

LINKSYS®

A Division of Cisco Systems, Inc.

48-Port 10/100 switch with reliable, intelligent, ACL, Security, QoS, SNMP managed PoE for growing business

The Linksys Switch with WebView allows you to expand your network securely. Configuration of the switch is secured using SSL for Web access. User control is secured with 802.1X security using a RADIUS authentication mechanism and can also be controlled using MAC-based filtering.

Extensive QoS features makes the solution ideal for real-time applications like voice and video. The 4 priority queues together with the Weighted Round Robin and Strict Priority scheduling techniques facilitate efficient coexistence of real-time traffic with data traffic allowing them each to meet their QoS needs. Individual users or applications can be prioritized above others using various Class of Service options - by port, layer 2 priority (802.1p), and layer 3 priority (ToS or DSCP). Intelligent broadcast and multicast storm controls minimize and contain the effect of these types of traffic on regular traffic. IGMP snooping limits bandwidth-intensive video traffic to only the requestors without flooding all users. Incoming traffic can be policed and outgoing traffic can be shaped allowing you to control network access and traffic flow.

There are features that allow you to expand and grow your network of switches. Link aggregation allows multiple high-bandwidth trunks between switches to be setup. This also provides a level of reliability in that the system continues to operate if one of the links break. Spanning Tree (STP), Fast Spanning Tree, Rapid Spanning Tree (RSTP), and Multiple Spanning Tree (MSTP) allow you to build a mesh of switches increasing the availability of the system.

The rich management functionality of the WebView switches includes SNMP, RMON, Telnet, and HTTP Management options, allowing you to flexibly integrate and manage these devices in your network.

Power control circuitry (Automatic load sensing) automatically detects Power over Ethernet on access points before providing power. Power feeding of Ethernet is limited for fixed 10BASE-T/100BASE-TX ports. The solution can provide maximum output power per PoE port up to 15.4W on 24 ports or 7.5W on 48 ports simultaneously. The Switch provides independent overload and short-circuit protection for each port, LED indicators for power status per PoE port, and supports IEEE802.3af MIB for Power over Ethernet functionality. The Switch supports IEEE 802.1d spanning tree, IEEE 802.1w Rapid STP, Fast Linkover, and IEEE 802.1s Multiple STP. Cable diagnostics can be performed using the Switch's WebView utility.

Optimized to be your network core with 48 10/100 Ethernet, 2 shared Gigabit combo and 2 giga ports

Standards-based IEEE 802.3af PoE - Up To 24 Ports @ 15.4W or 48 Ports @ 7.5W. Total PoE power is 375 W.

Solution ideal for voice/video with IGMP snooping, L2/L3 policy filters

Secure management via SSH/SSL and secure user control via 802.1X & MAC-based filtering



SRW248G4P

PRODUCT DATA

48-Port 10/100 + 4-Port Gigabit Switch with WebView and Power over Ethernet

BUSINESS SERIES

Model: SRW248G4P



Features

- 48 - 10/100 Switched RJ-45 ports deliver up to 4 Gbps of throughput per port
- 2 shared 10/100/1000 miniGBIC ports
- Switching capacity delivers wire-speed performance at 17.6 Gbps, non-blocking capacity
- WebView monitoring allows administrators to view the current status and configuration using their favorite web browser
- PoE on 48 10/100 ports supplies up to 7.5W per port or 24 10/100 ports supplies up to IEEE 802.3af maximum of 15.4W per port
- Auto MDI/MDIX per port allows for automatic cable detection
- Port based and 802.1q based VLAN's support up to 256 VLANs
- Port trunking for up to 8 groups allows you to increase your bandwidth for each uplink or Server connection
- Port configuration settings for link, speed, auto MDI/MDIX, flow control, and more
- Fully rack-mountable using the included rack-mounting hardware
- MAC address table supports up to 8K MAC address entries
- Optimal platform to support real-time applications like voice and video by providing features like IGMP snooping, multiple queues (4) with appropriate scheduling techniques, prioritization of traffic based on port, 802.1p, IP ToS/precedence/DSCP, TCP/UDP port and line rate

PRODUCT DATA

BUSINESS SERIES

48-Port 10/100 + 4-Port Gigabit Switch with WebView and Power over Ethernet

Specifications

Model	SRW248G4P
Ports	48 RJ-45 connectors for 10BASE-T, 100BASE-TX and 1000BASE-T with 2 shared SFP slots and 2 giga ports
Cabling Type	UTP CAT 5 or better for 10BASE-T/100BASE-TX, UTP CAT 5e or better for 1000BASE-T
LEDs	Power, Link/Act, Speed

Performance

Switching Capacity	17.6 Gbps, non-blocking
MAC table size	8K
Number of VLANs	256 Active VLANs - 4096 range

Management

Web User Interface	Built-in Web UI for easy browser-based configuration (HTTP/HTTPS)
SNMP	SNMP version 1, 2, 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
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) TFTP upgrade
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe
Other Management	RFC854 Telnet (Menu-driven configuration) Secure Shell (SSH) and Telnet management (SSHv2) Telnet client SSL security for Web UI Switch audit log DHCP client BootP SNTP Xmodem upgrade Cable diagnostics PING

Security Features

IEEE 802.1X	802.1X - RADIUS Authentication. MD5 Encryption
Access Control	ACLs - Drop or rate limit based on: Source and destination MAC address Source and destination IP address Protocol ToS/DSCP Port VLAN Ethertype

Availability

Link Aggregation	Link Aggregation using IEEE 802.3ad LACP Up to 8 ports in up to 8 trunks
Storm Control	Broadcast and Multicast
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 provides for fast client joins and leaves of multicast streams and limits bandwidth-intensive video traffic to only the requestors

forwarding mechanisms

- Enhanced QoS functions including rate limiting for ingress/egress and per flow at 64kbps granularity
- Secure control via SSH for Telnet interface and SSL for HTTP interface
- User/Network security via 802.1X (with RADIUS authentication) and MAC-based filtering
- Advanced security ACL can deny or limit network access based on L1-L4 information e.g. MAC, Ethernet type, VLAN ID, IP address, Protocol ID, or TCP/UDP port
- Containment of storms - Broadcast and Multicast
- Expandability and availability increased across multiple switches using link aggregation
- Port trunking for up to 8 groups with up to 8 ports per group allows you to increase your bandwidth for each uplink or Server connection
- SNMP and RMON management expand your visibility options

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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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QoS

Priority levels	4 Hardware queues
Scheduling	Priority Queueing and Weighted Round Robin (WRR)
Class of Service	Port-based 802.1p VLAN priority based IPv4 IP precedence/ToS/DSCP TCP/UDP port

Layer 2

VLAN	Port-based and 802.1q based VLANs Management VLAN
HOL Blocking	Head of line blocking prevention
Jumbo frame Standards	Supports frames up to 10K byte frames 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

Environmental

Dimensions W x H x D	17.32" x 1.75" x 13.7" (440 x 44 x 348 mm)
Unit Weight	11.42 lb (5.18 kg)
Power	100-240V 0.5A
Certification	FCC Part15 Class A, CE Class A, UL CSA (CSA22.2), CE mark, CB
Operating Temp.	32 to 122°F (0 to 45°C)
Storage Temp.	-4 to 158°F (-20 to 70°C)
Operating Humidity	20 to 95%
Storage Humidity	5 to 90% noncondensing

Package Contents

- SRW248G4P Switch
- AC Power Cord
- Rack Mounting Kit with Brackets and Hardware
- CD with User Guide in PDF Format
- Online Registration Card
- Console Cable

Minimum Requirements

- Web-based Utility: Web Browser - Microsoft Internet Explorer (Version 5.5 or Above)
- Cat5 Ethernet Network Cable
- Operating System: Windows 2000, XP or Above

Warranty

- 5 Years

Check the product package and contents for specific features supported. Specifications are subject to change without notice. Linksys is a registered trademark or trademark of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries. Copyright © 2006 Cisco Systems, Inc. All rights reserved. Other brands and product names are trademarks or registered trademarks of their respective holders.

Model: **SRW248G4P**

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