



NEWS RELEASE

FOR IMMEDIATE RELEASE

Contact: John Wranovics
M: 925.640.6402
jwranovics@curtisswright.com

Curtiss-Wright New Lightweight Mission Computer Hits the Sweet Spot for Deployed GPGPU-based Signal Processing/Image Processing Applications

New compact MPMC-9337 packs high-performance Intel® and NVIDIA® processing into a highly rugged 3U OpenVPX™ chassis

ASHBURN, Va. – June 13, 2022 – Curtiss-Wright's [Defense Solutions division](#), a leading supplier of [modular open systems approach](#) (MOSA) solutions engineered to succeed, today introduced the newest addition to its extensive range of fully integrated rugged mission computers. The MPMC-9337 is purpose-built for deployed platforms that need additional on-board processing power but must limit their size, weight and space (SWaP) burden. The MIL-grade, rugged three-slot 3U OpenVPX mission computer comes ready “out-of-the-box” to support compute intensive GPGPU driven applications, including cognitive signal and image processing. It is pre-configured with a Curtiss-Wright VPX3-1220 or VPX3-1260 single board computer (SBC) in the first slot and an NVIDIA® GPGPU based co-processor module in the second slot. The SBC hosts a Curtiss-Wright XMC-E01 fiber-optic XMC module (VITA 42) that delivers four channels of 10 Gb Ethernet (configurable as 4 x 1000BASE-T Ethernet ports or 4 x 10GBASE-SR Fiber Ethernet ports). The chassis’ third slot can support an optional 3U OpenVPX SATA solid-state drive (SSD) storage module or an additional 3U OpenVPX PCIe card. The MPMC-9337 also features an integrated 28 VDC power supply. At only 250 cubic inches, this compact mission computer delivers reliable and predictable performance in operating temperatures rated up to 71°C.

The system uses advanced coldplate and thermal management technology removing the need for fans, vehicle supplied air, liquid, or other demands from the vehicle. Designed for operation in harsh military environments, the MPMC-9337 chassis includes heaters to support cold-starts in

temperatures rated as low as -50C. I/O provided by the system includes a dual channel CAN/MilCAN offload controller, as well as USB and video ports accessible at the front of the unit.

“Not every deployed platform Situational Awareness or ISR application needs the highest performance processing you can throw at it,” said Chris Wiltsey, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions. “System designers often seek a compact, lightweight mission computer that balances just the right amount of compute horsepower with the smallest possible SWaP requirement. Our MPMC-9337 hits the mark with a powerful Intel-based SBC, an NVIDIA powered GPGPU co-processing engine, and quad 10 Gb Ethernet over fiber optic cabling, all housed in a rugged three-slot chassis. Even better, if their application requires high-density data storage, the system integrator can configure the unit’s third OpenVPX slot with a SATA SSD card.”

Built Rugged to Demanding MIL Environmental Standards

To ensure the highest levels of performance, the MPMC-9337 was designed to meet or surpass MIL-STD-810 Qualifications for military equipment. The system has successfully passed environmental qualification tests, including but not limited to temperature, altitude, shock, vibration, fluid susceptibility, voltage spikes, and electrostatic. The circuit cards installed in the sealed compact chassis are completely isolated from external environmental conditions such as humidity, dust, and sand. Filters on power inlet and I/O signals, as well as EMC gaskets around every chassis joint, provide the unit with excellent resistance to external EMI and minimizes emissions to deliver improved reliability.

To [download the MPMC-9337 Mission Computer product sheet, please click here.](#)

For information about Curtiss-Wright MOSA technologies, please click [here](#).

For additional information about Curtiss-Wright please visit www.curtisswrightds.com, LinkedIn, and Twitter @CurtissWrightDS.

Broadest Range of MOSA Solutions for Aerospace & Defense Programs

Curtiss-Wright Defense Solutions offerings are based on the Modular Open Systems Approach (MOSA). These open architecture solutions eliminate proprietary interfaces through the use of widely supported consensus-based standards for the major system interfaces between systems and components. From rugged COTS components and modules to ready-to-integrate subsystems, our

full suite of solutions, and our product road map, all adhere to MOSA. Curtiss-Wright MOSA Solutions include fully integrated CMOSS/SOSA aligned systems, as well as 3U and 6U OpenVPX system building blocks. For system development we offer complete system architecture services, Quick Reaction Capabilities, and development platforms such as our 3U OpenVPX CMOSS/SOSA-aligned enclosures and CMOSS/SOSA Starter Kits.

We offer the most comprehensive range of open standards based small form factor subsystems and modules, including the PacStar® 400 Series of modular Tactical Battlefield Communications solutions, the ultra-compact Parvus® family of processing and network line replaceable units (LRUs), and a complete line of data acquisition solutions. Our MOSA based rugged data solutions support high-density secure data storage protected with either Type 1 Top Secret or NSA-certified Commercial Solutions for Classified (CSfC) encryption. Designed for use on platforms that experience intense shock and vibration, such as helicopters and ground vehicles, our family of video management systems and rugged touchscreen LCD displays delivers optimal performance in harsh environments.

Whether in the air, on the ground, or at sea, Curtiss-Wright Defense Solutions MOSA technologies deliver high reliability and performance for the most demanding deployed applications, such as Battle Command, Mission Analysis & Planning, SIGINT, RADAR, EW, Flight Test, Jamming, Comms, Fire Control, Vehicle Electronics and Human Machine Interfaces.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation (NYSE:CW) is a global integrated business that provides highly engineered products, solutions and services mainly to Aerospace & Defense markets, as well as critical technologies in demanding Commercial Power, Process and Industrial markets. We leverage a workforce of 7,800 highly skilled employees who develop, design and build what we believe are the best engineered solutions to the markets we serve. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing innovative solutions through trusted customer relationships. For more information, visit www.curtisswright.com.

###

NOTE: All trademarks are property of their respective owners.