



NEWS RELEASE

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Curtiss-Wright Delivers High End Processing in Small Form Factor Rugged Mission Computer Powered by Quad-Core 6th Gen “Skylake” Intel® Mobile Xeon®

Designed for deployed air, ground and maritime platforms, new DuraCOR 8043 delivers 32 GB of ECC DDR4 memory and Intel® Iris™ Pro Graphics GPU

HELI-EXPO 2017 (Booth #8751), DALLAS, TX – March 7, 2017 – – [Curtiss-Wright's Defense Solutions division](#) today introduced the [DuraCOR® 8043 Mission Computer](#), the newest member of its Parvus® family of small form factor (SFF) modular mission computers. Weighing less than 5.7 lb (base configuration), this compact, rugged LRU is the first DuraCOR product to feature the quad-core 6th Gen “Skylake” Intel Mobile Xeon E3 v5 processor. Designers of a wide range of manned and unmanned airborne, ground and naval platforms are seeking high compute power solutions that make the least demands in terms of size, weight, and power (SWaP). Built for optimal performance over the full -40 to +71C military operating temperature range, this highly rugged mission computer requires no active cooling. It is completely sealed and features a fanless IP67 design (dust and waterproof). It also provides support for advanced features such as 32GB of Error-Correcting Code (ECC) DDR4 memory and an integrated Intel Graphics GPU. Built for maximum flexibility, the mission computer's modular design supports high cycle insertion (100,000 mates) removable storage. To ensure that their solution meets their program's specific and unique requirements, customers can choose from a numerous add-on mini-PCIe and PCIe104 modules, which can be pre-integrated by Curtiss-Wright without traditional NRE fees. The DuraCOR 8043 delivers an ideal balance of high performance processing and small size/weight/power envelope for demanding civil and military platforms such as ground vehicles, fixed or rotary wing aircraft, and maritime platforms.

“Our Parvus family of rugged small form factor mission computers leads the industry in delivering high performance multi-core processing in the smallest possible size and weight envelope,” said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. “The new DuraCOR 8043, sets a new standard for small form factor, flexibly configured mission computing. It keeps pace with Intel's processor roadmap, providing system designers with 6th Gen “Skylake” Intel Mobile Xeon processing and powerful graphics in a compact rugged modular chassis that can be quickly modified to platform-specific requirements with minimal or no NRE expense.”

Fully Tested and Pre-Qualified

The dual-use (commercial and military) DuraCOR 8043 is an ITAR-free LRU. It's designed to stringent MIL and commercial aerospace standards including MIL-STD-810G, MIL-STD-461G, MIL-STD-1275D, MIL-STD-704F and RTCA/DO-160G conditions for environmental, power and EMI compliance. The unit includes a military-grade power supply that supports aircraft (MIL-STD-704F, DO-160G) and ground vehicle (MIL-STD-1275D) voltages with capabilities for optional 50/200 ms power hold-up and N+1 failover redundancy.

Advanced Graphics

For graphics-intensive applications, the mission computer supports OpenGL® on its integrated Intel® Iris™ Pro Graphics GPU. It also supports OpenCL™, providing up to 640 GFLOPS of performance for data processing-intensive applications and its powerful Advanced Vector Extensions are available to accelerate math-intensive algorithms.

Parvus: Complete Integrated Subsystem Solutions

The DuraCOR 8043 can be pre-integrated with Curtiss-Wright's SFF network router / switch products, such as [the DuraNET 20-10](#) or [30-2020 switches](#) and/or [DuraMAR 5915 router](#), or can be configured as a [DuraWORX 8043 system](#) consolidating processing and networking functions into a single standalone LRU.

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 8,000 people worldwide. For more information, visit www.curtisswright.com.

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