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You can read the recommendations in the user guide, the technical guide or the installation guide for LINKSYS SD216. You'll find the answers to all your questions on the LINKSYS SD216 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual LINKSYS SD216**  
**User guide LINKSYS SD216**  
**Operating instructions LINKSYS SD216**  
**Instructions for use LINKSYS SD216**  
**Instruction manual LINKSYS SD216**

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

## 10/100 Switches



Use this guide to install the following products:

5-Port 10/100 Switch	SD205
8-Port 10/100 Switch	SD208
16-Port 10/100 Switch	SD216

**User Guide**



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**Manual abstract:**

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Please direct all inquiries to: Linksys, P.O. Box 18558, Irvine, CA 92623.

**FCC STATEMENT** Every 10/100 Switch has been tested and complies with the limits 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 SD205\_SD208\_SD216-UG-30602NC JL Table of Contents Chapter 1: Introduction The 10/100 Switch Features Chapter 2: Getting to Know the 10/100 Switch Overview Front Panel LEDs Back and Side Panel Features Chapter 3: Connecting the 10/100 Switch Overview Connecting Network Devices Placement Options Appendix A: Glossary Appendix B: Specifications Environmental Appendix C: Warranty Information Appendix D: Contact Information 1 1 1 2 2 2 2 4 4 5 6 7 9 10 11 12 Chapter 1: Introduction r The 10/100 Switch This newly redesigned Linksys 5-, 8-, or 16-Port 10/100 Switch can significantly increase your network traffic's speed. A switch serves the same function as a hub in a network design--tying your network equipment together. But unlike a simple-minded hub which divides the network's bandwidth among all the attached devices, a switch delivers full network speeds at each port. Installing this cost-effective 5-, 8-, or 16-Port 10/100 Switch can potentially increase your network speed by five, eight, or sixteen times! It's the perfect way of integrating 10Mbps Ethernet and 100Mbps Fast Ethernet devices, too. All ports are auto speed negotiating, and have automatic MDI/MDI-X crossover detection, so you don't have to worry about the cable type. Each port independently negotiates for best speed and half- or full-duplex mode, for up to 200Mbps of bandwidth per port.

Fast store-and-forward switching prevents damaged packets from being passed on into the network. The new, ultra-compact case design is sure to fit into your workgroup environment. @@@@The System LED will light up when the Switch is powered on. @@1-5, 1-8, or 1-16 Green. @It will flash when there is activity on its corresponding port. @@@@1. @@2. @@3. Connect the other end to a PC or other network device. 4.

Repeat steps 2 and 3 to connect additional devices. 5. @@Note: Make sure you use the power adapter included with the Switch. Using a different power adapter may result in damage to the Switch. @Plug the other end of the adapter into a power outlet.

7. Power on the devices connected to the Switch. @@@@To use this option, follow these instructions: 1. @@@@2. @@100BaseTX - IEEE physical layer specification for 100 Mbps over two pairs of Category 5 UTP or STP wire.

**Auto MDI/MDI-X** - On a network hub or switch, an auto MDI/MDI-X port automatically senses if it needs to act as a MDI or MDI-X port. The autoMDI/MDI-X capability eliminates the need for crossover cables. Auto-negotiate - To automatically determine the correct settings. The term is often used with communications and networking. For example, Ethernet 10/100 cards, hubs and switches can determine the highest speed of the node they are connected to and adjust their transmission rate accordingly. CAT 5 - ANSI/EIA (American National Standards Institute/Electronic Industries Association) Standard 568 is one of several standards that specify "categories" (the singular is commonly referred to as "CAT") of twisted pair cabling systems (wires, junctions, and connectors) in terms of the data rates that they can sustain. CAT 5 cable has a maximum throughput of 100 Mbps and is usually utilized for 100BaseTX networks. CAT 5e - The additional cabling performance parameters of return loss and far-end crosstalk (FEXT) specified for 1000BASE-T and not specified for 10BASE-T and 100BASE-TX are related to differences in the signaling implementation. 10BASE-T and 100BASE-TX signaling is unidirectional-signals are transmitted in one direction on a single wire pair. In contrast, Gigabit Ethernet is bi-directional-signals are transmitted simultaneously in both directions on the same wire pair; that is, both the transmit and receive pair occupy the same wire pair.

**Ethernet** - IEEE standard network protocol that specifies how data is placed on and retrieved from a common transmission medium. Has a transfer rate of 10 Mbps. Forms the underlying transport vehicle used by several upper-level protocols, including TCP/IP and XNS.



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*Fast Ethernet - A 100 Mbps technology based on the 10Base-T Ethernet CSMA/CD network access method. Congratulations! The installation of the 10/100 Switch is complete. @@@@To connect a MDI port to a computer, use a crossover cable. MDI-X (Medium Dependent Interface Crossed) - On a network hub or switch, a MDI-X port connects to a computer using a straight-through cable. To connect a MDI-X port to another hub or switch, use a crossover cable. Network - A system that transmits any combination of voice, video and/or data between users. Switch - 1. A data switch connects computing devices to host computers, allowing a large number of devices to share a limited number of ports. 2. A device for making, breaking, or changing the connections in an electrical circuit. Topology - A network's topology is a logical characterization of how the devices on the network*



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