



A Division of Cisco Systems, Inc.

## Secure, reliable, intelligent, managed gigabit switching for your growing business

Growing businesses require cost effective, networking solutions that can scale with ever changing business needs. The Linksys SRW2016 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 16 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. Unauthorized access to the network and mission critical data is a constant concern. The SRW2016 is able to secure the network through 802.1X port authentication. 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 SRW2016, voice data can be prioritized, ensuring clear and reliable voice communications.

Enabling the SRW2016 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, addressing the needs of power users and high bandwidth applications

Increases network security secure user control via 802.1X port authentication

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



SRW2016

### PRODUCT DATA

## 16-Port 10/100/1000 + 2-Port MiniGBIC Gigabit Switch with WebView

### BUSINESS SERIES

Model: **SRW2016 v1.2**



## Features

- 16 10/100/1000 Gigabit Ethernet ports
- 2 MiniGBIC slots for fiber gigabit Ethernet expansion
- 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

# 16-Port 10/100/1000 + 2-Port MiniGBIC Gigabit Switch with WebView

## Specifications

Model	SRW2016 - 16-Port 10/100/1000 Gigabit Switch with WebView
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3x, 802.1p, 802.1q
Ports	16 10/100/1000 RJ-45 ports and 2 shared MiniGBIC slots
Cabling Type	Cat5e or better
LEDs	System, Link/Activity, Gigabit

## Performance

Switching Capacity	32 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), 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 RADIUS TACACS+ 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  
Scheduling  
Class of Service

4 Hardware queues  
Priority Queuing and Weighted Round Robin (WRR)  
Port-based\*  
802.1p VLAN priority based\*  
IPv4/v6 IP Precedence/TOS/DSCP based\*  
TCP/UDP port-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, 802.3ad LACP, 802.3af PoE, 802.1D STP, 802.1Q/p VLAN, 802.1w Rapid STP, 802.1s Multiple STP, 802.1X Port Access Authentication

Rate Limiting

Standards

## Layer 2

VLAN

Port-based and 802.1q based VLANs  
Private VLAN Edge (PVE)  
Management VLAN

HOL Blocking

Jumbo frame

Dynamic VLAN

Standards

Head of line blocking prevention  
Supports frames up to 10K byte frames  
GVRP - Dynamic VLAN Registration  
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

Unit Weight

Power

Certification

Operating Temperature

Storage Temperature

Operating Humidity

Storage Humidity

16.93" x 1.75" x 13.78"  
(430 x 45 x 350 mm)  
7.3 lb (3.311 kg)  
100-240V 0.5A  
FCC Part15 Class A, CE Class A, UL, cUL, CE mark, CB  
32 to 104°F (0 to 40°C)  
-40 to 158°F (-40 to 70°C)  
20 to 95% relative humidity, noncondensing  
5 to 90% noncondensing

## Package Contents

- SRW2016 - 16-Port 10/100/1000 Gigabit Switch with WebView
- AC Power Cord
- Rack Mounting Kit with Brackets and Hardware
- CD with User Guide in PDF Format
- 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

\* Denotes features found only in v1.2 of hardware

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: SRW2016**

6111412A-RR

Linksys  
A Division of Cisco Systems, Inc.  
121 Theory  
Irvine, CA 92617 USA

E-mail: [sales@linksys.com](mailto:sales@linksys.com)  
[support@linksys.com](mailto:support@linksys.com)  
Web: <http://www.linksys.com>

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](http://www.linksys.com).

## PRODUCT DATA

## BUSINESS SERIES

**LINKSYS®**  
A Division of Cisco Systems, Inc.