed . . . . . 2–5 m

<sup>1</sup> The GPS Pathfinder XC receiver is not specified to provide real-time SBAS (WAAS/EGNOS) differential correction. The GPS Pathfinder XB receiver is recommended for applications requiring SBAS support.

<sup>2</sup> Horizontal Root Mean Squared accuracy. Requires data to be collected using horizontal mounting, minimum of 4 satellites, PDOP mask at 99, SNR mask at 12 dBHz, elevation mask at 5 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.

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