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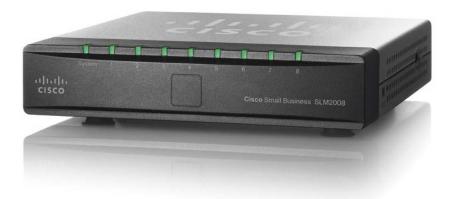
For
Small
Business

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
- Limited lifetime warranty

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

Feature	Description
Specifications	
Ports	• 8 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T • Auto medium dependent interface (MDI) and MDI crossover (MDI-X) • Auto negotiate/manual setting
Buttons	Reset
Cabling type	Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX, UTP Category 5e or better for 1000BASE-T
LEDs	Link/Act, System
PoE	
• 802.3af PoE-PD compatible on port 1 • Supply system power without an external power adapter	
Performance	
Switching capacity	16 Gbps, nonblocking
Forwarding rate	11.9 Mpps wire-speed performance
Layer 2	
MAC table size	8000
Number of VLANs	16 active VLANs (4096 range)
VLAN	Port-based and 802.1Q tag-based VLANs
Head-of-line (HOL) blocking	HOL blocking prevention
Management	
Web user interface	Built-in web UI for easy browser-based configuration

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Feature	Description
Firmware upgrade	Web browser upgrade (HTTP)
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer
Other management	

- RADIUS
- Port mirroring
- Dynamic Host Configuration Protocol (DHCP) client
- Ping

Security	
IEEE 802.1x	802.1x – RADIUS authentication, MD5 encryption
Availability	
Link aggregation	• Link aggregation using IEEE 802.3ad LACP • Up to 8 ports in up to 2 groups
Storm control	Broadcast and multicast
Spanning Tree	IEEE 802.1D Spanning Tree
IGMP snooping	IGMP (v1/v2) snooping limits bandwidth-intensive video traffic to only the requestors Supports 16 multicast groups
QoS	
Priority levels	4 hardware queues
Scheduling	Priority queuing and weighted round-robin (WRR)
Class of service	• Port based • 802.1p VLAN priority based • IPv4/v6 IP DSCP based
Standards	

- 802.3 10BASE-T Ethernet, 802.3u 100BASE-TX Fast Ethernet
- 802.3ab 1000BASE-T Gigabit Ethernet, 802.3z Gigabit Ethernet
- 802.3x flow control, 802.3ad LACP, 802.3af PoE, 802.1D Spanning Tree Protocol
- 802.1Q/p VLAN, 802.1X port access authentication

Environmental	
Dimensions W x H x D	5.12 x 1.12 x 5.12 in. (130 x 28.5 x 130 mm)
Weight	0.91 lb (0.42 kg)
Power	External AC power adapter and IEEE 802.3af compatible PoE-PD
Certification	FCC Part 15 Class B, CE Class A, UL, cUL, CE Mark, CB
Operating temperature	32°to 104℉ (0°to 40℃)
Storage temperature	–4°to 158℉ (–20°to 70℃)
Operating humidity	10% to 90%
Storage humidity	10% to 95%
Package Contents	

- Cisco SLM2008 8-Port Gigabit Smart Switch
- AC power adapter with power cord
- CD with user guide in PDF format
- Online registration card

Minimum Requirements	

- Web-based utility: web browser – Microsoft Internet Explorer (version 6.0 or later), Firefox (version 2.0.0.1 or later)
- Category 5 Ethernet network cable
- Switch/router with PoE support or PoE injector when used with PoE
- Operating system: Windows XP or later

Product Warranty	

Limited lifetime warranty with return to factory replacement, one year telephone support and software fixes for the warranty term.

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Service & Support

Cisco Small Business switches are backed by the Cisco Small Business Support Service, which provides affordable peace-of-mind coverage. This subscription-based service helps you protect your investment and derive maximum value from Cisco Small Business products. Delivered by Cisco and backed by your trusted partner, this comprehensive service includes software updates, access to the Cisco Small Business Support Center, and expedited hardware replacement.

Cisco Small Business products are supported by professionals in Cisco Small Business Support Center locations worldwide who are specifically trained to understand your needs. The Cisco Small Business Support Community, an online forum, enables you to collaborate with your peers and reach Cisco technical experts for support information.

Cisco Limited Lifetime Hardware Warranty

This Cisco Small Business product offers a limited lifetime hardware warranty with return to factory replacement and a 1-year limited warranty for fans and power supplies. In addition, Cisco offers telephone technical support at no charge for the first 12 months following the date of purchase and software bug fixes for the warranty term. To download software updates, go to: http://www.cisco.com/cisco/web/download/index.html.

Product warranty terms and other information applicable to Cisco products are available at http://www.cisco.com/go/warranty.

For More Information

For more information on Cisco Small Business products and solutions, visit: http://www.cisco.com/smallbusiness.

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