

Gigabit Ethernet Switch with 24-port 10/100/1000 with 4 shared SFP slots and stacking

SGE2000 is optimized for maximizing the system availability with fully redundant stacking, redundant power options, and dual images for resilient firmware upgrades. The SGE2000 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

The SGE2000 Switch includes an intuitive, secure management interface enabling you to better utilize the comprehensive feature-set of the SGE2000, 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 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.



Granular QoS options makes solution ideal for improved application experience Maximum security and control of traffic with policing, shaping, ACLs, and QoS

Linksys One Ready - simple, automated installation with Linksys One Services Routers present

SGE2000

PRODUCT DATA

24-Port 10/100/1000 Gigabit Switch

LINKSYS One Ready

Model: SGE2000

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Features

- 24 10/100/1000 Ethernet ports
- 4 SFP slots (shared with 4 copper ports) for Fiber Gigabit Ethernet expansion
- Dual images for resilient firmware upgrades
- Up to 48 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 (RPS1000)
- 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
- 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

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24-Port 10/100/1000 Gigabit Switch

Specifications

Model SGE2000 - 24-Port 10/100/1000 Gigabit Switch

Ports 24 RJ-45 Connectors for 10BASE-T/100BASE-TX/1000BASE-T

with 4 Shared Gigabit SFP Slots

Console Port Auto MDI/MDI-X

Autonegotiate/Manual Setting

RPS Port for Connecting to Redundant Power Supply Unit

Buttons Reset Butto

Cabling Type UTP CAT 5 or Better for 10BASE-T/100BASE-TX,

UTP CAT 5e or Better for 1000BASE-T

LEDs PWR, Fan, Link/Act, Speed, RPS, Master, Stack ID 1 - 8

Performance

Switching Capacity Up to 48 Gbps, Non-Blocking

Forwarding Rate

(Based on 64-Byte Packets) Up to 35.7Mpps

Stacking

Stack Operation Up to 8 Units in a Stack (192 Ports)

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

Web User Interface Built-In Web UI for Easy Browser-Based Configuration (HTTP/HTTPS)

SNMP Version 1, 2c, 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,

RFC3621 Power Ethernet 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



 Automatic configuration of VLANs across multiple switches through GVRP/GARP

 User/Network port level security via 802.1x authentication and MAC-based filtering

 Increased bandwidth and added link redundancy with Link Aggregation

 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 Other Management 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)

Security

IEEE 802.1x 802.1x - RADIUS Authentication, MD5 Hash

Guest VLAN

Single/Multiple Host Mode

Access Control 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

Availability

Link Aggregation Link Aggregation using IEEE 802.3ad LACP

Up to 8 Ports in up to 8 Groups

Storm Control Broadcast and Multicast Storm Protection

DOS Prevention DOS Attack Prevention

Spanning Tree IEEE 802.1D Spanning Tree, IEEE 802.1w Rapid Spanning Tree,

IEEE 802.1s Multiple Spanning Tree, Fast Linkover

IGMP Snooping IGMP (v1/v2) Snooping Limits Bandwidth-Intensive Video Traffic to

only the Requestors. Supports 256 Multicast Groups

Power Redundancy Connection to RPSU for Power Redundancy

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 IP Precedence/TOS/DSCP Based

Diffserv

Classification and Remarking ACLs

Rate Limiting Ingress Policer

Egress Rate Control

Standards

802.3 10BASE-T Ethernet, 802.3u 100BASE-TX Fast Ethernet, 802.3ab 1000BASE-T Gigabit Ethernet, 802.3z Gigabit Ethernet, 802.3z Flow Control, 802.3 ad LACP, 802.1d STP, 802.1Q/p VLAN,

802.1w Rapid STP, 802.1s Multiple STP, 802.1x Port Access Authentication

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Environmental

Dimensions 17.32" x 14.70" x 1.73" W x H x D (440 x 375 x 44 mm)
Unit Weight 14.09 lb (6.39 kg)

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

Number of Fans 2

Acoustic Noise 55dB Max.

Power 100-240VAC, 50-60Hz, Internal, Universal; Also Equipped with Redundant

Power Supply Connector for External Power Supply 48VDC

Power Consumption 12V@7.5A (90W)

Package Contents

- SGE2000 24-Port 10/100/1000 Gigabit Switch
- Console CableAC Power CordRack-Mount Kit
- Rack-Mount Kit

Quick Installation Guide Minimum Requirements

- Web Browser Mozilla Firefox 1.5 or Later, IE 5.5 or Later, Netscape 7.01 or Later
- Cat5 Ethernet Network Cable
- TCP/IP Protocol Installed on Each Computer Within the Network
- Network Adapter Installed in Each Computer
- · Network Operating System
- Provider Support for CPE Software Version 1.2 or Higher

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7041110B-RR **Model: SGE2000**