LINKSYS[®] A Division of Cisco Systems, Inc.

Ethernet switch with 24-port 10/100, 4 10/100/1000 ports, and PoE and stacking

SFE2000P is optimized for maximizing the system availability with fully redundant Stacking, Redundant Power options, and Dual Images for resilient firmware upgrades. The SFE2000P is able to secure the network through IEEE 802.1Q VLANs, IEEE 802.1X port authentication, Access Control Lists (ACL), DOS Prevention, and MAC-based filtering. The enhanced QoS and traffic management features ensure clear and reliable voice and video communications

For Wireless or VoIP deployments, the SFE2000P supports the IEEE802.3af standard for Power over Ethernet (PoE). With automatic load sensing, the power control circuitry automatically detects PoE on the end-device before providing power. For safety, each port has independent overload and short-circuit protection, along with LED indicators for power status. A maximum of 15.4W is available on the FE ports for powering PoE enabled wireless AP or VoIP handsets, with a maximum per device PoE delivery of 185 Watts available for all ports.

SFE2000P switches provide an intuitive, secure management interface enabling you to better utilize the comprehensive feature-set of the SFE2000P, resulting in a better optimized, more secure network.

Linksys Business Series SFE and SGE Stackable switch products are Linksys One Ready. That means they include the necessary firmware to be seamlessly integrated into a Linksys One data or data/voice network. Once connected, a Linksys One Service Router will discover the SFE/SGE device, automatically configure it and make it available to other users on the network. Linksys One technology is automatic and self-configuring. When Linksys One Voice Gateways, IP Phones and other Linksys One peripherals are connected to a Linksys One Ready Ethernet switch's ports, small businesses are ready to communicate in a matter of minutes.

Fully resilient stacking provides optimized growth with simplified management Provides IEEE 802.3af PoE power to IP phones, cameras, or APs Maximum security and control of traffic with policing, shaping, ACLs, and QoS Linksys One Ready - simple, automated installation with Linksys One Services Routers present

PRODUCT DATA

BUSINESS SERIES

24-Port 10/100 Ethernet Switch with PoE



Model: SFE2000P



Features

- 24 10/100 Ethernet ports + 4 10/100/100 Copper ports
- 2 miniGBIC slots (shared with 2 copper ports) for Fiber Gigabit Ethernet expansion
- IEEE 802.3af PoE on delivered over any of the 24 10/100 ports
- A maximum of 15.4W is available on the FE ports for powering PoE enabled wireless AP or VoIP handsets, with a maximum per device PoE delivery of 185 Watt available for all ports
- Dual images for resilient firmware upgrades
- 12.8 Gbps, Non-blocking, Store-and-Forward switching capacity
- Simplified QoS management using 802.1p, Diffserv or ToS traffic prioritization specifications
- Power redundancy when used with Linksys Business Series Redundant Power Supply unit
- Fully resilient stacking provides optimized growth with simplified management
- Access Control Lists (ACL) for granular security and QoS implementation
- Management enables configuration and monitoring from a standard web browser
- Secure remote management of the switch via SSH and SSL encryption

PRODUCT DATA

BUSINESS SERIES

24-Port 10/100 Ethernet Switch with PoE

Specifications

specifications	
Model	SFE2000P 24-port 10/ 100 Ethernet Switch with PoE
Ports	24 RJ-45 connectors for 10BASE-T/100BASE-TX +
	4 10BASE-T/100BASE-TX/1000Base-T with 2 Gigabit combo ports
	shared between miniGBIC ports
	Console port Auto MDI/MDI-X
	Autonegotiate/Manual setting
	RPS port for connecting to Redundant Power Supply unit
Buttons	Reset Button
Cabling Type	UTP CAT 5 or better for 10BASE-T/100BASE-TX,
cubing type	UTP CAT 5e or better for 1000BASE-T
LEDs	PWR, Fan, Link/Act, PoE, Speed, RPS, Master, Stack ID 1 - 8
POE	
	IEEE 802.3af PoE on delivered over any of the 24 10/100 ports
	Power budget allows for max power of 15.4W on
	up to 12 ports simultaneously
Performance	
Switching Capacity	Up to 12.8 Gbps, non-blocking
Stacking	
Stack Operation	Up to 8 units in a stack (192 ports)
Stack Operation	Hot Insertion and removal
	Ring and Chain stacking options
	Master and Backup master for resilient stack control
	Auto-numbering or manual configuration of units in stack
Layer 2	
MAC table size	8K
Number of VLANs	256 active VLANs (4096 range)
VLAN	Port-based and 802.1Q Tag-based VLANs Protocol-based VLAN
	Management VLAN
	Private VLAN Edge (PVE)
	GVRP
HOL Blocking	Head of line blocking prevention
Layer 3	
Layer 3 options	Static Routing CIDR (Classless Interdomain Routing)
	128 Static Routes
	IPv4
	Forwarding in silicon - Wirespeed forwarding of layer 3 traffic
Management	
Management Web User Interface	Built-in Web UI for easy browser-based configuration (HTTP/HTTPS)
SNMP	SNMP version 1, 2c, 3 with support for traps
SNMP MIBs	RFC1213 MIB-2, RFC2863 Interface MIB, RFC2665 Ether-like MIB,
SINIMIP IMIBS	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
RMON	Embedded Remote Monitoring (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
	Dual images for resilient firmware upgrades
Port Mirroring	Traffic on a port can be mirrored to another port for analysis
_	with a network analyzer or RMON probe



802.1Q based VLANs enable
segmentation of networks
for improved performance
and security

- Private VLAN Edge for simplified network isolation for guests connections or autonomous networks
- Automatic configuration of VLANs across multiple switches through GVRP/GARP
- User/Network port level security via 802.1x authentication and MAC-based filtering
- Increased the bandwidth and added link redundancy with Link Aggregation Control Protocol (LACP)
- Enhanced rate limiting capabilities, including back pressure, multicast, and broadcast flood control
- Port Mirroring for non-invasive monitoring of switch traffic
- Mini Jumbo frame support (1600 bytes)
- SNMP v1, v2c, v3 and RMON support
- Fully rack-mountable using the included rack-mounting hardware
- Linksys One Ready Simple, one-step automated installation and initial configuration

PRODUCT DATA

Security IEEE 802.1x

Access Control

Other Management

Availability Link Aggregation

Storm Control DOS prevention Spanning Tree

IGMP Snooping

Power Redundancy

QoS

Priority levels Scheduling Class of Service

Rate Limiting

Standards

BUSINESS SERIES

Traceroute Single IP Management Secure Socket Layer (SSL) security for Web UI Secure Shell (SSH) RADIUS Port mirroring TFTP upgrade DHCP client BootP SNTP Xmodem upgrade Cable diagnostics PING Syslog Telnet client (SSH secure support)

802.1x - RADIUS Authentication. MD5 Hash **Guest VLAN** Single/Multiple Host mode ACLs - Drop or Rate Limit based on: Source and Destination MAC-based Source and Destination IP address Protocol Port VLAN DSCP/IP Precedence TCP/UDP Source and Destination ports 802.1p priority Ethernet Type **ICMP** packets **IGMP** packets Up to 1018 rules

Link Aggregation using IEEE 802.3ad LACP Up to 8 ports in up to 8 groups Broadcast and Multicast Storm protection DOS Attack prevention IEEE 802.1D Spanning Tree, IEEE 802.1w Rapid Spanning Tree, IEEE 802.1s Multiple Spanning Tree, Fast Linkover IGMP (v1/v2) snooping limits bandwidth-intensive video traffic to only the requestors. Support 256 multicast groups Connection to RPSU for power redundancy

4 Hardware queues Priority Queuing and Weighted Round Robin (WRR) Port-based 802.1p VLAN priority based IPv4/v6 IP Precedence/TOS/DSCP based Diffserv Classification and Remarking ACLs Ingress policer Egress rate control

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, 802.3 ad 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 W x H x D	17.32" x 14.70" x 1.73" (440 x 375 x 44 mm)
Unit Weight	10.89 lb (4.94 kg)
Power	48VDC
Certification	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A
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% relative humidity, noncondensing
Storage Humidity	10 to 95% relative humidity, noncondensing

Package Contents

- SFE2000P Ethernet Switch
- Console Cable
- AC Power Cord
- Rackmount Kit
- Quick-Start Installation Guide

Minimum Requirements

- Web-Based Utility: Web Browser (Mozilla Firefox 1.5 or later, IE 5.5 or later, Netscape 7.01 or later)
- Cat5 Ethernet Network Cables
- Operating System: Windows 2000, XP or Above
- Provider support for CPE (Software Version 1.2 or Above)

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Linksys products are available in more than 50 countries, supported by 12 Linksys Regional Offices throughout the world. For a complete list of local Linksys Sales and Technical Support contacts, visit our Worldwide Web Site at www.linksys.com.

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