

Trimble GPS Pathfinder ProXRT



Trimble (CA, USA) has introduced the GPS Pathfinder ProXRT receiver, a flexible GNSS receiver for GIS data collection and mapping. The receiver combines a high-performance GPS receiver with Trimble H-Star technology, OmniSTAR correction capability, and optional GLONASS capability to provide various levels of positioning accuracies, from submetre to decimetre (10cm) accuracy.

The ProXRT receiver is ideal for high-accuracy mapping, data collection, and asset management applications in industries such as water/wastewater, utilities, telecommunications, transportation as well as many others. In recent years, these industries have experienced the need for subfoot and decimeter level performance.

With Trimble's patented H-Star technology, GPS Pathfinder ProXRT receiver users can relocate assets in real time so they can verify their data before they even leave the job site. Users can connect to a real time correction source and collect decimetre positions in the field by using wireless communications link and a local Trimble VRS network or they can set up a base station for additional flexibility.

If a VRS network or a local base station is not available in the area, users can also achieve real-time decimetre accuracy with OmniSTAR HP corrections. The OmniSTAR antenna is integrated in the ProXRT receiver so there's no need to carry extra equipment—all a user needs to do is purchase a subscription from an OmniSTAR reseller for over the air corrections. The GPS Pathfinder ProXRT receiver is also capable of receiving OmniSTAR XP (for subfoot accuracy) and OmniSTAR VBS (for submeter accuracy).

Optional GLONASS support is also available. GLONASS increases the number of satellites that can be observed when working in real time. The GLONASS option provides users with the capability to maintain lock on enough satellites when sky visibility becomes limited, allowing them to continually work in urban canyons or high foliage environments. Tracking both GLONASS and GPS satellites can also improve productivity by reducing the time required to achieve real-time decimetre or subfoot accuracy.

The GPS Pathfinder ProXRT is a rugged receiver designed for tough field conditions and it can operate even in extreme temperatures. The integrated lithium ion battery is designed for all day use. Setup options for the ProXRT receiver include a backpack, range pole, or vehicle mounted.

With Bluetooth technology, the GPS Pathfinder ProXRT receiver allows for cable-free communications to a field computer. The receiver can be connected to a variety of field computers, including the rugged Trimble Nomad series, Trimble Recon handheld, or the Trimble Ranger handheld as well as laptops, tablet PCs, and PDAs.

The Trimble TerraSync software or Trimble GPSCorrect extension for ESRI ArcPad software provides a complete solution from the field to office and back. Mapping professionals can also use GPS Pathfinder Tools Software Development Kit (SDK) to build their own customized application to fit their unique needs.

The GPS Pathfinder ProXRT receiver is expected to begin shipping in March 2008 from Trimble's worldwide Mapping and GIS dealers and business partners.