



NEWS RELEASE

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Curtiss-Wright Debuts Industry’s First Safety-Certifiable VPX Single Board Computer to Feature 13th Gen Intel® Processors

New V3-1222, Curtiss-Wright’s first Intel-based safety-certifiable processor board, is supported with COTS-available AC/AMC 20-152A DAL A data artifacts

ARMY AVIATION MISSION SOLUTIONS SUMMIT 2024 (AAAA), DENVER, Colo. (Booth 2023) – April 24, 2024 – Curtiss-Wright’s [Defense Solutions Division](#) today announced the expansion of its family of DO-254 safety-certifiable single board computers (SBC) with the introduction of its first Intel® architecture-based design. The new [V3-1222 processor module](#) is the embedded industry’s first to feature the 13th Gen Intel® Core™ Processor for avionics. The module is supported by the Intel® Airworthiness Evidence Package and is housed on a rugged 3U VPX board designed for DO-254 Design Assurance Level (DAL) A safety-certifiable applications. To ease, speed and lower the cost of developing safety-certifiable avionics applications, the V3-1222 processor board is supported with commercial-off-the-shelf (COTS)-available AC/AMC 20-152A DAL A artifacts.

“The introduction of our first Intel-based safety-certifiable single board computer, the first to feature Intel’s new 13th Gen Intel® Core™ i7 Processor for avionics and Intel® Airworthiness Evidence Package, and supported with available off-the-shelf data artifacts, further enhances our position as a leading supplier of safety-certifiable COTS solutions for the avionics market,” said Brian Perry, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions. “The addition of this compelling new rugged SBC to our family of safety-certifiable processors positions Curtiss-Wright

with the widest selection of DO-254 DAL A-compliant processors, enabling us to meet the requirements of the broadest range of safety-certifiable avionics system design requirements.”

“In the dynamic world of avionics, where every second counts and determinism is paramount, processors serve as the silent but indispensable backbone, powering the systems that help ensure safe and efficient flight,” said Tony Franklin, General Manager of Intel’s Federal and Aerospace group. “The newly announced SOSA aligned V3-1222 3U VPX board from Curtiss-Wright brings a NRE free Off The Shelf approach to safety-certifiable COTS and, with the help of Intel technology, delivers an impressive multi-core performance while accelerating safety certification for SBC-based systems.”

The new processor board significantly speeds the development of safety-certifiable avionics solutions, reduces program risk and accelerates time-to-deployment by providing system integrators with the board level data artifacts needed to support a system level avionics certification process. The availability of proven, safety-certifiable COTS data artifacts, with no required NRE, can save customers millions of dollars and multiple years of development typically required to develop a safety-certifiable processor and data artifacts from the ground up.

This SOSA™ Technical Standard aligned 3U VPX form factor processor board combines high-performance processing and graphics in a single slot and is designed for use in compute-intensive applications such as flight control computers, mission control, and primary flight displays. The V3-1222 delivers superior processing power, more PCIe connectivity, 64 GB of DDR5 memory with in-band ECC, dual DisplayPort and dual Gigabit Ethernet (GbE) interfaces with support for Time Sensitive Networking (TSN). The 13th Gen Intel® Core™ processors also incorporate Intel® Time-Coordinated Computing Technology and Intel® Silicon Integrity Technology for enhanced determinism and integrity demanded by avionics manufacturers. Intel® Hybrid Technology in the 13th Gen Intel® Core™ processors enables system designers to flexibly fine-tune the performance and power usage of the device’s Performance Cores (P-Cores) and Efficient Cores (E-Cores) to meet their application’s specific requirements.

The V3-1222 module joins Curtiss-Wright’s broad family of safety-certifiable rugged modules to offer avionics system integrators the widest selection of processor options with which to meet their application’s unique requirements. Curtiss-Wright’s previously introduced [VPX3-1262 processing module](#), also based on the 13th Gen Intel® Core™ i7 Processor, is ideal for applications that do not

require safety-certifiability. For safety-certifiable applications that require GPU support for graphics or AI/ML processing, Intel architecture devices, of the three leading processor types, uniquely offer integrated Intel® Iris® X^e graphics hardware and software support.

To learn more about [P-Cores and E-Cores read Curtiss-Wright's Cores & Threads White Paper](#).

For additional information, please visit www.curtisswrightds.com, LinkedIn, and X @CurtissWrightDS. For more information on Intel offerings for aerospace and defense, please visit intel.com/aerospacedefense or reach out directly to IOTG-PublicSector@intel.com.

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.

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