NEWS RELEASE

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CURTISS-WRIGHT INTRODUCES SOSA ALIGNED VPX6-682E 100 GBE SWITCH FOR HIGH-PERFORMANCE EMBEDDED SYSTEMS

New Fabric100™ switch delivers rugged, low-power 6U 100 Gigabit Ethernet connectivity for modular open systems sensor processing applications

ASHBURN, Va. – September 16, 2025 – Curtiss-Wright today announced the release of the VPX6-682E, a new Sensor Open Systems Architecture (SOSA®) aligned 6U 100 Gigabit Ethernet (GbE) switch developed to meet the data throughput demands of advanced high-performance embedded computing (HPEC) and C5ISR systems. As the latest addition to Curtiss-Wright's Fabric100 ecosystem, the VPX6-682E delivers the bandwidth, scalability, and efficiency required for large, high-speed signal and sensor processing platforms at the tactical edge.

"The VPX6-682E and the broader Fabric100 ecosystem enable system designers to build complete, high-bandwidth HPEC architectures with reduced integration complexity," said Brian Perry, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions. "Curtiss-Wright is delivering the foundational high-performance networking technology needed to scale and accelerate next-generation sensor processing systems - ensuring rapid, reliable access to trusted data that mission-critical operations demand."

Designed to simplify system integration and reduce development risk, the VPX6-682E enhances interoperability and accelerates certification by aligning with Curtiss-Wright's Fabric100 ecosystem of computing solutions. Featuring dual high-efficiency switching cores and available with conduction-cooled and Liquid Flow Through (LFT) cooling options as part of its rugged system design, the VPX6-682E optimizes system performance and thermal management in the most demanding environments.

Key Features of the VPX6-682E:

- Fully managed multi-layer Ethernet switch supporting configuration, monitoring, and control features including QoS, VLAN, ACL, and PTP support
- 100, 50, 40, 25, and 10 Gb Ethernet interfaces over copper and optional optical backplane connections
- Dual-switch architecture, leveraging two highly efficient 100 GbE devices, delivers significantly lower power consumption than competing single-switch designs
- SOSA aligned OpenVPX 6U profile with full Fabric100 ecosystem compatibility
- Available in conduction cooled or advanced LFT cooling with full lifecycle support services

The VPX6-682E is ideally suited for embedded applications that demand real-time, high-throughput connectivity, including radar, EO/IR sensor fusion, autonomous systems, and signals intelligence. When combined with the CHAMP-XD4 (VPX6-485) dual Intel® Xeon® D-2800 processor card and the CHAMP-FX7 (VPX6-476) dual AMD Versal™ Premium ASoC (FPGA) processor card, these 6U modules form an interoperable, low-risk suite of products with 100 Gb Ethernet connectivity for architecting advanced HPEC systems. This growing portfolio, aligned with the SOSA® Technical Standard, supports a Modular Open Systems Approach (MOSA) to ensure long-term upgradeability, faster adaptation to evolving requirements, and reduced integration risk.

The datasheet for the VPX6-682E is available for download here.

For more information, visit https://www.curtisswrightds.com or connect with us on LinkedIn.

About Curtiss-Wright
Curtiss-Wright 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 Nuclear Power, Process and Industrial markets. We leverage a workforce of approximately 9,000 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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