

KEY FEATURES

Provides full GPS receiver status, setup, and management

Provides full control over real-time differential sources

For best accuracy allows logging of data for differential postprocessing

H-Star data collection for high accuracy with the GPS Pathfinder ProXRT and ProXH receivers, or the GeoXH handheld

Works seamlessly with Trimble GPS receivers and field computers

Provides standard COM components

SOFTWARE DEVELOPMENT KIT FOR SEAMLESS GPS INTEGRATION

Built to work with a range of reliable, accurate Trimble® GPS receivers, the GPS Pathfinder® Tools Software Development Kit (SDK) gives developers the best of both worlds: leading edge GPS technology with the flexibility to develop your own custom field software applications.

Full GPS receiver control inside your application

Get the power of full GPS receiver setup, status and control inside your software application with the GPS Pathfinder Tools SDK. Whether you're building a new field software application, or need to add GPS capabilities to an existing one, the GPS Pathfinder Tools SDK provides standard components that allow you to quickly and effectively deploy your application in the field.

Ensure you get the best accuracy GPS

If your workers need to navigate in the field, or find their way back to previously recorded features, the GPS Pathfinder Tools SDK gives you full control over real-time differential sources. And, if you want to be sure of getting the best quality data, with GPS Pathfinder Tools SDK in your application you can record GPS information for postprocessing with Trimble's GPS Pathfinder Office software or the Trimble GPS Analyst™ extension for ESRI ArcGIS Desktop software. Using Trimble's established H-Star™ technology you can achieve up to decimeter (10 cm / 4 inch) accuracy (dependent on H-Star-capable receiver and antenna combination, and correction source used). Alternatively with a GeoXT™ or Juno™ series handheld, or a ProXT™ receiver, you can achieve optimal GPS code processing accuracy with the new Trimble DeltaPhase™ technology.

Built by programmers, for programmers

The GPS Pathfinder Tools SDK consists of a set of COM components that can be integrated with industry-standard 32-bit visual programming tools. Trimble even makes it easy for you to build and test applications while indoors, using the GPS simulation mode. And developers are fully supported through online help, sample programs, and developer email support.

Compatible with the best of Trimble hardware

The GPS Pathfinder Tools SDK is built to work seamlessly with Trimble's Mapping & GIS range of rugged field computers, stand-alone GPS receivers, and field computers with integrated GPS.

The GPS Pathfinder Tools SDK is your key to developing powerful custom solutions—ensuring quality data for all your mobile GIS requirements.

GPS Pathfinder Tools Software Development Kit

STANDARD FEATURES

Key features

- Works seamlessly with Trimble's Mapping & GIS range of rugged field computers, stand-alone GPS receivers, and field computers with integrated GPS
- Supports standard Windows® operating systems, including Windows Mobile® software
- Supports industry-standard programming environments such as Microsoft® Visual Studio® 2008 development system
- Provides simple GPS and real-time setup and status
- Allows collection of GPS data that can be postprocessed for best accuracy
- Use differential correction to improve GPS position accuracy (corrected accuracy depends on the GPS receiver and base station used)
- Supports logging of DeltaPhase data for optimal code accuracy after postprocessing
- Provides quick projection and transformation of GPS positions to the desired coordinate system

System components

- GPS Receiver component—handles all GPS data communications between the receiver and the application
- Coordinate Transformer component—provides easy and accurate coordinate conversion, including support for custom coordinate systems
- Converter component—simplifies the conversion and formatting of angle, distance, velocity, and time units
- SSF Writer component—provides the ability to save GPS data for postprocessing

Support

- Sample applications for all supported platforms provided
- One year of developer support provided by Trimble software engineers
- Response to specific development questions via email

Accessories

- GPS Pathfinder Tools SDK Getting Started Guide available online
- Developer support via email purchased annually for subsequent years

Supported GPS receivers

- GPS Pathfinder ProXRT receiver
- GPS Pathfinder ProXH™ receiver
- GPS Pathfinder ProXT receiver
- GPS Pathfinder XC receiver

Supported field computers

- Trimble Ranger™ handheld
- Trimble Recon® handheld

Supported field computers with integrated GPS

- GeoXH™ handheld
- GeoXT handheld
- GeoXM™ handheld
- Juno SB handheld
- Juno SC handheld
- Trimble Nomad® G series
- Trimble Recon GPS XC edition
- Trimble Yuma™ rugged tablet computer

RECOMMENDED HARDWARE

Developer computer

Operating system Windows XP, Windows Vista®, or Windows 7
Memory 32 MB RAM
Hard drive 500 MB

Windows field computer

Operating system Windows XP, Windows Vista, or Windows 7
Memory 32 MB RAM
Hard drive 500 MB

Windows Mobile field computer

Operating system Windows Mobile 2003 for Pocket PC,
Windows Mobile version 5.0 software,
or Windows Mobile version 6
Processor type ARM

OPTIONAL FEATURES

GPS postprocessing options

- GPS Pathfinder Office software
- Trimble GPS Analyst extension for ESRI ArcGIS Desktop software

Specifications subject to change without notice.

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