



# SMS-682 SwitchBox II

## Secure Standalone Gigabit Ethernet Switch/Router



- ♦ Fully managed or unmanaged standalone switch/router in a rugged enclosure
  - CLI ('CISCO-like'), Web, SNMP interfaces
  - Extensive MIBs support
- ♦ MIL-STD-38999 connectors
- ♦ Up to 20/24 auto-negotiating 1GbE ports
  - 10/100/1000Base-T
- ♦ Up to two 10GbE uplink/cascading ports
  - XAUI
- ♦ 10/100 Debug port, 2x EIA-232 serial ports
- ♦ 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)
- ♦ Industry leading technical and lifecycle management support
- ♦ Operating ambient temperature
  - Natural convection-cooled chassis -40° to 55°C
  - 0.04g2/Hz vibration per MIL-STD-810E
  - 40G Shock per MIL-STD-810E
  - Wide 18V to 40V input range with 50V transient per MIL-STD-704E
  - Meets MIL-STD-461E for various EMC requirements

The Curtiss-Wright Controls Embedded Computing SMS-682 SwitchBox II Module provides up to 26 Gigabit Ethernet ports enclosed in a single-slot rugged chassis. There are 24 10/100/1000MB/s ports and two 10GB/s XAUI ports all brought out to rugged MIL-STD-38999 connectors.

Enabling the vision of Network Centric operations and extending the reach of transformational networks, the SMS-682 is a standalone, managed, rugged Gigabit Ethernet multi-layer switch, ideally suited for building Intra-Platform Networks (IPNs) for air, land, and sea applications. It enables fast, reliable forwarding (switching and routing) of control, management and data packets.

The SMS-682 can be used to connect multiple chassis, cards, or even processors within platform networks. Using star, dual star, mesh and hybrid network topologies, it provides a flexible cost effective solution that can be used to architect reliable backbone communications infrastructure, for both current and future networked platforms. System integrators can reduce development costs and Time-to-Market (TTM) by simply connecting the ready-to-deploy SwitchBox II to their subsystem, and then focus on the optimal partitioning and segmentation of their application's network.

Allowing system integrators to develop and deploy network-ready architectures, the SMS-682 SwitchBox II provides a completely integrated and unified management, control, and data plane solution for wire-speed performance of switched Gigabit Ethernet traffic.

**Learn More**

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## SMS-682 SwitchBox II

Table 1: Specifications

Dimensions	11.4" x 9.4" x 3.75" (LxWxH)
Weight	14.5 lbs
Power	50W

Table 2: Ordering Information

Part Number	Description
SMS-682-2020-M5	20x 1GbE ports (embedded VME-682 FireBlade Router with Layer2/3 software), MIL-STD-38999 connectors, power supply, standalone enclosure
SMS-682-2226-M5	24x 1GbE ports + 2x 10GbE ports (embedded VME-682 FireBlade Router with Layer2/3 software), MIL-STD-38999 connectors, power supply, standalone enclosure
SMS-682-2226-M5S	24x 1GbE ports + 2x 10GbE ports (embedded VME-682 FireBlade Router with Layer2/3 software), PMC-110 CryptoNet with Enhanced Security (Firewall, NAT, Encryption/Decryption/Authentication) MIL-STD-38999 connectors, power supply, standalone enclosure
CBL-SMS-682-38999	SwitchBox II Cable Kit: Includes two MIL-STD-38999 breakout cables with 12x RJ45 interfaces each and a serial cable with 2x EIA-232 interfaces (DB9) + 1x 10/100Base-TX debug port (RJ45)

Figure 1: SMS-682 SwitchBox II Block Diagram

