



NEWS RELEASE

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Curtiss-Wright Debuts Compact, Pre-Integrated EW RF Tuner Mission Computer Featuring Leonardo DRS SI-9172 Vesper Tuner/Exciter

***New MPMC-9323 EWS-DRS mission computer speeds development/deployment of
high performance EW/RF applications with COTS-based open architecture solution***

ASHBURN, Va. – October 3, 2018 – Curtiss-Wright's Defense Solutions division today announced the [MPMC-9323/EWS-DRS](#), the latest addition to its family of open architecture COTS-based EW RF tuner mission computers. To address today's emerging Electronic Warfare (EW) threats, system integrators seek to deploy the maximum number of RF channels, supported with supercomputing-class processing in a chassis small and light enough to minimize the platform's SWaP burden. Designed to ease and speed the development and deployment of EW hardware solutions to the warfighter, the [MPMC-9323/EWS-DRS mission computer](#) provides system integrators with a pre-integrated, SWaP-optimized Multi-Channel Tuner System that features a Leonardo DRS SI-9172 Vesper Tuner/Exciter. This new compact design eases the deployment of EW hardware solutions to the warfighter and speeds the development for system integrators. This RF tuner-based EW System (EWS) is ideal for countering emerging battlefield threats in COMINT and ELINT applications.

The MPMC-9323/EWS-DRS mission computer features an ideal combination of solutions. It integrates the SI-9172 3U OpenVPX™ module, a Curtiss-Wright [Xilinx® Kintex®-7 XF07-523 FPGA mezzanine module](#), and an [Intel® Xeon® D-based CHAMP-XD1 DSP engine](#), to provide end-to-end data flow and enables the customer to focus on their application instead of the integrated hardware architecture. Even better, this EW/RF tuner mission computer is packaged in Curtiss-Wright's [2-slot 3U OpenVPX MPMC-9323 Mission Computing System](#). This rugged chassis, a compelling SWaP-optimized solution - 10.5" x 5.9" x 7.7" volume and weight of 18 lb. - is designed to meet or exceed the most demanding thermal requirements.

The MPMC-9323 chassis's [PSU3-THOR power supply](#) also provides system designers with two additional XMC sites that can be optionally configured to support Gigabit Ethernet (GbE) ports (via an XMC-651 Ethernet Switch) or up to terabytes of data storage (via an XMC-554 SSD Flash Memory card), depending on customer application requirements. To support the SI-9172 Vesper Tuner/Exciter module's high performance RF bandwidth, this EWS mission computer supports the new VITA 67.3 subminiature

blind-mate multicoaxial RF backplane connectors which deliver new levels of RF bandwidth and signal density.

“We are excited to extend our support for Leonardo DRS embedded RF Tuner technology with the introduction of our new Electronic Warfare System-DRS mission computer, which combines the recently announced SI-9172 Vesper Tuner/Exciter with our best-in-class DSP engine and FPGA processor modules in a compact rugged chassis,” said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. “This pre-integrated COTS mission computer speeds the deployment of cost-effective, proven Electronic Warfare solutions to the warfighter,”

MPMC-9323/EWS-DRS Performance Features

- SWaP-optimized rugged signal processor
- 4 x High-performance tuner channels
 - 2 MHz to 6 GHz
 - 100 µsecs tuning speed
 - 100 MHz IF passband
- CHAMP-XD1 DSP engine
 - Intel Xeon D Octal Core DSP
 - 410 GFLOPs with AVX2
- XF07-523 FPGA mezzanine module
 - Xilinx Kintex-7 410T FPGA processor
 - User Programmable - PCIe/GTP
- High bandwidth I/O options
 - 1 and 10 Gigabit Ethernet, USB
- MIL-STD-810/MIL-STD-461

About the Leonardo DRS SI-9172 Vesper Tuner/Exciter

The Leonardo DRS SI-9172 Vesper tuner/exciter card provides four high-performance configurable tuner channels. It provides multiple receiver channels with independent or phase coherent tuning and an optional exciter channel covering 2 MHz to 6 GHz. The RF tuner provides the bandwidth, dynamic range with low noise, processing, and configurability required for today’s EW applications.

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 8,600 people worldwide. For more information, visit www.curtisswright.com.

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