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LINKSYS®
A Division of Cisco Systems, Inc.

16 or 24-Port 10/100/1000
Gigabit Switch **User Guide**

WIRED

CISCO SYSTEMS

Model No. **SR2016/SR2024C**

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Manual abstract:

SR2016/SR2024C 16-Port or 24-Port 10/100/1000 Gigabit Switch Copyright and Trademarks 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 © 2005 Cisco Systems, Inc. All rights reserved. Other brands and product names are trademarks or registered trademarks of their respective holders. WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. How to Use this Guide This User Guide has been designed to make understanding networking with the Switch easier than ever. Look for the following items when reading this Guide: This checkmark means there is a note of interest and is something you should pay special attention to while using the Switch. This exclamation point means there is a caution or warning and is something that could damage your property or the Switch. This question mark provides you with a reminder about something you might need to do while using the Switch. In addition to these symbols, there are definitions for technical terms that are presented like this: word: definition.

Also, each figure (diagram, screenshot, or other image) is provided with a figure number and description, like this: Figure 0-1: Sample Figure Description Figure numbers and descriptions can also be found in the "List of Figures" section in the "Table of Contents". SR2016-2024C-UG-60530NC RR 16-Port or 24-Port 10/100/1000 Gigabit Switch Table of Contents Chapter 1: Introduction Welcome What's in this Guide? 1 1 2 Chapter 2: Getting to Know the Switch The Front Panel The Back Panel The Side Panel 3 3 5 5 Chapter 3: Connecting the Switch Overview Connection Instructions Placement Options 6 6 7 8 Appendix A: Glossary Appendix B: Specifications Appendix C: Warranty Information Appendix D: Regulatory Information Appendix E: Contact Information 9 14 15 16 22 16-Port or 24-Port 10/100/1000 Gigabit Switch List of Figures Figure 2-1: SR2016 Front Panel Figure 2-2: SR2024C Front Panel Figure 2-3: Back Panel Figure 2-4: Left Side Panel Figure 3-1: Example of a Typical Network (SR2024C) Figure 3-2: Connecting an Ethernet Cable Figure 3-3: Wall-mount 3 4 5 5 6 7 8 16-Port or 24-Port 10/100/1000 Gigabit Switch Chapter 1: Introduction Welcome Thank you for choosing the 16-Port or 24-Port 10/100/1000 Gigabit Switch. The 16 Port and 24-Port 10/100/1000 Gigabit Switches provide non-blocking, wire speed switching for your 10, 100, and 1000 megabit network clients. @@@@@@@@With the 16-Port or 24-Port 10/100/1000 Gigabit Switch, you can connect your existing 10/100 Ethernet network to a Gigabit server backbone without any additional equipment. All ports have automatic MDI/MDI-X crossover detection, so you don't have to worry about the cable type.

Each port independently and automatically negotiates for best speed and whether to run in half- or full-duplex mode. Address learning and aging is supported, as well as 802.3x flow control with head-of-line blocking prevention to keep your high-speed clients from bogging down in lower-speed traffic. Fast store-and-forward switching prevents damaged packets from being passed on into the network. World famous Linksys reliability and the limited lifetime warranty give you peace of mind and the rackmount form factor integrates smoothly into your network infrastructure. Let the Linksys 16-Port or 24-Port 10/100/1000 Gigabit Switch kick your network into high gear. This user guide will give you all the information you need to connect, set up, and configure your Switch. Ethernet: a network protocol that specifies how data is placed on and retrieved from a common transmission medium. Chapter 1: Introduction Welcome 1 16-Port or 24-Port 10/100/1000 Gigabit Switch What's in this Guide? This user guide covers the steps for setting up and using the 16-Port and 24-Port 10/100/1000 Gigabit Switch. · Chapter 1: Introduction This chapter describes the 16-Port and 24-Port 10/100/1000 Gigabit Switch applications and this User Guide.

· Chapter 2: Getting to Know the Switch This chapter describes the physical features of the Switch. · Chapter 4: Connecting the Switch This chapter instructs you on how to connect the Switch to your network. · Appendix A: Glossary This appendix gives a brief glossary of terms frequently used in networking. · Appendix B: Specifications This appendix provides the technical specifications for the Switch. · Appendix C: Warranty Information This appendix supplies the warranty information for the Switch. · Appendix D: Regulatory Information This appendix supplies the Adapter's regulatory information. · Appendix E: Contact Information This appendix provides contact information for a variety of Linksys resources, including Technical Support. Chapter 1: Introduction What's in this Guide? 2 16-Port or 24-Port 10/100/1000 Gigabit Switch Chapter 2: Getting to Know the Switch The Front Panel The 16- and 24-Port 10/100/1000 Gigabit Switches differ in number of LEDs and ports. The LEDs and ports are located on the front panel of the Switch. SR2016 Figure 2-1: SR2016 Front Panel LEDs System Link/Act Green.

The System LED lights up when the Switch is powered on. Green. Each LED will light up when there is a connection made through its corresponding port. It will flash when there is activity on its corresponding port. Yellow.

LED will light up solid when there is a gigabit connection made through its corresponding port. Gigabit Ports 1-16 (Ethernet) The Ethernet ports connect to network devices, such as PCs, print servers, or additional switches. Chapter 2: Getting to Know the Switch The Front Panel 3 16-Port or 24-Port 10/100/1000 Gigabit Switch SR2024C Figure 2-2: SR2024C Front Panel LEDs System Link/Act Green. The System LED lights up when the Switch is powered on. Green.

Each LED will light up when there is a connection made through its corresponding port. It will flash when there is activity on its corresponding port. Yellow. LED will light up solid when there is a gigabit connection made through its corresponding port. Gigabit Ports 1-24 (Ethernet) The Ethernet ports connect to network devices, such as PCs, print servers, or additional switches. MiniGBIC 1, MiniGBIC 2 The miniGBIC (gigabit interface converter) ports are connection points for miniGBIC modules and are only included on the SR2024C. These ports are shared. If you use the Mini GBIC 1 port, then you cannot use port 12. If you use the Mini GBIC 2 port, then you cannot use port 24. Chapter 2: Getting to Know the Switch The Front Panel 4 16-Port or 24-Port 10/100/1000 Gigabit Switch The Back Panel The power port is located on the back panel of the Switch.

Figure 2-3: Back Panel Power The Power port is where you will connect the included AC power cable.

The Side Panel Figure 2-4: Left Side Panel Security Slot The Security Slot is where you can attach a lock to guard against theft. Chapter 2: Getting to Know the Switch The Back Panel 5 16-Port or 24-Port 10/100/1000 Gigabit Switch Chapter 3: Connecting the Switch Overview This chapter will explain how to connect network devices to the Switch. For an example of a typical network configuration, see the application diagram shown in Figure 3-1. Internet Cable/DSL Modem Router Wireless Access Point Server Desktop Notebook Figure 3-1: Example of a Typical Network (SR2024C) Chapter 3: Connecting the Switch Overview 6 16-Port or 24-Port 10/100/1000 Gigabit Switch When you connect your network devices, make sure you don't exceed the maximum cabling distances, which are listed in the following table: Table 1: Maximum Cabling Distances From Switch Hub Switch or Hub Switch or Hub* Hub Computer To Maximum Distance 100 meters (328 feet) 5 meters (16.4 feet) 100 meters (328 feet) A hub refers to any type of 100Mbps hub, including regular hubs and stackable hubs. A 10Mbps hub connected to another 10Mbps hub can span up to 100 meters (328 feet). Connection Instructions To connect network devices to the Switch, follow these instructions: 1. Make sure all the devices you will connect to the Switch are powered off. 2.

Connect a Category 5 Ethernet network cable to one of the numbered ports on the Switch. 3. Connect the other end to a PC or other network device. NOTE: Use Category 5e Ethernet cables for your Gigabit connections. 4.

Repeat steps 2 and 3 to connect additional devices. NOTE: The miniGBIC ports are shared and are only located on the SR2024C. Do not use port 12, if you are using the miniGBIC 1 port. If you are using miniGBIC port 2, do not use port 24. For instructions on how to connect miniGBIC modules to the Switch's miniGBIC ports, please refer to the module's documentation.

5. Connect the supplied power cord to the Switch's power port, and plug the other end into an electrical outlet. 6. Power on the devices connected to the Switch. Each active port's corresponding LED will light up on the Switch. Figure 3-2: Connecting an Ethernet Cable Chapter 3: Connecting the Switch Connection Instructions 7 16-Port or 24-Port 10/100/1000 Gigabit Switch Placement Options There are three ways to physically install the Switch: set the Switch on its four rubber feet, mount the Switch in a standard-sized, 1U high rack, or hang the Switch on a wall using its wall-mount slots. To rack mount the Switch, follow these instructions: 1. The Switch has four mounting holes on each side. Screw an included mounting bracket into each side. 2.

Place the Switch in the rack, and secure the brackets with additional screws. To hang the Switch on a wall, follow these instructions: 1. The wall-mount slots are two crisscross slots on the Switch's bottom panel (see Figure 3-3). The distance between the two slots is 95 mm. Attach two screws to the wall, so that the Switch's wall-mount slots line up with the two screws. 2. Maneuver the Switch so the screws are inserted into the two slots. Congratulations!The installation of the Switch is complete. @@@@@@Also used to expand the range of a wireless network. @@@@Bandwidth - The transmission capacity of a given device or network.

Bit - A binary digit. @@Broadband - An always-on, fast Internet connection. @@@@@@@@@DHCP (Dynamic Host Configuration Protocol) - A networking protocol that allows administrators to assign temporary IP addresses to network computers by "leasing" an IP address to a user for a limited amount of time, instead of assigning permanent IP addresses. Atwork access. Appendix A: Glossary 11 16-Port or 24-Port 10/100/1000 Gigabit Switch RJ-45 (Registered Jack-45) - An Ethernet connector that holds up to eight wires.

@@@@@@@@@@@@SSID (Service Set IDentifier) - Your wireless network's name. @@Static Routing - Forwarding data in a network via a fixed path. @@Switch - 1. @@2. @@@@TCP/IP (Transmission Control Protocol/Internet Protocol) - A set of instructions PCs use to communicate over a network. Telnet - A user command and TCP/IP protocol used for accessing remote PCs. TFTP (Trivial File Transfer Protocol) - A version of the TCP/IP FTP protocol that has no directory or password capability. Throughput - The amount of data moved successfully from one node to another in a given time period. Appendix A: Glossary 12 16-Port or 24-Port 10/100/1000 Gigabit Switch TKIP (Temporal Key Integrity Protocol) - a wireless encryption protocol that provides dynamic encryption keys for each packet transmitted. Topology - The physical layout of a network. TX Rate - Transmission Rate. Upgrade - To replace existing software or firmware with a newer version. Upload - To transmit a file over a network. URL (Uniform Resource Locator) - The address of a file located on the Internet. VPN (Virtual Private Network) - A security measure to protect data as it leaves one network and goes to another over the Internet.

WAN (Wide Area Network)- The Internet. WEP (Wired Equivalent Privacy) - A method of encrypting network data transmitted on a wireless network for greater security. WLAN (Wireless Local Area Network) - A group of computers and associated devices that communicate with each other wirelessly. WPA (Wi-Fi Protected Access) - a wireless security protocol using TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server. Appendix A: Glossary 13 16-Port or 24-Port 10/100/1000 Gigabit Switch Appendix B: Specifications Models Standards Ports Cabling Type LEDs Dimensions (W x H x D) Unit Weight Power Certification Operating Temp. Storage Temp. Operating Humidity Storage Humidity SR2016 SR2024C IEEE 802.3, 802.3u, 802.3x, 802.

3ab SR2016 - 16 RJ-45 10/100/1000 SR2024C - 24 RJ-45 10/100/1000 + 2 Mini-GBIC ports Category 5e or better SR2016 - System, 1 through 16 SR2024C - System, 1 through 24 10.98" x 1.75" x 9.45" (279 mm x 44.5 mm x 240 mm) SR2016 - 4.

75 lbs (2.155 kg) SR2024C - 4.78 lbs (2.17 kg) 110-120VAC, 100W FCC Class A, CE 0ºC to 40ºC (32ºF to 104ºF) -40ºC to 70ºC (-40ºF to 158ºF) 20% to 95% relative humidity 5% to 95% Non-Condensing Appendix B: Specifications 14 16-Port or 24-Port 10/100/1000 Gigabit Switch Appendix C: Warranty Information LIMITED WARRANTY Linksys warrants to the original end user purchaser ("You") that, for a period of the product's lifetime, (the "Warranty Period"), your Linksys Product will be substantially free of defects in materials and workmanship under normal use. Your exclusive remedy and Linksys' entire liability under this warranty will be for Linksys at its option to repair or replace the Product or refund Your purchase price less any rebates. This limited warranty extends only to the original purchaser. If the Product proves defective during the Warranty Period call Linksys Technical Support in order to obtain a Return Authorization Number, if applicable.

BE SURE TO HAVE YOUR PROOF OF PURCHASE ON HAND WHEN CALLING. If You are requested to return the Product, mark the Return Authorization Number clearly on the outside of the package and include a copy of your original proof of purchase. RETURN REQUESTS CANNOT BE PROCESSED WITHOUT PROOF OF PURCHASE. You are responsible for shipping defective Products to Linksys. Linksys pays for UPS Ground shipping from Linksys back to You only. Customers located outside of the United States of America and Canada are responsible for all shipping and handling charges. ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE WARRANTY PERIOD. ALL OTHER EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF NON-INFRINGEMENT, ARE DISCLAIMED.

Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to You. This warranty gives You specific legal rights, and You may also have other rights which vary by jurisdiction. This warranty does not apply if the Product (a) has been altered, except by Linksys, (b) has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Linksys, or (c) has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident. In addition, due to the continual development of new techniques for intruding upon and attacking networks, Linksys does not warrant that the Product will be free of vulnerability to intrusion or attack. TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL LINKSYS BE LIABLE FOR ANY LOST DATA, REVENUE OR PROFIT, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING NEGLIGENCE), ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE THE PRODUCT (INCLUDING ANY SOFTWARE), EVEN IF LINKSYS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL LINKSYS' LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this Agreement fails of its essential purpose. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to You. Please direct all inquiries to: Linksys, P.O.

Box 18558, Irvine, CA 92623. 15 Appendix C: Warranty Information 16-Port or 24-Port 10/100/1000 Gigabit Switch Appendix D: Regulatory Information FCC Statement This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · · · · Reorient or relocate the receiving antenna Increase the separation between the equipment or devices Connect the equipment to an outlet other than the receiver's Consult a dealer or an experienced radio/TV technician for assistance Safety Notices Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord. Do not use this product near water, for example, in a wet basement or near a swimming pool. Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Industry Canada (Canada) This device complies with Industry Canada ICES-003 rule. @@IC Statement Operation is subject to the following two conditions: 1. This device may not cause interference and 2. @@@@@@User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE) This document contains important information for users with regards to the proper disposal and recycling of Linksys products. Consumers are required to comply with this notice for all electronic products bearing the following symbol: Appendix D: Regulatory Information 17 16-Port or 24-Port 10/100/1000 Gigabit Switch Appendix D: Regulatory Information 18 16-Port or 24-Port 10/100/1000 Gigabit Switch Appendix D: Regulatory Information 19 16-Port or 24-Port 10/100/1000 Gigabit Switch Appendix D: Regulatory Information 20 16-Port or 24-Port 10/100/1000 Gigabit Switch For more information, visit www.linksys.com. Appendix D: Regulatory Information 21 16-Port or 24-Port 10/100/1000 Gigabit Switch Appendix E: Contact Information Need to contact Linksys? Visit us online for information on the latest products and updates to your existing products at: Can't find information about a product you want to buy on the web? Do you want to know more about networking with Linksys products? Give our advice line a call at: Or fax your request in to: If you experience problems with any Linksys product, you can call us at: Don't wish to call? You can e-mail us at: If any Linksys product proves defective during its warranty period, you can call the Linksys Return Merchandise Authorization department for obtaining a Return Authorization Number at: (Details on Warranty and RMA issues can be found in the Warranty Information section in this Guide.) http://www.linksys.

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