



Dismounted Soldier Tracking Module Evaluation Kit

Precision location and position tracking



PNI's Dismounted Soldier Tracking (DST) module accurately monitors a soldier's location even when GPS is compromised or denied.

DST is an inertial tracking module that provides precise step-by-step tracking for soldiers, both indoors and outdoors. DST provides precise position in any location.

PNI Sensor has tapped more than three decades of experience in military-grade location tracking for robots, humans in combat situations, and unmanned vehicles to develop DST.

DST technology is customizable to mission specifications, made in the U.S.A. and ITAR-free.

Features & Benefits

- DST provides tracking to 1% accuracy over distance traveled over 1/2 hour with no GPS.
- Unmatched direction of motion - DST direction of motion tracking algorithm is a dead reckoning algorithm that tracks a soldier independent of the soldier's body pose or dynamic movement in any direction (forward, backward, sideways).
- Self-contained - No additional infrastructure required and optimized for low size, weight, power, and cost (SWaP-C).
- Integrates with GPS for path alignment and step scaling and tracks a soldier's position even when GPS is not available.



Prototype Specifications*

Communication	<ul style="list-style-type: none">• Bluetooth Low Energy (BLE) to iOS or Android device• Supports Android Team Awareness Kit (ATAK)
Accuracy	1% accuracy over distance traveled over 1/2 hour with no GPS
Integrated Sensors	Magnetometer, accelerometer, gyroscope, temperature
Battery	Rechargeable; 4 hours continuous operation
Dimensions (Exterior Housing)	Width: 33 mm Depth: 14 mm Length: 50 mm
Weight	33.3 g
Installation Position	Body worn
Evaluation Kit (p/n 90110)	<ul style="list-style-type: none">• Dismounted Soldier Tracking module• Wireless charging unit• DOM DST smartphone application

With over 30 years of experience, PNI is the world's foremost expert in precision location, motion tracking, and fusion of sensor systems into real-world applications.

PNI's sensors and algorithms serve as the cornerstone of successful IoT projects and other mission-critical applications where pinpoint location, accuracy, and low power consumption are essential.

Building on decades of patented sensor and algorithm development, PNI offers the industry's highest-performance geomagnetic sensor in its class, location and motion coprocessors, high-performance modules, sensor fusion algorithms, and complete sensor systems.

To learn more, please visit www.pnicorp.com.



Interior Components



Exterior Housing

Images not to scale.

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*Specifications are subject to change.
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