



## Cisco SLM2008 8-Port Gigabit Smart Switch: PD/AC Power Cisco Small Business Smart Switches

Cost-Effective Gigabit Switching with Entry-Level Management

### Highlights

- 8 Gigabit Ethernet ports; ideal for small workgroups moving large files
- Can obtain power from a standard 802.3af PoE switch or from an external AC power outlet
- Entry-level management at a cost-effective price point
- Easy-to-use web browser interface makes installation quick and easy

**Figure 1.** Cisco SLM2008 8-Port Gigabit Smart Switch



### Product Overview

Cisco® Small Business Smart Switches deliver cost-effective switching solutions that are ideal for small businesses or workgroups within larger organizations. These high-speed switches offer entry-level management without the cost and complexity of a full Layer 2 managed switch.

The Cisco SLM2008 8-Port Gigabit Smart Switch (Figure 1) is ideal for conference rooms, labs, shipping/receiving departments or in marketing, design, or audio/visual workgroups. The eight 10/100/1000-Mbps (Gigabit Ethernet) ports enable companies to link to other Gigabit devices on the network (servers, workstations, and network storage) to quickly move bandwidth-intensive files while still supporting 10/100-Mbps clients.

The Cisco SLM2008 supports the IEEE 802.3af standard for Power over Ethernet (PoE) for obtaining its power over a designated powered device (PD) switch port or from an external AC power adapter. This gives companies the option to install the switch in places where a power outlet may not be present, such as in ceilings and walls.

The Cisco SLM2008 is able to secure the network through IEEE 802.1Q VLANs and IEEE 802.1X port authentication. For environments where IP multicast applications are used, the switch is capable of limiting the traffic to only the ports that have requested that traffic, with support of Internet Group Management Protocol (IGMP) snooping. Additional quality-of-service (QoS) capabilities, such as IEEE 802.1p, differentiated services code point (DSCP), and four hardware

queues, make it possible to maintain good quality for real-time applications such as voice and video. The Cisco SLM2008 offers an easy-to-use browser interface for managing and configuring the features, making it ideal for small businesses without an IT staff or that have minimal technical expertise.

## Features

- Eight 10/100/1000 Gigabit Ethernet ports
- 16 Gbps, nonblocking, store-and-forward switching capacity
- Supports IEEE 802.3af PoE-PD on port 1 as an optional power supply
- Simplified QoS management using 802.1p and DSCP traffic prioritization specifications
- WebSmart management enables configuration and monitoring from a standard web browser
- 802.1Q-based VLANs enable segmentation of networks for improved performance and security
- Port-level security via 802.1X authentication
- Increased bandwidth and added link redundancy with Link Aggregation Control Protocol (LACP)
- Storm control on multicast and broadcast traffic
- Many-to-one port mirroring for noninvasive monitoring of switch traffic
- Jumbo frame support (9 KB)
- Support for simple interface counters

## Specifications

Table 1 gives the specifications, package contents, and minimum requirements for the Cisco SLM2008 8-Port Gigabit Smart Switch.

**Table 1.** Specifications for the Cisco SLM2008 8-Port Gigabit Smart Switch

Specifications	
<b>Ports</b>	<ul style="list-style-type: none"> <li>• 8 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T</li> <li>• Auto medium dependent interface (MDI) and MDI crossover (MDI-X)</li> <li>• Auto negotiate/manual setting</li> </ul>
<b>Buttons</b>	Reset
<b>Cabling type</b>	Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX, UTP Category 5e or better for 1000BASE-T
<b>LEDs</b>	Link/Act, System
<b>PoE</b>	
<ul style="list-style-type: none"> <li>• 802.3af PoE-PD compatible on port 1</li> <li>• Supply system power without an external power adapter</li> </ul>	
<b>Performance</b>	
<b>Switching capacity</b>	16 Gbps, nonblocking
<b>Forwarding rate</b>	11.9 Mpps wire-speed performance
<b>Layer 2</b>	
<b>MAC table size</b>	8000
<b>Number of VLANs</b>	16 active VLANs (4096 range)
<b>VLAN</b>	Port-based and 802.1Q tag-based VLANs
<b>Head-of-line (HOL) blocking</b>	HOL blocking prevention

<b>Management</b>	
<b>Web user interface</b>	Built-in web UI for easy browser-based configuration
<b>Firmware upgrade</b>	Web browser upgrade (HTTP)
<b>Port mirroring</b>	Traffic on a port can be mirrored to another port for analysis with a network analyzer
<b>Other management</b>	
<ul style="list-style-type: none"> <li>• RADIUS</li> <li>• Port mirroring</li> <li>• Dynamic Host Configuration Protocol (DHCP) client</li> <li>• Ping</li> </ul>	
<b>Security</b>	
<b>IEEE 802.1x</b>	802.1x - RADIUS authentication, MD5 encryption
<b>Availability</b>	
<b>Link aggregation</b>	<ul style="list-style-type: none"> <li>• Link aggregation using IEEE 802.3ad LACP</li> <li>• Up to 8 ports in up to 2 groups</li> </ul>
<b>Storm control</b>	Broadcast and multicast
<b>Spanning Tree</b>	IEEE 802.1D Spanning Tree
<b>IGMP snooping</b>	IGMP (v1/v2) snooping limits bandwidth-intensive video traffic to only the requestors Supports 16 multicast groups
<b>QoS</b>	
<b>Priority levels</b>	4 hardware queues
<b>Scheduling</b>	Priority queuing and weighted round-robin (WRR)
<b>Class of service</b>	<ul style="list-style-type: none"> <li>• Port based</li> <li>• 802.1p VLAN priority based</li> <li>• IPv4/v6 IP DSCP based</li> </ul>
<b>Standards</b>	
<ul style="list-style-type: none"> <li>• 802.3 10BASE-T Ethernet, 802.3u 100BASE-TX Fast Ethernet</li> <li>• 802.3ab 1000BASE-T Gigabit Ethernet, 802.3z Gigabit Ethernet</li> <li>• 802.3x flow control, 802.3ad LACP, 802.3af PoE, 802.1D Spanning Tree Protocol</li> <li>• 802.1Q/p VLAN, 802.1X port access authentication</li> </ul>	
<b>Environmental</b>	
<b>Dimensions</b> <b>W x H x D</b>	5.12 x 1.12 x 5.12 in. (130 x 28.5 x 130 mm)
<b>Weight</b>	0.91 lb (0.42 kg)
<b>Power</b>	External AC power adapter and IEEE 802.3af compatible PoE-PD
<b>Certification</b>	FCC Part 15 Class B, CE Class A, UL, cUL, CE Mark, CB
<b>Operating temperature</b>	32° to 104°F (0° to 40°C)
<b>Storage temperature</b>	-4° to 158°F (-20° to 70°C)
<b>Operating humidity</b>	10% to 90%
<b>Storage humidity</b>	10% to 95%
<b>Package Contents</b>	
<ul style="list-style-type: none"> <li>• Cisco SLM2008 8-Port Gigabit Smart Switch</li> <li>• AC power adapter with power cord</li> <li>• CD with user guide in PDF format</li> <li>• Online registration card</li> </ul>	
<b>Minimum Requirements</b>	
<ul style="list-style-type: none"> <li>• Web-based utility: web browser - Microsoft Internet Explorer (version 6.0 or later), Firefox (version 2.0.0.1 or later)</li> <li>• Category 5 Ethernet network cable</li> <li>• Switch/router with PoE support or PoE injector when used with PoE</li> <li>• Operating system: Windows XP or later</li> </ul>	
<b>Product Warranty</b>	

5-year limited hardware warranty with return to factory replacement and 90-day limited software warranty

## Cisco Limited Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with a 5-year limited hardware warranty with return to factory replacement and a 90-day limited software warranty. In addition, Cisco offers software application updates for bug fixes and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to:

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## For More Information

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