

continuous • accurate • affordable

## Trusted Portable Navigator (T-PN)

GNSS is largely unavailable or inaccurate when used indoors or in urban environments.

**Trusted Positioning Inc.** offers a software solution that uses existing hardware in mobile devices to provide continuous and accurate location and navigation in any environment.

This **Trusted Portable Navigator (T-PN)** software turns low-cost MEMS inertial sensor signals from the device into seamless navigators that work with any wireless signal update such as GPS and Wi-Fi.



### Applications

The **T-PN** is a reliable location and navigation solution that can be used for a variety of applications including:

- Mobile device location indoors and in urban environments
- Mobile device and user orientation
- Dismounted soldier and first responder tracking
- Patient monitoring
- Offender tracking

### Advantages

The **T-PN** provides the following advantages:

- Provides navigation information in any environment
- The mobile device can be used in any orientation with respect to the platform of motion (i.e. person or vehicle)
- Provides both mobile device and platform orientation
- Seamless transitions between different modes of transportation, such as between walking and driving
- Differentiates between types of movement such as walking, driving, and stopped
- Ability to flag movement abnormalities such as falling, prolonged stillness, and fidgeting



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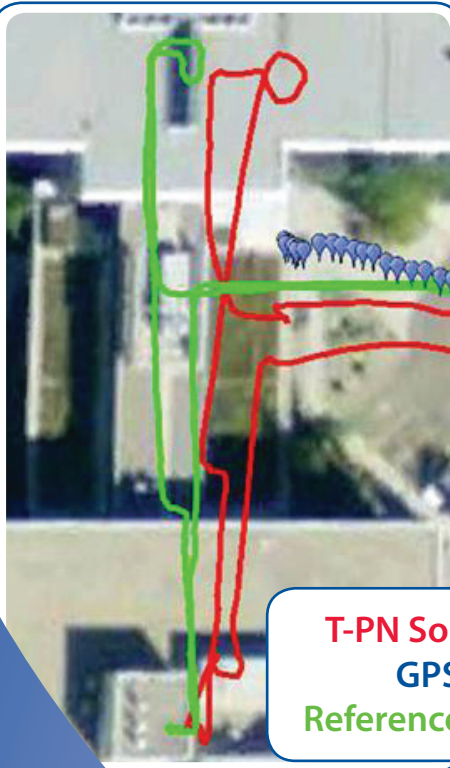
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## T-PN Packages

	Basic	Plus	Premium
		<b>S</b>	<b>SM</b>
GNSS	X	X	X
Accelerometers	X	X	X
Gyroscopes	X	X	X
Magnetometers			X
Barometer			X
Wireless Speed Readings		X	X
WiFi Positioning		X	X
Constraint-free Orientation			X
Walking/Driving (Motion Classifier)		X	X

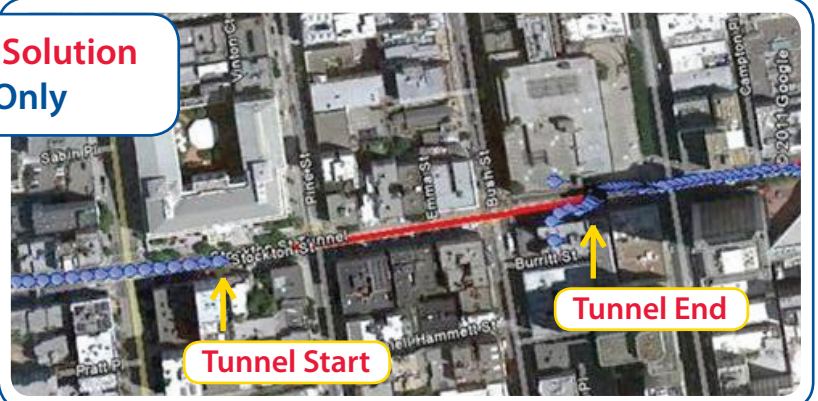
Other products: WiFi radiomap builder  
Customization is available

## T-PN Solution

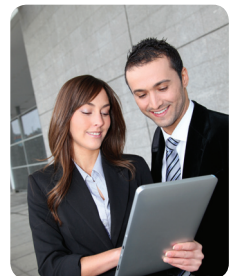


**T-PN Solution**  
GPS Only  
Reference Path

**T-PN Solution**  
GPS Only



*Integrated*  
software fusion  
made possible by  
using *existing*  
sensors and hardware



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