



## NEWS RELEASE

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FOR IMMEDIATE RELEASE

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### **Small Form Factor Mission Computer Delivers Multi-Core Workstation-Class Compute Power for SWaP-Sensitive Deployed Applications**

*New trusted and secure Parvus DuraCOR 8044 brings Intel® Xeon®-W 8-Core processing in ultra-rugged design to air, ground and maritime platforms*

ASHBURN, Va. – February 02, 2024 – Curtiss-Wright’s [Defense Solutions Division](#) has introduced its latest rugged small form factor (SFF) mission computer designed for civil and military tactical processing applications. The ultra-reliable Parvus® DuraCOR® 8044 Modular Mission Computer Workstation features a sealed and fanless IP67-compliant design that enables system designers to confidently meet compute-intensive requirements for applications deployed in the harshest environments. The ITAR-free, U.S. Commerce EAR controlled unit features one of the most powerful compute engines available in an SFF mission computer, an 8-core, 16 thread 11th gen Intel® Xeon®-W (Tiger Lake-H) processor.

“The introduction of the Parvus DuraCOR 8044 furthers our commitment to being the industry’s leading supplier of trusted and secure, highly rugged small form factor mission computers,” said Brian Perry, Senior Vice President, and General Manager, Defense Solutions Division. “The exportable, ITAR-free DuraCOR 8044, with its Intel Xeon-W processor raises the bar for workstation class multi-core computing in the smallest possible size and weight envelope.”

The DuraCOR 8044 meets or exceeds MIL-810G and DO-160G environmental test standards, weighs only 5.6 lb and measures 6.75" x 6.25" x 3.5" (135 cubic inches). The mission computer's powerful Intel Iris Xe GPU supports OpenGL® for graphics-intensive applications and OpenCL™ for GPGPU-accelerated data processing-intensive applications. When low-latency, on-time transfer of critical data is demanded, the unit supports high-speed Time Sensitive (real-time) Ethernet endpoint connectivity at rates up to 10 Gigabits.

Designed with cybersecurity in mind, the DuraCOR 8044 provides zero-trust architected computing with support for a wide range of trusted computing features, including Trusted Platform Module (TPM) 2.0, to ensure that only trusted and signed BIOS and software can execute on the system. The unit also supports UEFI Secure Boot, Intel Boot Guard, Intel Advanced Encryption Standard New Instructions (Intel® AES-NI), Intel SHA Extensions, zeroize discrete, and optional self-encrypting/fast purge SSDs.

The DuraCOR 8044's high level of shock, vibration, thermal, altitude, humidity, and ingress protection make it ideal for a wide range of applications and manned/unmanned platforms, including civil and military in-vehicle, maritime and airborne mission computing, fixed and rotary wing aircraft, tactical ground vehicles, outdoor and underground platforms and C5ISR technology refresh and LRU upgrades. The rugged SFF Parvus DuraCOR 8044 mission computer features adaptable core processing capabilities that can host multiple mission requirements. From flight management and display management processing functions to advanced mission computing, network data management and video switching functions, our cost-effective onboard computers are readily scalable for a wide range of applications.

Modified COTS variants of the DuraCOR 8044 mission computer are available with no or low-cost NRE via pre-integration of add-on I/O cards, such as Dual Mini-PCIe/mSATA card slots and a stackable PCIe/104 bus to accommodate additional platform-specific I/O interfaces. The unit's modular interlocking chassis design supports add-on segments for I/O and storage, with pre-integrated DTL-38999 connectors for I/O integration without mechanical changes.

## **Complete Integrated Subsystem Solutions**

The DuraCOR 8044 can be pre-integrated with Curtiss-Wright's Parvus DuraNET® 20-10 SFF network switch to consolidate processing and networking functions into a single standalone LRU.

Sales inquiries: Please forward all Sales and reader service inquiries to [ds@curtisswright.com](mailto:ds@curtisswright.com).

The [DuraCOR 8044 product sheet is available for download here](#).

For information about Curtiss-Wright Defense Solutions products, please visit [www.curtisswrightds.com](http://www.curtisswrightds.com), LinkedIn, and X @CurtissWrightDS.

## **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 approximately 8,600 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](http://www.curtisswright.com).

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