

KEY FEATURES

Compact and lightweight

Real time (SBAS) or postprocessed differential correction

Bluetooth cable-free connectivity

All day battery

Open field software support



AN AFFORDABLE, HIGHLY PRODUCTIVE GPS RECEIVER

The Trimble® GPS Pathfinder® XB receiver is a highly productive but affordable GPS receiver for field data collection and mobile GIS. Cable-free and wearable, the GPS Pathfinder XB receiver provides 2 to 5 meter positioning, real-time or postprocessed.

Easy to deploy and more productive

Ideal for organizations that need to equip their entire mobile workforce, the GPS Pathfinder XB receiver is compact and very easy to use.

If you need 2 to 5 meter accuracy in the field, you can use the integrated SBAS (WAAS/EGNOS) receiver for real-time corrections. Or you can collect data in the field and postprocess it back in the office, with Trimble's GPS Pathfinder Office software or the Trimble GPS Analyst™ extension for ESRI ArcGIS software.

Applications

In applications such as natural resources and mobile enterprise, where accuracy is less important, and high productivity is essential, the GPS Pathfinder XB receiver is ideal. The receiver has been specifically designed to provide positions in hostile environments, such as under forest canopy and up against buildings.

Cable-free convenience

Bluetooth® wireless technology provides a cable-free connection between the receiver and your field computer—no more snagging cables when moving through difficult terrain or getting in and out of a vehicle. The receiver itself is compact and lightweight, and can be mounted to suit the way you work. It has an integrated battery, good for a full day's work; simply charge the battery overnight and you're ready to go again.

Open field software support

The GPS Pathfinder XB 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.

It is ideal for those who want the flexibility of a separate field computer and receiver, and the convenience of a wireless connection. You can use laptops, Tablet PCs, and PDAs, and of course, Trimble's own rugged field computers: the Trimble Recon® handheld and the Trimble Ranger™ handheld.

Part of the Trimble family

Best of all, you have the guarantee that your GPS receiver is fully compatible with Trimble's range of field and office software, for a seamless workflow and the improved accuracy of postprocessing. The GPS Pathfinder XB receiver is interchangeable with Trimble's submeter and subfoot receivers, so your field workforce can select the best tool for each job, without any need to change field software or workflows.

The GPS Pathfinder XB receiver is the latest addition to the Trimble family of GPS receivers, so you can be confident you're investing in a solution that is fully supported by Trimble, and won't let you down.

GPS Pathfinder XB receiver

STANDARD FEATURES

GPS

- Integrated GPS/SBAS¹ receiver and antenna
- 2–5 meter accuracy after differential correction (real-time or postprocessed)
- NMEA and SiRF protocol support

System

- Integrated GPS receiver, antenna, and battery
- Integrated Bluetooth² wireless technology
- User replaceable all-day battery
- Wearable GPS receiver

Software

- GPS Controller software for mission planning and GPS configuration

Accessories

- Power supply with international adapter kit
- Vehicle power adapter
- 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 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® desktop operating system

Accessories

- Screwthread adaptor for range pole or backpack mounting
- Backpack
- 1 foot pole (for backpack mounting)

TECHNICAL SPECIFICATIONS

Physical

Integrated GPS receiver, antenna, and battery
Size 8.8 cm x 4.9 cm x 2.0 cm (3.5 in x 1.9 in x 0.8 in)
Weight 80 g (2.8 oz)
Power 0.4 Watt
Battery User replaceable lithium-ion, chargeable in unit
4.0 Watt hours

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

Bluetooth². 1 NMEA/SiRF Serial Port (SPP) service
Interface Power button, 3 status LEDs

GPS

Channels 12 (L1 code only)
Integrated real-time SBAS¹
Update rate 1 Hz
Time to first fix 40 seconds (typical)
Protocols SiRF
NMEA-0183 v2.20 (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)

Accuracy (HRMS)³ after differential correction

Code postprocessed 2–5 m
Real-time (SBAS¹) 2–5 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 Bluetooth type approvals are country specific. The GPS Pathfinder XB receiver has Bluetooth approval in the U.S., Canada, Japan, Australia, and New Zealand. For other countries please consult your local Distributor.

3 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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