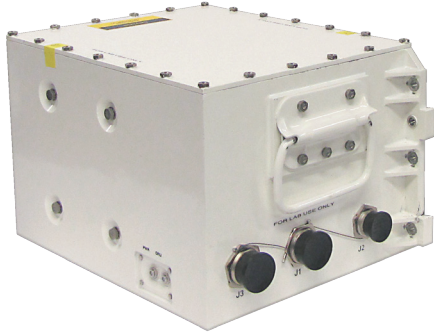




DATASHEET | JANUARY 2024

A New Era in Navigation



Applications

- Currently used on Paladin (M109A6 and M109A7), Firefinder (AN/TPQ-36 and AN/TPQ-37) and Long-Range Air Surveillance Radar (AN/TPS-59)
- Pointing and Position Information for Soldiers
- Direct and Indirect Fires, Counter-fire and Air-Surveillance Radar Operations
- Manned, Unmanned, Rotational Platforms, Wheeled and Tracked Vehicles, Extreme Gunfire Shock, Battlefield and Shipboard Environments

Key Performance Features

- High-Performance RL34 Ring Laser Gyros
- Common Architecture and Components (MLRS, HIMARS, IPADS)
- GPS-aided Using Customer-provided Defense Advanced GPS Receiver (DAGR) or Optional Embedded SAASM
- Impervious to Jamming (inertial mode)
- Resistant to Jamming (GPS-aided mode)
- Combat-Proven Heritage; Fully Qualified/ U.S. Government Tested
- Embedded Built-In Test (BIT)
- High-Reliability MTBF, Low Mean Time to Repair (MTTR)

High-Precision Pointing and Location System

EMCORE's Dynamic Reference Unit Hybrid Replacement (DRU-H-R) continues its record of excellence in providing precision pointing and location to our warfighters. Partnered with the U.S. Army, EMCORE's combat-proven precision product family delivers mission-critical information such as survey, pointing and position to our soldiers for precise, indirect mass fires and counter-fire operations.

The DRU-H-R has growth capacity to add an embedded Selective Availability Anti-Spoofing Module (SAASM) GPS with M-code capability. It can also be configured to function in unmanned, rotational and shipboard environments.

The DRU-H-R is an advanced precision navigation system that provides platform (or weapon) position and attitude data. This unit replaced the DRU-H on Paladin and Firefinder, both playing critical roles in supporting U.S. ground forces in all phases of active combat operations. The EMCORE DRU-H-R design upgraded system performance by using high accuracy, combat proven inertial sensors currently fielded on the Multiple Launch Rocket System (MLRS), High-Mobility Artillery Rocket System (HIMARS), and Improved Position and Azimuth Determining System (IPADS).

The DRU-H-R delivers precisely what the Army of tomorrow needs — a sustainable, affordable system designed to remain operationally effective well into the future.



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