SVME/DMV-680
SwitchBlade

Providing a flexible 12/20/24 port options, various types of port combinations can be achieved including Gigabit Ethernet (GbE), fast Ethernet, and fiber-optics (SX or LX) within a single VME slot.

Two SVME/DMV-680 SwitchBlades can also be configured to handle systems that require redundancy and switchover capabilities.

Enabling the vision of inter-networked military and aerospace systems, Curtiss-Wright Controls Embedded Computing's SVME/DMV-680 SwitchBlade provides systems integrators with a fast and powerful way to interconnect chassis, cards and even CPUs through Gigabit Ethernet links. Operating at wire-speed, Gigabit Ethernet switching is ideal for transferring control and data packets in advanced military platforms (air, land and sea based vehicles).

SVME/DMV-680 comes with a powerful set of management interfaces including CLI, SNMP and Web for easy configuration and network management. Additionally, complete layer 2 switching, layer 3 routing, Quality of Service (QoS), IP multicasting and security software provide a feature rich switching solution that can support the simplest to the most complex network connections.
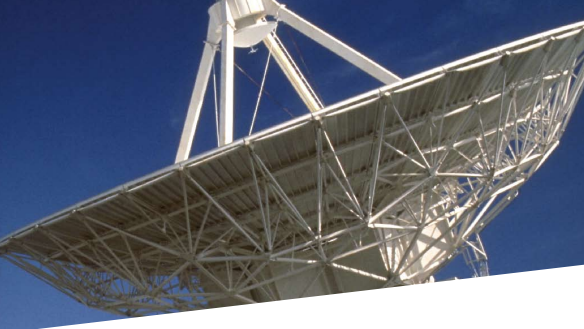
CURTISS WRIGHT *Controls*
Embedded Computing

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SVME/DMV-680

Features

- Fully managed, intelligent multi-layer GbE switch with 6U VME64 form factor
- Up to twenty-four 10/100/1000 MB/s non-blocking auto-negotiating ports operating at wire-speed
- Flexible port combinations with the RazorBlade port expansion module (4GbE (to front), 4 Fiber-Optic (to front) or 4 fast Ethernet (to rear)
- Dual Broadcom BCM5690 managed switch devices with a Motorola MPC8245 control and management processor
- 64MB SDRAM with ECC, 4MB boot Flash, 32MB configuration Flash
- Out of band backplane management and debug port (10/100 Ethernet), JTAG support, and serial interface
- Fully integrated layer 2 switching, layer 3 routing, Quality of Service (QoS), IP multicast, security and network management
- Intuitive Command Line Interface (CLI), web interface and SNMP interface for easy configuration and network management
- Air-cooled and conduction-cooled versions
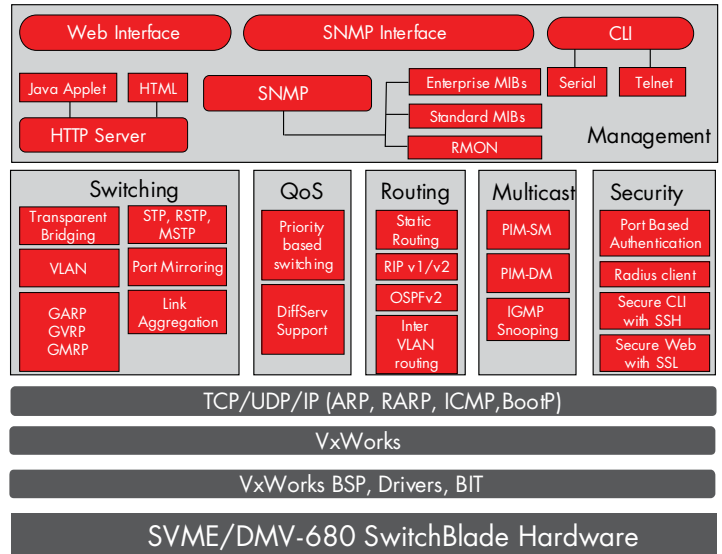
Figure 1: SVME/DMV-680 Software Block Diagram

Figure 2: SVME/DMV-680 Hardware Block Diagram