



SFE1000P

Linksys One-Ready, Secure, Reliable, Managed Ethernet Switching with PoE

The SFE1000P is an 8-port fully-managed 10/100 Ethernet switch with 2 Gigabit copper or optical interfaces for connecting to a core switch. It is Linksys One-Ready, allowing it to be used in both Linksys One and non-Linksys One networks. Its intelligence, small size and fan-less design make it ideal for a small office, conference room, or training room.

For wireless or Voice Over IP (VoIP) deployments, the SFE1000P supports the IEEE 802.3af standard for Power over Ethernet (PoE). With automatic load sensing, the power control circuitry automatically detects PoE on end devices before providing power. (PoE is limited to the fixed 10/100 Base-T/TX ports.) The unit can provide maximum output power of up to 15.4W per PoE port on 4 ports, or up to 7.5W per PoE port on 8 ports simultaneously. The unit provides independent overload and short-circuit protection for each port. LED indicators indicate the power status for each PoE port.

With the enhanced quality of service (QoS) and traffic-management features provided by the SFE1000P, voice and video data can be prioritized, ensuring clear and reliable voice communications. An intuitive, secure management interface enables you to easily set up the QoS parameters, along with the other advanced security and performance features, resulting in an optimized, more secure network.

Linksys One integrates data networking and low-cost VoIP service with applications and other business services into one simple solution for small businesses. Because the SFE1000P is Linksys One-Ready, it can be seamlessly integrated into a Linksys One data or data/voice network. Linksys One technology is automatic and self-configuring. Once connected, a Linksys One Service Router will discover the SFE1000P, automatically configure it, and make it available to other users on the network.

Provides IEEE 802.3af PoE to IP phones, cameras, or access points

Dual gigabit uplinks provide increased bandwidth and redundancy

Provides maximum security and traffic control with policing, shaping, access control lists, and QoS

Linksys One-Ready—simple, automated installation with Linksys One services routers present

PRODUCT DATA

8-Port 10/100 Ethernet Switch with PoE



Model: SFE1000P

BUSINESS SERIES



Features

- 8 - 10/100 switched RJ-45 ports deliver up to 200 Mbps of throughput per port
- 2 - 10/100/1000 switched RJ-45/Mini-GBIC combo ports
- PoE on the 10/100 ports supply up to the IEEE 802.3af maximum—15.4W per port for up to 4 ports, or 7.5W per port on 8 ports
- 5.6 Gbps non-blocking, store-and-forward switching mechanism
- Simplified QoS management enabled by queuing techniques using 802.1p, Diffserv or ToS traffic prioritization specifications
- WebView management allows switch configuration and monitoring using a standard web browser
- Secure remote management of the switch via SSH and SSL secure channel network protocols
- 802.1q-based VLANs enable segmentation of networks for improved performance and security
- Private VLAN edge simplifies network isolation for guest connections or autonomous networks
- Automatic configuration of VLANs across multiple switches through GVRP/GARP
- Automatic MDI/MDIX detection support

PRODUCT DATA

BUSINESS SERIES

8-Port 10/100 Ethernet Switch with PoE

Specifications

Model	SFE1000P
Ports	8 RJ-45 connectors for 10BASE-T and 100BASE-TX 2 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T with 2 SFP slots
	Console port
	Auto MDI/MDI-X
	Auto-negotiate/Manual setting
Buttons	None
Cabling Type	UTP CAT 5 or better for 10BASE-T/100BASE-TX UTP CAT 5e or better for 1000BASE-T
LEDs	10/100 Link/Act, PoE, 2 Giga Link/Act, Speed, System

Power over Ethernet

802.3af Compliant	Supplies up to IEEE standard maximum of 15.4W on 4 10/100 ports or up to 7.5W on 8 10/100 ports
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Performance

Switching Capacity	5.6 Gb non-blocking
Forwarding Rate	4.17 Mpps wire-speed performance

Layer 2

MAC Table Size	8K
Number of VLANs	256 active VLANs (4096 range)
VLAN	Port-based and 802.1q tag-based VLANs; Management VLAN
HOL Blocking	Head-of-line blocking prevention

Management

Web User Interface	Built-in web user interface for easy browser-based configuration (HTTP/HTTPS)
SNMP	SNMP version 1, 2c, and 3 with support for traps
SNMP MIBs	RFC1213 MIB-2, RFC2863 Interface MIB, RFC2665 Ether-like MIB, RFC1493 Bridge MIB, RFC2674 Extended Bridge MIB (P-bridge, Q-bridge), RFC2819 RMON MIB (groups 1,2,3,9 only), RFC2737 Entity MIB, RFC 2618 RADIUS Client MIB, RFC 1215 Traps, and Private PoE MIB
Remote Monitoring (RMON)	Embedded RMON software agent supports four RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis)
Firmware Upgrade	Web browser upgrade (HTTP) and TFTP
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe.
Other Management	Traceroute Secure Socket Layer (SSL) Secure Shell (SSH) RADIUS SSL security for web user interface DHCP client BootP SNTP Xmodem upgrade Cable diagnostics PING Telnet client (SSH secure support)

Security

IEEE 802.1x	802.1x - RADIUS authentication, MD5 encryption
Access Control Lists (ACLs)	Drop or rate limit based on source and destination MAC or IP address, protocol, TOS/DSCP, port, VLAN, and Ethertype

Availability

Link Aggregation	Using IEEE 802.3ad LACP, up to 8 ports in up to 8 groups
Storm Control	Broadcast, multicast and unknown unicast
Spanning Tree	IEEE 802.1D Spanning Tree, IEEE 802.1w Rapid Spanning Tree, and IEEE 802.1s Multiple Spanning Tree

Features

- User/Network port-level security via 802.1x authentication and MAC-based filtering
- Increased bandwidth (up to 8x) and link redundancy with Link Aggregation Control Protocol (LACP)
- Enhanced rate-limiting capabilities, including back pressure to control the rate of data flow into and out of a port
- Provides multicast, broadcast, and flood control
- Port mirroring for noninvasive monitoring of switch traffic
- Jumbo frame support - up to 1632 bytes
- Supports SNMP v1, v2c, and v3
- Fully rack-mountable using included rack-mounting hardware

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IGMP (v1/v2) Snooping

Provides for fast client joins and leaves of multicast streams and limits bandwidth-intensive video traffic to only the requestors
Supports 256 multicast groups

Quality of Service

Priority Levels
Scheduling
Class of Service

4 hardware queues
Priority queuing and weighted round robin (WRR)
Port-based
802.1p VLAN priority-based
IPv4/v6 IP Precedence/TOS/DSCP-based
TCP/UDP port-based
Diffserv
Classification and Re-marking ACLs
Ingress policer
Egress rate control

Rate Limiting

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 STP, 802.1Q/p VLAN, 802.1w Rapid STP, 802.1s Multiple STP, 802.1x Port Access Authentication

Environmental

Dimensions 12.01" x 1.73" x 6.69" (305 x 44 x 170 mm)
Weight 3.02 lb (1.37 kg)
Power External AC power adapter
Certification FCC Part15 Class A, CE Class A, UL, cUL, CE mark, CB
Operating Temp. 32 to 104°F (0 to 40°C)
Storage Temp. -4 to 158°F (-20 to 70°C)
Operating Humidity 10 to 90%, Non-condensing
Storage Humidity 10 to 95%, Non-condensing

Package Contents

- One SFE1000P with 8 10/100 Base-T and 2 Gig combo ports with SFP or RJ-45
- One AC power adapter with power cord
- Two rack-mounting kits with 8 screws
- One CD-ROM with User Guide (PDF) included
- One registration card
- Console cable

Minimum Requirements

- Web-based configuration—Java-enabled web browser
- Cat5 Ethernet network cable
- TCP/IP, network adapter, and network operating system (such as Microsoft Windows or Linux) installed on each computer in the network

PRODUCT DATA

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Check the product package and contents for specific features supported. Specifications are subject to change without notice.



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Model: **SFE1000P**