

# Switching and Routing Modules

## Your Guide to Seamless Networking from Curtiss-Wright



Switches and routers are essential in a connected environment, where operational success depends on efficient data communications between systems and within systems-of-systems.

Curtiss-Wright switches and routers help turn the promise of fully networked defense and aerospace systems into reality by accelerating and simplifying the integration of powerful network solutions that interconnect chassis, cards, and CPUs.

Configure your system with confidence using solutions that lead the industry in quality, reliability and ruggedness. Curtiss-Wright offers the broadest selection of switching modules available on the market, so you can select the form factor, interfaces, protocols and features that match your requirements and exceed your expectations.

### VPX™ Ethernet Switches and Routers

Designed for the current generation of VPX systems and compliant with common OpenVPX™ profiles, our 3U and 6U VPX systems offer wire-speed Gigabit Ethernet and 10G Ethernet connectivity for intra-platform switching and secure WAN routing.



PRODUCT	FORM FACTOR	DESCRIPTION	TYPICAL INTERFACES	KEY FEATURES	RUGGED LEVELS*
<a href="#">VPX3-687</a>	3U VPX	Managed 10 Gigabit Ethernet switch with backplane Ethernet and multi-layer services.	32 x 10 GbE or 8 x 40 GbE	Line-rate forwarding up to 320 Gbps	AC 0 CC 200
<a href="#">VPX3-685</a>	3U OpenVPX	Gigabit Ethernet secure WAN router with integrated firewall and VPN.	20 Gigabit Ethernet (12 1000Base-T + 8 1000Base-X)	FIPS 140-2 encryption algorithms	AC 0 CC 300
<a href="#">VPX3-683</a>	3U OpenVPX	Managed Gigabit Ethernet switch & router with 10 GbE uplinks and multi-layer services.	24 Gigabit Ethernet (1000Base-X) 2 x10G XAUI	High density SerDes Gigabit Ethernet and 10G	AC 0, 100 CC 200, 300
<a href="#">VPX3-671</a>	3U VPX	Layer-2 managed Gigabit Ethernet switch with processor mezzanine for VICTORY networking.	12 Gigabit Ethernet (1000Base-T)	VICTORY compliance. ECC memories for radiation resilience	CC 300
<a href="#">VPX3-652</a>	3U OpenVPX	Low power Layer-2 managed Gigabit Ethernet switch.	20 Gigabit Ethernet (12 1000Base-T + 8 1000Base-X)	Low power operation (<15W typical), fast boot	AC 0, 100 CC 200, 300
<a href="#">VPX6-684</a>	6U OpenVPX	Managed Gigabit Ethernet switch & router with 10 GbE uplinks and multi-layer services. Optional security module for VPN and firewall services.	24 Gigabit Ethernet (1000Base-T) 4 x 10G XAUI	IPv4/IPv6 dynamic routing, multicast. Optional security module for VPN, firewall	AC 0, 100 CC 200

\* See Curtiss-Wright's [Ruggedization Table](#)

## PMC/XMC Switches



Curtiss-Wright PMC/XMC switches provide SWaP-optimized in-chassis networking with a Gigabit Ethernet mezzanine card.

PRODUCT	FORM FACTOR	DESCRIPTION	TYPICAL INTERFACES	KEY FEATURES	RUGGED LEVELS*
<a href="#">PMC-651</a>	PMC	Managed Gigabit Ethernet switching mezzanine.	8-12 Gigabit Ethernet (1000Base-T)	Low SWaP – zero slot switch PMC/VMC configurations	AC 0, 100 CC 200
<a href="#">XMC-651</a>	XMC	Managed Gigabit Ethernet switching mezzanine.	8 Gigabit Ethernet (1000Base-T)	Low SWaP – zero slot switch PMC/VMC configurations	AC 0, 100 CC 200

## OpenVPX Fabric and Hybrid Switches



These hybrid switches are designed to meet the needs of high-performance processing systems with low-latency and low-overhead fabrics based on RapidIO®, Ethernet and InfiniBand®.

PRODUCT	FORM FACTOR	DESCRIPTION	TYPICAL INTERFACES	KEY FEATURES	RUGGED LEVELS*
<a href="#">VPX6-6902</a>	6U OpenVPX	Hybrid switch combining Serial RapidIO Gen2 fabric and Gigabit Ethernet control plane switch	20 RapidIO 16 Gigabit Ethernet (1000Base-X)	896 Gbps RapidIO fabric	AC 0, 100 CC 200
<a href="#">VPX6-6802</a>	6U OpenVPX	Hybrid switch combining 40Gbps Ethernet/InfiniBand fabric and Gigabit Ethernet control plane switch	20 10G/40G Ethernet/InfiniBand 16 Gigabit Ethernet (1000Base-X)	Fabric40™ data plane	AC 0, 100 CC 200

## VME Switches and Routers



Curtiss-Wright VME switches and routers enable fully featured Gigabit Ethernet networking for new VME systems or as an upgrade existing systems.

PRODUCT	FORM FACTOR	DESCRIPTION	TYPICAL INTERFACES	KEY FEATURES	RUGGED LEVELS*
<a href="#">VME-682</a>	VME	Managed Gigabit Ethernet switch & router with multi-layer services.	20 Gigabit Ethernet (1000Base-T)	IPv4/IPv6 dynamic routing, multicast. Optional security module for VPN, firewall	AC 0, 100 CC 200

\* See Curtiss-Wright's [Ruggedization Table](#)

## Embedded Routers with Cisco IOS™



As a Cisco Solution Technology Integrator (STI), Curtiss-Wright offers ruggedized networking modules based on Cisco IOS™ technology. Available in multiple form factors, these products offer an extensive set of routing, security and mobility features ideal for connecting deployed systems to wide-area networks.



PRODUCT	FORM FACTOR	DESCRIPTION	TYPICAL INTERFACES	KEY FEATURES	RUGGED LEVELS*
<a href="#">VPX3-621</a>	3U VPX	Cisco ESR 5921 router with advanced IP services.	2 Gigabit Ethernet (1000BASE-T or 1000BASE-X)	Radio-aware routing, IPSec VPN with Suite B encryption	AC 0, 100 CC 200
<a href="#">XMC-620</a>	XMC	Cisco ESR 5921 router with advanced IP services.	4 Gigabit Ethernet (1000BASE-T or 1000BASE-X)	Radio-aware routing, IPSec VPN with Suite B encryption	AC 0 CC 200

\* See Curtiss-Wright's [Ruggedization Table](#)