



NEWS RELEASE

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Low-Power, Affordable 3U OpenVPX 100 Gigabit Ethernet Switch Module Speeds and Simplifies System Integration

New Fabric100™ VPX3-6816 complements Curtiss-Wright's recently introduced VPX3-1262 14-core 13th Gen Intel® Core™ processor SBC to provide system designers with a powerful SOSA aligned 100GbE 3U processing board-set

ARMY AVIATION MISSION SOLUTIONS SUMMIT 2024 (AAAA), DENVER, Colo. (Booth 2023) – April 24, 2024 – Curtiss-Wright's [Defense Solutions Division](#) today introduced the [VPX3-6816](#), a Sensor Open Systems Architecture™ (SOSA) aligned 100 Gigabit Ethernet (GbE) Switch for use in next-generation rugged processing systems. The low-power and affordable rugged 3U VPX module is designed and optimized to deliver the low-latency, high-speed Ethernet backbone required by modern aerospace and defense sensor processing architectures and supports a rich set of multi-layer L2 switching and L3 routing features. The module supports up to thirty-three (33) Ethernet ports with any mix of 1, 10, 25, 40, 50, and 100GbE port speeds. In addition to being aligned with the Open Group SOSA Technical Standard, the VPX3-6816 is also available in configurations that support numerous existing OpenVPX™ profiles.

“Our [Fabric100](#) family delivers a complete end-to-end solution for architecting 100Gbit SOSA aligned rugged systems,” said Brian Perry, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions Division. “The low-power, low-cost 3U VPX3-6816 Ethernet switch module is the latest addition to our Fabric100 suite and provides high-speed switching with the trusted performance that today's advanced sensor architectures demand.”

About the VPX3-6816 Ethernet Switch

With its 40/100GbE Data Plane and 10/25GbE Control Plane, the VPX3-6816 complements the previously introduced [VPX3-1262](#) 14-core 13th Gen Intel Core Hybrid processor-based SBC. The VPX3-6816 is also drop-in compatible with Curtiss-Wright's very successful [VPX3-687](#) 40GbE switch and supports that board's 40GbE data rates with a path for future growth to 100GbE performance.

Both the VPX3-6816 and VPX3-1262 are recent additions to Curtiss-Wright's Fabric100 family of extremely high-performance SOSA aligned processing modules. Fabric100 brings high-performance 100 GbE and PCIe[®] Gen4 interconnect speeds to the new generation of deployable compute architectures. Curtiss-Wright's Fabric100 suite is the only embedded ecosystem that delivers uncompromised, full 100GbE performance across a comprehensive range of trusted 3U and 6U VPX form factor plug-in cards (PIC) and systems. Designed in alignment with the SOSA Technical Standard, the board delivers line-rate switching for demanding ISR and mission-critical processing applications. The VPX3-6816, which is available in conduction-cooled L300 ruggedization (L200 ruggedization with ESD covers), is suitable for high-reliability embedded ground, naval, airborne, and commercial/industrial applications.

The versatile, high-performance non-blocking Ethernet Switch provides up to 33 ports of backplane copper Ethernet connectivity. The VPX3-6816 provides system designers with a fully managed multi-layer Ethernet switch that offers an extensive range of network switching and routing services, including efficient multicast packet processing and flexible quality of service (QoS) prioritization supported with a powerful range of security features. On-board management software provides a powerful command line interface (CLI), SNMP, and web-based options for configuration, management, and monitoring.

To download the VPX3-6816 product sheet, please click [here](#).

To download the VPX3-1262 product sheet, please click [here](#).

For information about availability of development boards and Quick Start Kits (QSK) to support your program needs, please contact us at ds@curtisswright.com, visit our website at www.curtisswrightds.com, or contact your local Curtiss-Wright sales representative.

For additional information about Curtiss-Wright MOSA technologies, please visit 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.

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