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!
STANDARD FEATURES

GPS
• Integrated GPS/SBAS1 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 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
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, Procedure IV
Vibration .............................................................. Shock resistant, MIL-STD-810F, Method 516.5, Procedure I
Shock ............................................................... 30 seconds (typical)

Input/output
Serial ................................. Dual port in single DE9
  • 2 NMEA/TSIP Serial Port (SPP) services
  • Interface Service
  • Power button, 3 status LEDs
Bluetooth1 ................................................. 2

GPS
Channels ........................................................... 12 (L1 code and carrier/L2 carrier)3
Integrated real-time .............................................. SBAS1
Update rate ......................................................... 1 Hz

Carrier postprocessed2
With 20 minutes tracking satellites .......................... 10 cm
With 45 minutes tracking satellites ............................ 1 cm

Real-time (SBAS3 or external RTCM source) ................ Submeter

 Accuracy (HRMS)3 after differential correction
H-Star postprocessed2
With internal antenna ............................................. 30 cm
With optional Tornado antenna ................................. 10 cm

Code postprocessed ............................................. 50 cm

1 SBAS (Satellite Based Augmentation System), include 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 Square 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 1 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.

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The Trimble® Recon® handheld is as tough as ever... with an IP67 rating, it’s impervious to water and dust. And inside the rugged casing, it’s packed with connectivity options.

As well as non-volatile memory, and an industry-standard, open operating system, you have built-in Bluetooth® and wireless LAN. With all of this, the Trimble Recon handheld is simply the best-connected, lightweight and ultra-rugged field computer available.

The Trimble Recon handheld features a high-performance 400 MHz processor, an improved screen that’s readable in direct sunlight, and a built-in microphone. The system provides two CompactFlash (CF) slots, letting you add GNSS cards, barcode scanners and other devices—or add a memory card if you want to take additional data into the field.

**Connectivity options**

Bluetooth wireless technology allows you to connect to mobile peripherals without cables, and wireless LAN gives you access to local area networks, email and the Internet. You can use Bluetooth to connect wirelessly to other devices such as a laser rangefinder, or if you need to navigate or map assets for your GIS, the Trimble Recon handheld connects seamlessly with Trimble GPS Pathfinder® receivers.

If you are within range of a Wi-Fi network, the built-in wireless LAN in your Trimble Recon handheld makes it very easy to send and receive data—as soon as you arrive at a Wi-Fi hotspot, such as your office or work depot, you can quickly and securely transfer large amounts of data into the network.

**Industry-standard software**

The Trimble Recon handheld is powered by the Windows Mobile® version 6 operating system—so you can choose the software that matches your workflow, whether it’s off-the-shelf or purpose-built. And because all your data and applications reside in persistent storage, they are secure even in the event of power loss.

**Rugged and reliable**

Designed for the realities of mobile GIS field work, the Trimble Recon is a rugged and reliable handheld which connects seamlessly with Trimble GNSS receivers. Mobile technology is changing fast, but the Trimble Recon handheld is designed with the future in mind—its open operating system, expandable storage and flexible connectivity deliver all you need, and more, in the most rugged, reliable solution available.
TECHNICAL SPECIFICATIONS

**Physical**
- Size: 16.5 cm × 9.5 cm × 4.5 cm (6.5 in × 3.75 in × 1.75 in)
- Weight: 0.49 kg (17 oz) with battery module
- Processor: 400 MHz Intel PXA255 XScale CPU
- Memory: Nonvolatile NAND Flash: 256 MB (~31 MB reserved)
- Battery: Internal 3800 mAh NiMH, rechargeable in unit

**Environmental**
- Operating temperature: –30 °C to +60 °C (-22 °F to +140 °F)
- Storage temperature: –40 °C to +70 °C (-40 °F to +158 °F)
- Humidity: MIL-STD-810F, Method 507.4

**Input/output**
- Expansion: 1 x Type I and 1 x Type I/II CF slot
- CF-Cap seal protects from rain, wind, and dust
- Display: 240 × 320 pixel (¼ VGA) color TFT with LED front light
- Interface: 1.22 m (4 ft), MIL-STD-810F, Method 516.5; Procedure IV
- 26 drops from 1.22 m (4 ft) onto plywood over concrete
- 6 additional drops at -30 °C (-22 °F)
- 6 additional drops at 60 °C (140 °F)

Specifications subject to change without notice.

**Options**

**Software**
- Trimble TerraSync™ software
- Trimble GPS Correct™ extension for Esri for ArcPad software
- Trimble GPS Pathfinder Field Tool Kit
- Trimble GPS Pathfinder Office software
- Trimble GPS Analyst™ extension for Esri ArcGIS for Desktop software

**Accessories**
- 12 V vehicle charging cable
- DE9 (M) RS-232 serial port, USB-slave port
- CompactFlash cards—GNSS, GPRS, bar code scanners, camera, wireless LAN, or Bluetooth

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