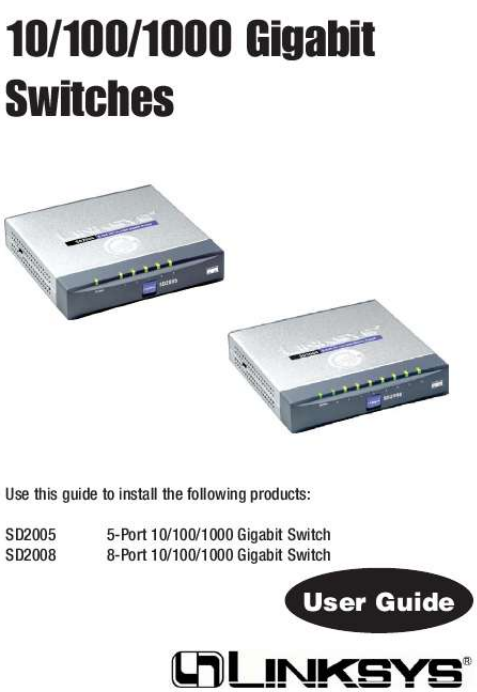

10/100/1000 Gigabit Switches

Use this guide to install the following products:

SD2005 5-Port 10/100/1000 Gigabit Switch
SD2008 8-Port 10/100/1000 Gigabit Switch

User Guide

LINKSYS®

Manual abstract:

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Please direct all inquiries to: Linksys, P.O. Box 18558, Irvine, CA 92623. FCC STATEMENT Every 10/100/1000 Gigabit 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 SD2005_2008-UG-30625NC JL Table of Contents Chapter 1: Introduction The 10/100/1000 Gigabit Switch Features Chapter 2: Getting to Know the 10/100/1000 Gigabit Switch Overview Front Panel LEDs Back and Side Panel Features Chapter 3: Connecting the 10/100/1000 Gigabit 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 Chapter 1: Introduction The 10/100/1000 Gigabit Switch The 5- or 8-Port 10/100/1000 Gigabit Switch provides non-blocking, wire speed switching for your 10, 100, and 1000 megabit network clients. Drop this Switch in place of your current workgroup hub or switch, and you can upgrade your high-requirement workstations to full Gigabit speeds as necessary, while continuing to service other clients at their current speeds. Or build your network from the ground up, with appropriate link speeds for each user's requirements.

Apply this switching power to your current hub-based Ethernet network, and your data traffic efficiency will improve several times over. Connect your Gigabit-equipped workstations to the Switch's 10/100/1000 ports for fullduplex, dedicated bandwidth of up to 1000Mbps! It's perfect for graphics, multimedia, and other applications that have to move large files across the network quickly. With the 5- or 8-Port 10/100/1000 Gigabit Switch, you can connect your existing 10/100 Ethernet network to your Gigabit server backbone without any additional equipment. All ports are auto-negotiating, and have automatic MDI/MDI-X crossover detection, so you don't have to worry about the cable type. @@@@@@@@@@@@The System LED will light up when the Switch is powered on. 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. @@@@@@Plug the other end of the adapter into an electrical outlet.

7. Power on the devices connected to the Switch. @@@@To use the wall-mount option, follow these instructions: 1. @@@@2. Maneuver the Switch so the screws are inserted into the two slots.

Appendix A: Glossary 10BaseT - An Ethernet standard that uses twisted wire pairs. 100BaseTX - IEEE physical layer specification for 100 Mbps over two pairs of Category 5 UTP or STP wire. 1000Base-T - Provides half-duplex and full-duplex 1000Mbps Ethernet service over Category 5 links as defined by ANSI/TIA/EIA-568-A. Topology rules for 1000Base-T are the same as those used for 100BaseT. Category 5 link lengths are limited to 100 meters by the ANSI/TIA/EIA-568-A cabling standard. 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.

Figure 3-4 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 farend crosstalk (FEXT) specified for 1000BASE-T and not specified for 10BASE-T and 100BASE-TX are related to differences in the signaling implementation. @@@@@@Has a transfer rate of 10 Mbps.

@@The installation of the 10/100/1000 Gigabit Switch is complete. 6 7 Fast Ethernet - A 100 Mbps technology based on the 10Base-T Ethernet CSMA/CD network access method. Hub - The device that serves as the central location for attaching wires from workstations. Can be passive, where there is no amplification of the signals; or active, where the hubs are used like repeaters to provide an extension of the cable that connects to a workstation. Mbps (Megabits per second) - One million bits per second; unit of measurement for data transmission. MDI (Medium Dependent Interface) - On a network hub or switch, a MDI port, also known as an uplink port, connects to another hub or switch using a straight-through cable.
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 .