



### 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<sup>®</sup> 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<sup>®</sup> 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<sup>™</sup> 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

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

Specifications subject to change without notice.

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