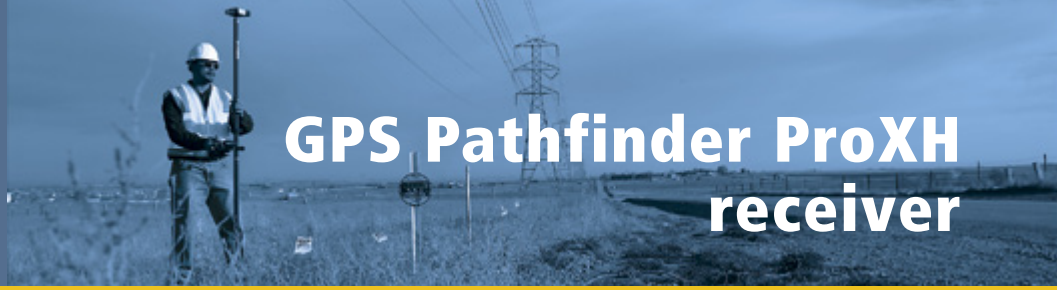
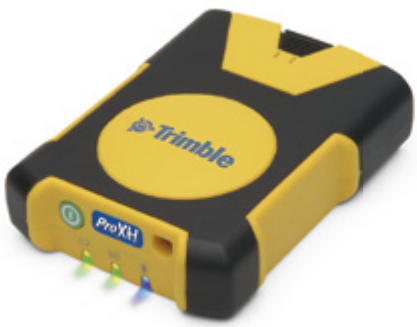
DATASHEET



GPS Pathfinder ProXH receiver

KEY FEATURES

- H-Star technology for subfoot postprocessed accuracy
- Optional Tornado antenna for decimeter postprocessed accuracy
- Receiver, antenna and battery in one compact unit
- Bluetooth wireless technology for convenient cable-free operation
- Rugged and weatherproof for all conditions
- User-replaceable battery that lasts a full day in the field
- Choice of field device and field software to suit your workflow



FULLY INTEGRATED BLUETOOTH GPS RECEIVER WITH H-STAR TECHNOLOGY FOR SUBFOOT ACCURACY

The GPS Pathfinder® ProXH™ receiver introduces a new era in GPS for GIS data collection. A GPS receiver, antenna, and all-day battery in one, the ProXH receiver delivers subfoot (<30 cm) accuracy with Trimble's revolutionary H-Star™ technology. Don't be fooled by its rugged good looks—the ProXH receiver is quite simply the most sophisticated high performance GPS receiver on the market.

H-Star technology for high accuracy
Bringing together advanced GPS receiver design and a powerful new postprocessing engine, H-Star technology is in a class of its own. There's no need to initialize—in the time taken to record your attribute information, the ProXH receiver logs the data you need to achieve subfoot accuracy. And you can collect data with confidence that you will achieve subfoot accuracy with greater consistency at longer baselines, in tougher environments, and with shorter occupations. Trimble field software displays the accuracy you can expect after postprocessing, while you're in the field.

Back in the office, the GPS Pathfinder Office software, or the Trimble® GPS Analyst™ extension for ESRI ArcGIS Desktop software, guides you through the H-Star correction process and shows you the accuracy you've achieved.

Need to get the very best accuracy? Add a Tornado™ antenna to your ProXH receiver to get decimeter (10 cm / 4 inch) postprocessed accuracy. With H-Star technology the ProXH is more than just a GPS receiver, it's a total system for high accuracy GIS data collection.

Cable-free convenience
The all-in-one design of the ProXH receiver means it's simple to set up and easy to use. Forget lost or tangled cables: with a Bluetooth® wireless connection you're cable free between the ProXH receiver and your field computer. Nothing to snag or break as you move through difficult terrain.

The flexible mounting system makes it quick and easy to fit the ProXH receiver for the job at hand. It all adds up to a powerful GPS system that maximizes your productivity and makes your fieldwork surprisingly simple.

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 ProXH 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 ProXH receiver is ready to use with a variety of field computers, including laptops, Tablet PCs and PDAs, and of course Trimble's own rugged field computers: the Trimble Recon® handheld and 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.

Productivity and precision
When accuracy is critical for your GIS, the ProXH receiver delivers reliable subfoot performance. Field workers will love the convenience of its compact, cable-free design—and the ability to collect high accuracy data quickly and efficiently. With the GPS Pathfinder ProXH receiver, you don't have to choose between productivity and precision—you can have it all!

Trimble

GPS Pathfinder ProXH receiver

STANDARD FEATURES

GPS

- Integrated GPS/SBAS[1] receiver and antenna
- H-Star technology for subfoot (<30 cm) postprocessed accuracy
- Decimeter (10 cm / 4 inch) postprocessed accuracy with the optional external Tornado 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 weatherproof 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 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
- Field computer running Windows® desktop operating system

Accessories

- Tornado antenna
- 1 foot pole (for backpack mounting)
- 2 meter range pole
- Hard carry case
- Serial port splitter cable
- GeoBeacon™ receiver
- Backpack
- Range pole bracket
- Magnetic vehicle mount

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
- High (optional Tornado antenna, GPS, and Bluetooth) . . . . . 1.6 Watts

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[2] . . . . . 2 NMEA/TSIP Serial Port (SPP) services

Interface . . . . . Power button, 3 status LEDs

GPS

Channels . . . . . 12 (L1 code and carrier/L2 carrier)[3]

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)[4] after differential correction

H-Star postprocessed[5]

- With internal antenna . . . . . 30 cm
- With optional Tornado antenna . . . . . 10 cm[7]
- Code postprocessed . . . . . 50 cm

Carrier postprocessed[6]

- 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 ProXH receiver has Bluetooth approval in the U.S. and EU. For other countries please consult your local Distributor.

3 L2 capability requires purchase of the optional Tornado antenna.

4 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.

5 Requires H-Star data to be collected for up to 2 minutes. Requires a minimum of three good quality dual frequency reference stations within 200 km, or one good quality dual frequency reference station within 80 km. With one reference station accuracy degrades at +1 ppm beyond 80 km.

6 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.

7 The following factors increase the availability of 10 cm accuracy after H-Star postprocessing: longer elapsed time tracking uninterrupted L1/L2 carrier phase data, tracking of more satellites with L2 measurements, shorter distance to the base station(s), and use of more (than one) base stations for postprocessing.

Specifications subject to change without notice.

Bluetooth®

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