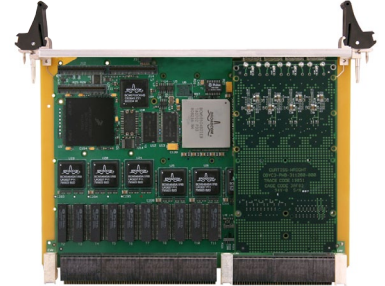


VPX6-684 FireBlade

- ◆ 6U VPX Switch/Router
- ◆ Fully Managed or Unmanaged
 - CLI ('CISCO-like'), Web, SNMP Interfaces
 - Extensive MIB support
- ◆ 20/24 auto-negotiating ports (10/100/1000Base-T)
 - Additional 4x 10GbE uplink/stacking ports (XAUI)
 - Optional four Optical, GbE, or Fast Ethernet ports
 - Optical expansion port
- ◆ High-performance Layer 2/3+ switching/routing software
 - Extensive IETF RFCs supported
 - Switching, VLANs, Routing, IP Multicast, Tunneling, QoS
 - SSH, SSL, Secure memory erase
 - Wire-speed IPv4/v6 support
- ◆ Extensive Built-in Test (BIT) support
 - Power-up, Initiated, and Continuous BIT
- ◆ Enhanced security with PMC-110 CryptoNet™
 - Statefull Firewall (ICSA certified)
 - Network Address Translation (NAT)
 - Access Control List (ACL) filtering
 - Encryption/Decryption/Authentication
 - VPN with secure tunneling (IPSec/L2TP)
 - Intrusion detection and content filtering
- ◆ IPMI capable (roadmap)
 - Health Monitoring (voltage, current, temperature)
- ◆ VITA 46 support
- ◆ VITA 48 support for 2 Level Maintenance (2LM)
- ◆ Air-cooled and conduction-cooled versions
- ◆ ESD protection
- ◆ Industry leading technical and life-cycle management support

Operational as either a fully managed or unmanaged switch/router, the VPX6-684 can provide substantial advantages to developers building Layer 2 or Layer 2/3+ networks. By providing a familiar "industry standard" CLI, the VPX6-684 drastically accelerates time to market by reducing set-up, configuration and maintenance times.



The VPX6-684 is a VITA 46/48 solution that scales to meet small to large platform requirements through flexible 20/24 port options. The last four ports can optionally be Fast Ethernet, GbE, or optical providing maximum port flexibility. Four 10GbE ports enable switch-to-switch cascading (48 ports), dual-redundant networks (fail-over), or for architecting high-performance box-to-box 10 GbE network backbones. For conduction-cooled environments, optical ports can easily be routed to the back within minimal tolerances and without infringing on adjacent slots. VPX6-684 also supports VITA 48 to enable 2 Level Maintenance (2LM) which can drastically reduce field servicing costs.

Both managed and unmanaged versions of the VPX6-684 are supported. 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 VPX6-684 can also act as a Unified Threat Management (UTM) router that is capable of strong perimeter defense through an ICSA certified firewall. Additional security features include Access Control List (ACL) filtering, Network Address Translation (NAT), Virtual Private Network (VPN) with tunneling support (IPSec/L2TP), IPv6 ESP/AH payloads, and Encryption/Decryption/Authentication support.

A Rear Transition Module (RTM) enables easy connectivity through RJ-45 connectors in the lab while Curtiss-Wright Controls Embedded Computing's software maintenance program (MNT) provides the latest software updates throughout the VPX6-684's life cycle.



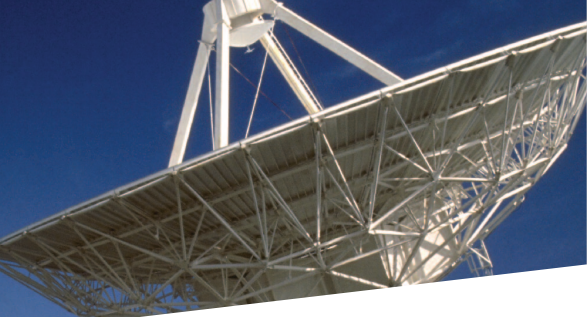
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ABOVE & BEYOND



VPX6-684 FireBlade

Specifications

Power

- ♦ Managed 24x GbE + 4x 10GbE
 - Typ: 42W
 - Max: 50W
- ♦ CryptoNet – Unified Threat Management
 - Typ: 45W
 - Max: 55W

Dimensions

- ♦ VITA 46 single-slot
 - Height: 233.2 mm (9.181 in)
 - Depth: 159.8 mm (6.293 in)

Table 1: Ordering Information

Ordering Number Code: VPX6-684-uvwxxy-zzz		
Code	Part Number	Custom Part
VPX6: VITA 46 6U form factor	-	-
684: Model number	-	-
u: Cooling Method	A	Air-cooled
	C	Conduction-cooled
v: Temperature Range	0	0° to 50°C
	1	-40° to 71°C
	2	-40° to 85°C
	9	Customized temperature range
w: Mechanical Format	1	0.8" pitch, no 2-level maintenance support
	2	0.85" pitch, no 2-level maintenance support
	3	0.85" pitch, 2-level maintenance support
	4	1.0" pitch, no 2-level maintenance support
	9	Customized mechanical format
x:	0	No front connections
	2	4x GbE – out front
	3	4x SX Fiber Optic - out front – optic strands can be routed to back
yy	20	20x GbE copper ports
	24	24x GbE copper ports
	28	24x GbE copper ports + 4x 10G ports
zzz:	U5	Unmanaged BCM 56xxx
	M5	Managed BCM 56xxx
	M5S	Managed BCM 56xxx + Security

Weight

- ♦ Basecard (without PMC)
 - Air-cooled: 785g (1.7 lbs)
 - Conduction-cooled: 895g (2.0 lbs)
- ♦ Basecard (with Security PMC)
 - Air-cooled: 893g (1.9 lbs)
 - Conduction-cooled: 1003g (2.2 lbs)

Ordering Information

- ♦ Recommended Parts:
 - VPX6-684-A01028-M5: (AC, Managed, 24x 1GbE, 4x 10GbE)
 - VPX6-684-A01028-M5S: (AC, Managed, 24x 1GbE, 4x 10GbE + CryptoNet)
- ♦ Accessories:
 - RTM – 684 – 0028: (part numbering for the RTM accessory)
 - LED – 684 – 0028: (part number for LED plate accessory required only for conduction-cooled versions)
 - CBL – 684 – 0000: (part number for 10G XAUI connector)

Figure 1: VPX6-684 Hardware Block Diagram

