



NEWS RELEASE

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Curtiss-Wright Announces First Combined VICTORY Switch, Processor and Mounted Assured PNT-Enabling Solution in a Single Box

The DuraDBH-672, based on the proven Digital Beachhead™, now adds a reliable PNT capability to its VICTORY in-vehicle network implementation to support all vehicle platforms in GPS-denied environments

AUSA 2016, WASHINGTON, D.C. (Booth #319) – October 3, 2016 – Curtiss-Wright's Defense Solutions division today announced that it has developed the industry's first COTS-based system to enable cost-effective, accurate Mounted Assured-PNT (MAPS) functionality, including support for an integrated military GB-GRAM (Ground Based GPS Receiver Application Module), Chip Scale Atomic Clock (CSAC) and Inertial Measurement Unit (IMU). Combined with a proven VICTORY infrastructure switch and shared services processor, this pre-qualified and low-cost Line Replaceable Unit (LRU) is ready for deployment on ground vehicles. Curtiss-Wright's DuraDBH-672 Digital Beachhead™ system empowers the U.S. Army's MAPS approach to distribute Assured Position, Navigation and Timing (A-PNT) to systems on mounted platforms even in GPS-denied environments. This LRU provides affordable PNT hub capabilities using non-GPS augmentation for mounted platforms. Expanding on the flexible capabilities of its Digital Beachhead family of VICTORY network switching and services appliances, Curtiss-Wright leads the way in delivering the Army's vision for networked vehicles, while facilitating the rapid integration of new capabilities, such as A-PNT and networked sensors/FIRES. To help bring this COTS-based MAPS/VICTORY solution to the warfighter, Curtiss-Wright is currently working with the U.S. Army Tank Automotive Research Development and Engineering Center (TARDEC) to test and evaluate the DuraDBH-672.

"The addition of MAPS-enabling functionality to our popular Digital Beachhead product family, resulting in a single box solution for implementing VICTORY and Assured-PNT, reflects our ongoing investment and commitment to bring mature, cost-effective COTS-based solutions to the warfighter," said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. "We continue to strengthen our position as the best partner for bringing advanced ground vehicle applications, such as VICTORY In-Vehicle Network (IVN) services and Assured-PNT to the mounted warfighter, quickly and affordably."

About the DuraDBH-672 Digital Beachhead

The DuraDBH-672 small form factor Gigabit Ethernet (GbE) switch and vehicle processor system builds on and expands the proven VICTORY capabilities first introduced in the original DBH-670 system. This all-in-one unit can consolidate support for network switch, vehicle processor, embedded GPS, atomic clock, inertial navigation, solid-state storage, and add-in I/O interface in a single LRU. With the addition of MAPS-enabling technology, the size, weight, power and cost (SWaP-C) optimized DuraDBH-672 now provides a compelling solution for distributing critical PNT data to vehicle mission systems.

The unit delivers 16 ports of managed GbE switching and static routing, a low-power multi-core vetronics computer, and support for VICTORY software applications (based on U.S. Army TARDEC libVICTORY API) and common network services software. Its modular I/O and storage architecture is based on Mini-PCIe cards and mSATA SSD Flash storage to support the same application-specific I/O requirements (MIL-STD-1553 / ARINC429 / COM / DIO / GPS modules) traditionally offered with Curtiss-Wright's popular Parvus DuraCOR mission computers. In addition, optional IMU, CSAC, and GB-GRAM modules (for SASSM / M-Code GPS) can be integrated to enable A-PNT capabilities. This U.S.-built subsystem is dust and waterproof (IP67) and runs fanless under extended operating temperatures. MIL-STD qualified for high shock/vibration requirements, the DuraDBH-672 integrates a filtered, transient-protected power supply for vehicle use (per MIL-STD-1275, MIL-STD-704) and includes circular MIL-DTL-38999 connectors on its front panel for reliable network connections. For unique requirements, Curtiss-Wright offers turnkey Modified COTS (MCOTS) variants of the Digital Beachhead and application engineering services.

Curtiss-Wright's Digital Beachhead Product Family

Curtiss-Wright's comprehensive line of VICTORY-enabled Digital Beachhead modules and systems includes both fully integrated rugged systems and open standards-based modules:

- DBH-670 – first generation Digital Beachhead VICTORY services and switching unit
- DuraDBH-672 – second-generation Digital Beachhead optimized for high-volume platforms
- VPX3-671 – line replaceable VICTORY switch and processor module for 3U VPX systems

Fulfilling the Promise of VICTORY and Assured PNT

Today's combat vehicles are typically deployed with multiple independent systems that have no ability to share their functionalities or data. To address and mitigate this problem, the U.S. Army's VICTORY architecture encourages the use of COTS open-system standards, which helps reduce redundancy and makes additional space available by optimizing SWaP-C.

Sales inquiries: Please forward all Sales and reader service inquiries to ds@curtisswright.com.

For more information about Curtiss-Wright's Defense Solutions division, please visit www.curtisswrightds.com.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships. The company employs approximately 8,400 people worldwide. For more information, visit www.curtisswright.com.

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