

LINKSYS®

A Division of Cisco Systems, Inc.

Secure, reliable, intelligent, high density, managed gigabit switching for your growing business

Growing small businesses require cost effective, yet scalable networking solutions that can scale with ever changing business needs. The Linksys SRW2048 Switch with WebView brings gigabit speeds to your users and servers, while adding a whole new level of intelligence and security to the network infrastructure. The 48 10/100/1000 Mbps ports enable you to take advantage of the Gigabit Ethernet interfaces shipping on the current generation of servers, workstations and storage devices in addition to supporting your existing 10/100 Mbps clients. The optional gigabit optical interfaces allow you to expand the network as your business grows.

Network security is a top priority in any size business. Most business data networks, large and small, are insecure. Unauthorized access to the network and mission critical data is a constant concern. The SRW2048 is able to secure the network using 802.1X port authentication, ACL, and MAC address port locking. 802.1X requires clients to authenticate themselves before the port will pass data.

Businesses are recognizing the benefits of doing Voice over IP (VoIP) and are quickly migrating their voice services to IP based platforms, requiring their local area networks to support both voice and data applications. In unmanaged IP networks, bursty data sessions can disrupt voice packet delivery, causing poor voice quality. With the enhanced QoS and traffic management features in the SRW2048, voice data can be prioritized, ensuring clear and reliable voice communications.

Enabling the SRW2048 advanced features further secures the integrity of your network. The WebView interface provides an intuitive, secure management interface enabling you to better utilize the comprehensive feature-set of the switch, resulting in a better optimized, more secure network.

Brings gigabit speeds to your network network addressing the needs power users and high bandwidth applications

Increases network security secure user control via 802.1X port authentication, ACL, and MAC address port locking

Enables the network to be optimized for your networked applications, including voice, video and data storage

Provides intelligent traffic management with rate limiting, policing, shaping, and multicast support



SRW2048

PRODUCT DATA

48-Port 10/100/1000 + 4-Port MiniGBIC Gigabit Switch with WebView

BUSINESS SERIES

Model: SRW2048



Features

- 48 10/100/1000 Switched RJ-45 ports with auto MDI/MDI-X cable detection
- 4 MiniGBIC ports for optical or copper interconnections
- Non-blocking, store-and-forward switching mechanism
- Simplified QoS management enabled by advanced queuing techniques using 802.1p, Diffserv or ToS traffic prioritization specifications
- Configuration and monitoring from a standard web browser with WebView management
- 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 for simplified network isolation for guests connections or autonomous networks
- Automatic configuration of VLANs across multiple switches through GVRP/GARP
- Automatic port configuration through auto MDI/MDIX and 802.1ab (LLDP)
- User/Network port level security via 802.1X authentication and MAC-based filtering

PRODUCT DATA

BUSINESS SERIES

48-Port 10/100/1000 + 4-Port MiniGBIC Gigabit Switch with WebView

Specifications

Ports	48 RJ-45 connectors for 10BASE-T, 100BASE-TX and 1000BASE-T with 4 shared SFP slots
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	96 Gbps, non-blocking
MAC table size	8K
Number of VLANs	256 VLANs

Management

Web User Interface	Built-in Web UI for easy browser-based configuration (HTTP/HTTPS)
SNMP	SNMP version v1, v2c, v3 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 Syslog

Security

IEEE 802.1X	802.1X - RADIUS Authentication. MD5 Encryption
Access Control	ACLs - Drop or rate limit based on: Source and destination MAC-based 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, Multicast, and Unknown Unicast
Spanning Tree	IEEE 802.1d Spanning Tree, IEEE 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

- Increased the bandwidth (up to 8x) and added link redundancy with Link Aggregation Control Protocol (LACP)
- Enhanced rate limiting capabilities and storm control, including multicast, broadcast and flood control
- Port mirroring for non-invasive monitoring of switch traffic
- Jumbo frame support (10KB)
- SNMP v1, v2c, v3 and RMON support
- Fully rack-mountable using the included rack-mounting hardware

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/v6 IP Precedence/TOS/DSCP based* TCP/UDP port-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, 802.3x 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

Layer 2

VLAN	Port-based and 802.1q based VLANs Private VLAN Edge (PVE) Management VLAN
HOL Blocking	Head of line blocking prevention
Jumbo frame	Supports frames up to 10K byte frames
Dynamic VLAN	GVRP - Dynamic VLAN Registration
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 W x H x D	16.93" x 1.75" x 13.78" (430 x 45 x 350 mm)
Unit Weight	2.20 lb (1 kg)
Power	Internal switching power
Certification	FCC Part15 Class A, CE Class A, UL, cUL, CE mark, CB
Operating Temperature	32 to 104°F (0 to 40°C)
Storage Temperature	-4 to 158°F (-20 to 70°C)
Operating Humidity	10% to 90%
Storage Humidity	10% to 95%

Package Contents

- SRW2048 48-Port 10/100/1000 Gigabit Switch with WebView
- AC Power Adapter and 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 Cables
- Operating System: Windows 2000, XP or Above

Warranty

- 5 Years

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