LINKSYS®
A Division of Cisco Systems, Inc.

Secure, reliable, intelligent, high density managed switching for growing businesses

The Linksys WebView Managed switch allows you to expand your network securely. Configuration of the switch is secured using SSL for Web access and SSH for Telnet access. User control is secured using 802.1x security using a RADIUS authentication mechanism and can also be controlled using MAC 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 co-existence 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), Layer 3 priority (TOS or DSCP*), or IPv6 Traffic Class*. Intelligent Broadcast, Multicast, and Unknown Unicast storm control minimizes 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 to 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 allow 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*, and Multiple Spanning Tree* allow you to build a mesh of switches increasing the availibility 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.

* Future firmware release

| Optimized for growing businesses with 4 expandable Gig ports | Secure management via SSH/SSL and secure user control via 802.1x & MAC filtering | IGMP snooping, L2/L3 COS, queuing & scheduling makes solution ideal for Voice/Video | Intelligent traffic management with Rate Limiting, Policing, Shaping, and Storm control |

48-Port 10/100 + 4-Port

WIRED

Gigabit Switch
with WebView

Product Data

CISCO SYSTEMS

Model No. **SRW248G4**

48-Port 10/100 + 4-Port Gigabit Switch
with WebView

Features

- 48 - 10/100 Switched RJ-45 ports deliver up to 200Mbps of throughput per port

- 4 - 10/100/1000 Switched RJ-45 Gb Uplink Ports (with 2 shared mini-GBIC ports)

- WebView monitoring allows administrators to view the current status and configuration using their favorite web browser

- 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

- Auto MDI/MDIX per port allows for automatic Cable detection

- 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 L2/L3 priority*, and line rate forwarding mechanisms

- 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

- Containment of storms - Broadcast, Multicast, and Unknown Unicast

- Expandability and availability increased across multiple switches using Link Aggregation

- SNMP and RMON management expand your visibility options

Specifications

Ports	48 RJ-45 connectors for 10BASE-T and 100BASE-TX, 4 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T with 2 shared SFP slots, Auto MDI/MDI-X, Autonegotiate/Manual setting
Cabling Type	UTP CAT 5 or better for 10BASE-T/100BASE-TX, UTP CAT 5e or better for 1000BASE-T
LED Indicators	Power, Link/Act, Speed

Performance

Switching Capacity	17.6 Gig non-blocking
MAC Table Size	8k
Number of VLANs	256 - Static (Today) and Dynamic (Future)

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, Telnet Client, SSL security for Web UI, Switch Audit Log, DHCP Client, BootP, SNTP, Xmodem upgrade, Cable Diagnostics, PING, Traceroute

Security

IEEE 802.1x	802.1x - RADIUS Authentication. MD5 Encryption
Access Control	Filtering: MAC-based*

Availability

Link Aggregation	Link Aggregation using IEEE 802.3ad LACP, Up to 8 ports in up to 8 trunks
Storm Control	Broadcast, Muticast, and Unknown Unicast
Spanning Tree	IEEE 802.1d Spanning Tree, IEEEE 802.1s Multiple Spanning Tree*, IEEE 802.1w Rapid 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.

QoS

Priority Levels	4 Hardware queues
Scheduling	Priority Queueing and Weighted Round Robin (WRR)
Class of Service	Port-based, 802.1p VLAN priority based, IP TOS/DSCP based, IPv4 & IPv6 Traffic Class based COS
Rate Limiting	Ingress Policer, Egress Shaper

Layer 2

VLAN	Port-based and 802.1q based VLANs, Private VLAN Edge (PVE), Management VLAN
HOL Blocking	Head of line blocking prevention
Mini Jumbo Frame	Supports frames up to 1600 bytes
Dynamic VLAN	GVRP* - Dynamic VLAN Registration

Standards

Standards	802.3i 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	16.93" x 1.75" x 13.78" (430 mm x 44.45 mm x 350 mm)
Unit Weight	8.6 lbs. (3.9 kg)
Power Input	internal switching power
Certifications	FCC Part15 Class A, CE Class A, UL, cUL, CE mark, CB
Operating Temp	32ºF to 104ºF (0ºC to 40ºC)
Storage Temp.	-4ºF to 158ºF (-20ºC to 70ºC)
Operating Humidity	10% to 90%, Non-Condensing
Storage Humidity	10% to 95%, Non-Condensing
Warranty	5 years

* Future firmware release

Minimum Requirements

- Web-based Configuration Java-enabled Browser
- Cat5 Ethernet Network Cable
- TCP/IP Protocol installed on each computer within the network
- Network Adapter installed in each computer
- Network Operating System (e.g. Windows®, Linux, MacOS X)

Package Contents

- One SRW248G4 Switch
- One Power Cord
- One Rack Mounting Kit
- One CD with User Guide in PDF Format
- One Registration Card
- Console Cable

SRW248G4-DS-51028 KL

Product Data

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