The PDSU is a real-time network-centric positioning system for precise tracking of dynamic platforms such as dismounted troops and manned or unmanned vehicles.

The PDSU offers a TENA compliant, Mil-Spec ruggedized solution that is fully self contained including an internal wireless TDMA radio, data recorder and rechargeable batteries.

The PDSU has been proven in harsh military environments where upwards of 1000 PDSUs have been used to track troop movements in Infantry Brigade Combat Team exercises.

**PDSU Features**

- Interfaces with the MILES training system
- Small footprint - 25 cubic inches
- Light weight - 1 lb 8 oz including internal batteries
- Powered by internal and/or external batteries
- On-board data recording
- Two RS-232 ports and one Ethernet port
- On-board end-user application support
- Internal TDMA data link available in a wide range of frequencies
- AES encryption available
- Sub-meter horizontal accuracy (CEP) available
- High-sensitivity for operations in urban and foliage terrain
- Test and Training Enabling Architecture (TENA) enabled
- Mil-Spec ruggedization
Technical Specifications

Applications
+ Precise tracking of dynamic platforms including dismounted soldiers, and manned and unmanned vehicles

Size, Weight and Construction
+ 25 cubic inches
+ 1 lb 8 oz
+ No sharp edges for troop safety
+ MIL-810E environmental qualified
+ MIL-461 EMI and RFI

Communications
+ Internal wireless TDMA radio (available in a wide range of frequencies)
+ AES encryption available

GPS
+ Tracking L1, CA Code
+ Tracking -159 dBm — high-sensitivity mode

Power
+ Internal Lithium-Polymer rechargeable cells. Battery endurance up to 24 hours
+ External power capability 10-30 volts DC

Interfaces
+ External power connector
+ SMA GPS antenna connector
+ SMA RF connector for internal data link
+ 1 Ethernet data port
+ 2 RS232 serial ports
+ Programmable bi-directional discrete I/Os
+ 1PPS output
+ 4 status LEDs

Safety and Diagnostics
+ Internal Safety and monitoring systems
+ Internal BIT with operator notification

Data Output
+ Solutions in compact RYO binary protocol
+ Test and Training Enabling Architecture (TENA) enabled

End User Application Support
+ API access on-board for user written application access to positioning solutions

Data Logging
+ Position solutions, raw GPS data (for post processing), and diagnostic logging