Cisco Media Experience Engine (MXE) 5600 Shelf Manager Module

Product Overview

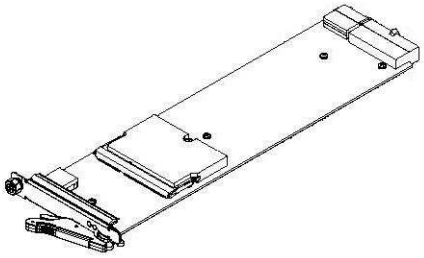
The Cisco® Media Processing category, which includes the Cisco Media Experience Engine Family of products, is a new class of devices designed to expand the reach and usefulness of video as a collaboration and communications tool. As a part of the Cisco any-to-any vision for network-based media processing, the Cisco Media Experience Engine Family provides a suite of media adaptation and customization features that allow Cisco and our partners and systems integrators to develop a broad range of media-oriented applications.

The Cisco Media Experience Engine (MXE) 5600 is a modular media-processing platform that combines advanced media-processing features with high performance and scalability to extend the reach of collaboration.

The Cisco MXE 5600 Shelf Manager Module (Figure 1) monitors and controls the low-level aspects of the cards, modules, and other field replaceable units in the Cisco MXE 5600 chassis. These functions include temperature monitoring, fan-speed control, alarm I/O, and power management.

You can configure the shelf manager modules in a redundant pair for high availability. When configured in a redundant pair, the modules are fully hot-swappable, helping ensure no system interruption in case one module requires service. The modules are fitted at the top front of the Cisco MXE 5600 chassis, allowing installation and removal without disturbing the network cabling.

Figure 1. Cisco MXE 5600 Shelf Manager Module



Features and Benefits

The Cisco MXE 5600 Shelf Manager Module provides full system health and status monitoring and reporting capabilities for the Cisco MXE 5600. The module is used to configure, control, and monitor the Cisco MXE 5600 hardware. It recognizes various conditions that can arise in the system (such as faults, alarms, module insertions or extractions, temperature, or power supply excursions) and takes appropriate action to diagnose, isolate, report, and recover from them.

The Cisco MXE 5600 Shelf Manager Module delivers a comprehensive set of features to address the needs of the most demanding data-center deployments.

- Continuous system operation:
  - Active and standby shelf manager modules
  - Segmented and redundant out-of-band provisioning and management paths
  - Virtualization of the management plane
  - Integrated diagnostics
- Superior operational efficiency
  - System status LEDs for simplified operations
  - Dedicated out-of-band management processor for “lights-out” management

Note: Product features are subject to change. An updated data sheet showing actual features will be released after first customer shipment.

Table 1 lists the features and benefits of the Cisco MXE 5600 Shelf Manager Module.

Table 1. Features and Benefits of Cisco MXE 5600 Shelf Manager Module

Feature	Benefit
High availability	Two shelf manager modules operate in active and standby modes with stateful module failover to enhance total system availability.
Front-panel LEDs	LEDs provide visible indication of the shelf-manager-module ID and active or standby status.
Intelligent Platform Management Interface (IPMI) standards compliant	The IPMI provides a full set of system status and health information.

Cisco MXE 5600 Shelf Manager Module

The Cisco MXE 5600 Shelf Manager Module communicates with outside entities via Remote Management and Control Protocol (RMCP), HTTP, and Simple Network Management Protocol (SNMP) over an Ethernet network, while communicating with components inside the Cisco MXE 5600 through the Intelligent Platform Management Bus (IPMB).

A series of LEDs at the top of the chassis and on each module provides a clear indication of the status of the major system components. These LEDs report the power supply, fan, fabric, supervisor, and media-processing module status. Additional alarm relay outputs are provided for major, minor, critical, and power alarms.

You can install two shelf manager modules in a redundant configuration in a Cisco MXE 5600 system for high availability with active standby redundancy, where one shelf manager module is operationally active and the standby device serves as a hot backup.

Product Specifications

Table 2 lists the specifications for the Cisco MXE 5600 Shelf Manager Module.

Table 2. Product Specifications

Item	Specification
Shelf manager module	Cisco MXE 5600 Shelf Manager Module
Chassis compatibility	Cisco MXE 5600 Chassis
Cards, ports, and slots	Each Cisco MXE 5600 Shelf Manager Module occupies one shelf-manager-module slot in Cisco MXE 5600 chassis
Interfaces	IPMB internal to other Cisco MXE 5600 components
Mean time between failures (MTBF)	More than 630,000 hours
Network management	With SNMP Version 3, 2c, or 1
Environmental conditions	Ambient operating temperature: 23 to 104ºF (–5 to 40ºC) Ambient nonoperating temperature: –40 to 158ºF (–40 to 70ºC)
Relative humidity	Ambient (noncondensing) operating : 10 to 85% Ambient (noncondensing) nonoperating and storage: Maximum 95%
Regulatory compliance	The Cisco MXE 5600 meets both safety and EMC requirements for the following countries and areas at first availability: Australia and New Zealand Canada European Union Japan United States The Cisco MXE 5600 is intended for worldwide distribution to all Cisco theaters. Other countries and areas will be supported following first availability. Please request updated information from Cisco.

Software Requirements

The Cisco MXE 5600 Shelf Manager Module is supported in the Cisco MXE Media Processing Platform Software Release 1.0.

Warranty Information

For warranty information about the Cisco MXE 5600 Shelf Manager Module, please visit the Product Warranties page at Cisco.com.

Ordering Information

The Cisco Media Experience Engine (MXE) 5600 is targeted to be orderable by early 2010.

Cisco Services

Cisco and our partners provide a broad portfolio of intelligent, personalized services and support that can help you realize the full value of your video investment, increase business agility and network availability. This portfolio of services drives business transformation through a network-based collaboration platform that enables business to collaborate anywhere, anytime. For more information about these services, visit: http://www.cisco.com/go/services/digitalmedia.

For More Information

For more information about the Cisco MXE 5600, visit http://www.cisco.com/go/mxe or contact your local Cisco account representative.

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