



VPX3-683 FireBlade

24x1GbE + 2x10GbE Gigabit Ethernet Switch/Router

- ◆ 3U VPX form factor
- ◆ Fully Managed or Unmanaged
 - CLI (industry standard), Web, SNMP Interfaces
 - Extensive MIB support
- ◆ 24 x 1GbE SerDes ports
 - IEEE 802.3
- ◆ 2 x 10GbE uplink/stacking ports (XAUI)
 - IEEE 802.3ae
- ◆ Rear Transition Module (RTM) with SFPs for 1GbE and Infiniband connectors for 10GbE
 - Supports 1000MB/s SerDes
 - Supports 1000Base-T copper
 - Supports 1000BaseSX optics
 - Supports 10GbE XAUI copper
- ◆ Supports 9.5K Jumbo frames
- ◆ Declassification capability
- ◆ Fast boot with extensive protocols support
- ◆ Management ports
 - Serial RS-232 port for out of band management
 - In-band GbE management support
 - Out of band 10/100 software debug port
- ◆ High performance Layer 2/3+ switching/routing software
 - Wire-speed IPv4/v6 support
 - Extensive IETF RFCs supported
 - Switching, VLANs, Routing, Multicasting, Tunneling
 - Port mirroring, flow control, QoS and traffic shaping using CoS
 - SSH, SSL, Secure memory erase
- ◆ Extensive Built In Test (BIT) support
 - Power-up, Initiated, and Continuous BIT
- ◆ IPMI capable
 - Health Monitoring (voltage, current, temperature sensors)
- ◆ Field upgradeable software
- ◆ Air-cooled and Conduction-cooled versions
- ◆ VITA 48.2, 0.8" pitch (L0, L100, L200)
- ◆ VITA 48 - 2 Level Maintenance support (0.85" pitch)
- ◆ Industry leading technical support
- ◆ Industry leading life-cycle management support

Enabling the vision of Network-centric connectivity, Curtiss-Wright Controls' VPX3-683 FireBlade switch/router provides an accelerated path to 'network ready' architectures that can interoperate seamlessly within the Global Information Grid (GIG).



The VPX3-683 is the world's smallest and densest router that is durable in the harshest environments with standards based 2 Level Maintenance (2LM) support that drastically reduces long term maintenance costs.

Operational as either a fully managed or unmanaged (roadmap) switch/router, the VPX3-683 router can provide substantial advantages to Systems Integrators building Layer 2 or Layer 2/3+ networks. By providing a familiar "industry standard" CLI, the VPX3-683 drastically accelerates time to market by reducing set-up, configuration and maintenance times. In addition special features like 'secure' memory erase, fast boot, and a comprehensive set of RFCs make the VPX3-683 ideal for building transformational Network-Centric systems.

Management interfaces include CLI, SNMP and Web for easy configuration and network management. Complete layer 2/3 software, Quality of Service (QoS), IP multicasting and security is provided for a feature rich solution that can support the simplest to the most complex network requirements.

The VPX3-683 scales to meet small to large platform requirements through flexible software and port configuration capability. GbE ports can be disabled to achieve low power requirements. Two 10GbE ports enable switch-to-switch stacking (48 ports), dual-redundant networks (fail-over), or for architecting high-performance 10GB/s network backbones. Embedded backplane routing can be achieved with SerDes GbE and 10GbE XAUI. Other standards such as 1000Base-T, 1000BaseSX, etc can be achieved via the Rear Transition Module (RTM).

Learn More

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Specifications

Power

(Managed 24xGbE + 2x10GbE)

- ♦ Typ: 20 Watts
- ♦ Max: 24 Watts

Dimensions

(3U VPX single slot)

- ♦ Height: 160mm
- ♦ Depth: 100mm
- ♦ PWB Thickness: 2.08mm

Weight

- ♦ VPX3-683-Air-cooled: 1.4lbs.
- ♦ VPX3-683-Conduction-cooled: 1.6lbs.
- ♦ VPX3-683-2LM: 1.7lbs.

Ordering Information

- ♦ VPX3-683-A01026-M3 – 24x1GbE SerDes + 2x10GbE XAUI, Managed, SNMP, CLI, Web, Layer 2/3, IPv4/v6, Qos/CoS, Multicast, Declass, Security, 0.8" pitch, L0 Air-cooled.
- ♦ VPX3-683-A11026-M3 – 24x1GbE SerDes + 2x10GbE XAUI, Managed, SNMP, CLI, Web, Layer 2/3, IPv4/v6, Qos/CoS, Multicast, Declass, Security, 0.8" pitch, L100 Air-cooled.
- ♦ VPX3-683-C21026-M5 – 24x1GbE SerDes + 2x10GbE XAUI, Managed, SNMP, CLI, Web, Layer 2/3, IPv4/v6, Qos/CoS, Multicast, Declass, Security, 0.8" pitch, L200 Air-cooled.

Note: Check with Factory for 2LM versions.

- ♦ RTM3-683-0026 – 3U VPX Rear Transition Module. Brings out 24 SFP ports for configurable 1GbE and 2 Infiniband style connectors for 10GbE
- ♦ MNT-683-0000 – Yearly software maintenance support

Figure 1: VPX3-683 Hardware Block Diagram

