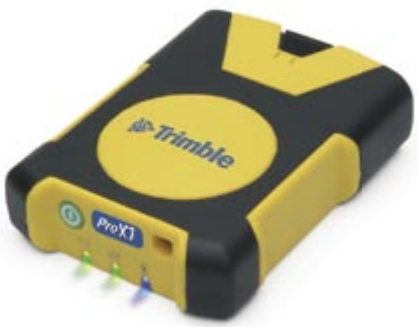
DATASHEET

GPS Pathfinder ProXT receiver

KEY FEATURES

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

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. Snap it onto the convenient belt clip 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 GIS TSCe™ field device.

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.

Trimble

GPS Pathfinder ProXT receiver

STANDARD FEATURES

GPS

- Integrated GPS/SBAS[1] receiver and antenna
- Submeter accuracy in real-time
- 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 clip
- Rugged waterproof housing

Software

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

Accessories

- Power supply with international adapter kit
- Ergonomic belt clip
- 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 software

Field computers

- Field computer running Microsoft® Windows® CE operating system or Microsoft Windows Mobile™ 2003 software for Pocket PCs, such as:
  - GIS TSCe field device
  - Trimble Recon handheld
- Field computer running Microsoft Windows desktop operating system

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
- Hurricane antenna kit
- Baseball cap with patch antenna pocket
- Serial port splitter cable

TECHNICAL SPECIFICATIONS

Physical

Integrated GPS receiver, antenna, and battery

Size . . . . . 10.6 cm × 4.0 cm × 14.6 cm (4.2 in × 1.6 in × 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 12.6 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 . . . . . 100% fully sealed
Sand and dust. . . IP67, MIL-STD-810F, Method 510.4, Procedures I and II
Water . . . . . IP67, MIL-STD-810F, Method 512.4, Procedure I
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[2] . . . . . 2 NMEA/TSIP Serial Port (SPP) services
Interface . . . . . Power button, 3 status LEDs

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)[3] after differential correction

Code postprocessed . . . . . Submeter
Carrier postprocessed[4]
  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 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. 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.
4 Accuracy varies with proximity to base station by +5 ppm.

Specifications subject to change without notice.

Bluetooth®

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