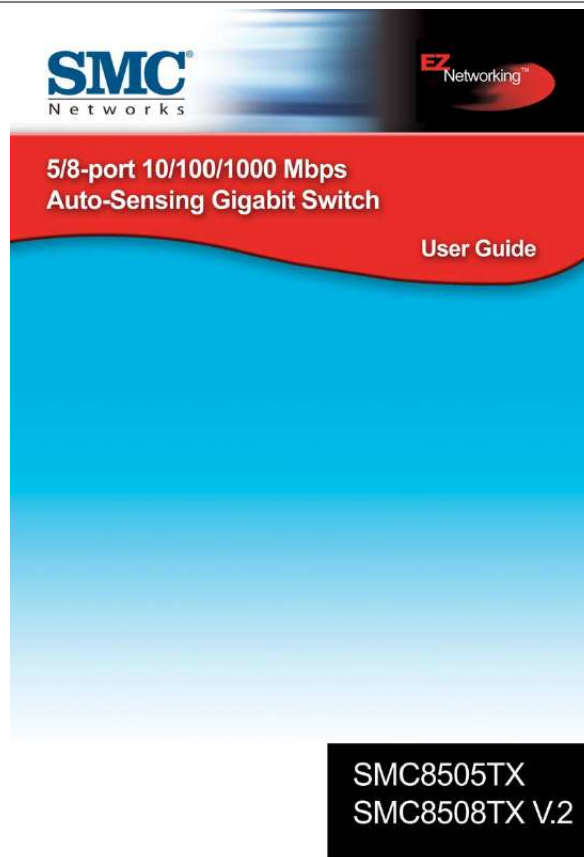




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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC 8505T. You'll find the answers to all your questions on the SMC 8505T in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual SMC 8505T**  
**User guide SMC 8505T**  
**Operating instructions SMC 8505T**  
**Instructions for use SMC 8505T**  
**Instruction manual SMC 8505T**



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**Manual abstract:**

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. v i INTRODUCTION The EZ Switch 10/100/1000, SMC8505T and SMC8508T, are high-performance Gigabit Ethernet switches designed for delivering Gigabit connectivity to the desktop. They provide 5/8 full-duplex 1000BASE-T ports that significantly improve network performance and boost throughput for high-bandwidth applications. With 10/16 Gigabits of aggregate bandwidth, these switches provide the quickest solution to meeting the growing demands on your network's limited resources. Features and Benefits ..... Auto-negotiation supported on all ports.

Automatic MDI/MDI-X operation. IEEE 802.3ab, 802.3u, and 802.3 compliance ensures compatibility with standards-based hubs, switches and cards from any vendor.

Store-and-forward switching ensures error-free transmission. Half- and full-duplex flow control prevents packets from being dropped under heavy loading.

Plug-and-play--nothing to configure. "At-a-glance" LEDs for port and system status monitoring. Desktop or rack installation. 1 INTRODUCTION Front Panel RJ-45 Ports These EZ Switch 10/100 models feature 5/8 1000BASE-T ports with RJ-45 connectors located on the front panel of the switch. Because all ports support automatic MDI/MDI-X operation, you can use straight-through cables for all network connections to PCs or servers, or to other switches or hubs. Front Panel LEDs The front panel of the switch provides status LEDs for "at-a-glance" system monitoring. The following table details the functions of the various indicators. Port and System Status LEDs LED Power Ports Link/Act On Off Flashing 1000M On Off 10/100M On Off The port has established a valid network connection.

The port has not established a network connection. Traffic is passing through the port. Indicates the port is operating at 1000 Mbps. Indicates the port is not operating at 1000 Mbps. Indicates the port is operating at 100 Mbps. Indicates the port is operating at 10 Mbps. Condition On Off Status The switch is receiving power. The switch is not receiving power. 2 REAR PANEL SMC8505T EZSwitch 10/100/1000 8505T IA SMC8508T EZSwitch 10/100/1000 8508T

1.25A Rear Panel The DC power receptacle is located on the rear panel of the switch.

3 INSTALLING THE SWITCH Before installing the switch, verify that you have all the items listed under "Package Contents." Note that the switch can be installed on any suitably large flat surface or in a standard EIA 19-inch rack. Package Contents The EZ Switch 10/100/1000 includes: · EZ Switch 10/100/1000 (SMC8505T or SMC8508T). · Four rubber foot pads. · Rack-mount bracket kit.

@@@As with any equipment, using a filter or surge suppressor is recommended. Instructions 1. Positioning the Switch: For desktop or shelf mounting, attach the four adhesive foot pads to the bottom of the switch. For rack mounting, install into a standard EIA 19-inch rack using the included brackets. 2.

Applying Power: Plug one end of the power adapter into the socket on the switch's rear panel, and the other end into an appropriate electrical outlet. Check the Power LED to be sure power is on. Note: It is not necessary to power off the switch before connecting or disconnecting any UTP cables, as these actions will not disrupt the operation of other devices attached to the switch. 3. Connecting PCs: Connect each PC to an RJ-45 port on the switch using Category 5, 5e, or 6 shielded or unshielded twisted-pair (UTP or STP) cable, maximum length 100 meters (328 ft). The EZ Switch 10/100/1000 will support up to 5/8 PCs. All ports on the switch support automatic MDI/MDI-X operation, so you can use straight-through cables for all network connections to PCs or servers, or to other switches or hubs. Note: If an attached device does not support auto-negotiation, the data rate will be sensed automatically and the communication mode will default to half duplex. 6 INSTRUCTIONS 4. Cascading Switches and Other Network Devices: All the ports on the switch support automatic MDI/MDI-X configuration for cable connections.

This allows you to use straight-through cable to connect to other switches or hubs from any port on the switch. No crossover cables or other device settings are needed. See the "Cable Specifications" on page 11 of this guide for further information. Caution: Do not plug a phone jack connector into any RJ-45 port. This may damage the switch. Instead, use only twisted-pair cables with RJ-45 connectors that conform with FCC standards. 7 INSTALLING THE SWITCH

Application Example A typical application for the SMC8505T/SMC8508T is illustrated below. EZ Switch 10/100/1000 SMC8508T Server itch EZSw T 8508

000 00/1 10/1 Internet SMC-EZ109DT LAN WAN 1 2 3 Link Activity PWR WLAN Notebook Workstations With SMC9452TX Gigabit PCI Cards

SMC2804WBR Wireless Broadband Router Workstations Notebook with SMC2835W Wireless PC Card 8 TROUBLESHOOTING Diagnosing Switch

Indicators 1. Symptom Power LED does not light after power on. Probable Causes · DC power adapter may be defective.

Possible Solutions · Check for loose connections. · Check the power outlet by using it for another device. · Replace the DC power adapter. 2. Symptom Link LED does not light after connection is made.

Probable Causes · Switch port, network card or cable may be defective. Possible Solutions · Check that the switch and attached device are both powered on.



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· Be sure the network cable is connected to both devices. · Verify that Category 5 or better cable is used for 10/100 Mbps connections, Category 5, 5e, or 6 cable for 1000 Mbps connections, and that the length of any cable does not exceed 100 meters (328 feet). · Check the network card and cable connections for defects.

· Replace the defective card or cable if necessary. 9 CABLES Cable Specifications Cable 10BASE-T 100BASE-TX 1000BASE-T Cable Types and Specifications Type Max. Length Cat. 3 or better 100-ohm UTP 100 m (328 ft) Cat. 5 or better 100-ohm UTP 100 m (328 ft) Cat. 5, 5e, or 6 100-ohm UTP 100 m (328 ft) Connector RJ-45 RJ-45 RJ-45 10BASE-T/100BASE-TX Pin Assignments Caution: DO NOT plug a phone jack connector into any RJ-45 port. Use only twisted-pair cables with RJ-45 connectors that conform with FCC standards. 1 8 8 1 Use unshielded twisted-pair (UTP) or shielded twisted-pair (STP) cable for RJ-45 connections: 100-ohm Category 3 or better cable for 10 Mbps connections or 100-ohm Category 5 or better cable for 100 Mbps connections. Also be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet). Because all ports on this switch support automatic MDI/MDI-X operation, you can use straight-through cables for all network connections to PCs or servers, or to other switches or hubs.

In straight-through cable, pins 1, 2, 3, and 6, at one end of the cable, are connected straight through to pins 1, 2, 3 and 6 at the other end of the cable. 11 CABLES The table below shows the 10BASE-T/100BASE-TX MDI-X and MDI port pinouts. Pin 1 2 3 6 4,5,7,8 MDI-X Signal Name Receive Data plus (RD+) Receive Data minus (RD-) Transmit Data plus (TD+) Transmit Data minus (TD-) Not used at 10/100 Mbps MDI Signal Name Transmit Data plus (TD+) Transmit Data minus (TD-) Receive Data plus (RD+) Receive Data minus (RD-) Not used at 10/100 Mbps 1000BASE-T Pin Assignments The table below shows the 1000BASE-T MDI and MDI-X port pinouts. These ports require that all four pairs of wires be connected. Note that for 1000BASE-T operation, all four pairs of wires are used for both transmit and receive. Use 100-ohm Category 5, 5e, or 6 unshielded twisted-pair (UTP) or shielded twisted-pair (STP) cable for 1000BASE-T connections. @@@@ This cable testing information is specified in tddot; Limitation of voltage fluctuation and flicker in low-voltage supply system according to EN 61000-3-3/1995 Immunity: · Product family standard according to EN 55024:1998 · Electrostatic Discharge according to EN 61000-4-2:1995 (Contact Discharge: ±4 kV, Air Discharge: ±8 kV) i COMPLIANCES · Radio-frequency electromagnetic field according to EN 61000-4-3:1996 (80 - 1000 MHz with 1 kHz AM 80% Modulation: 3 V/m) · Electrical fast transient/burst according to EN 61000-4-4:1995 (AC/DC power supply: ±1 kV, Data/Signal lines: ±0.5 kV) · Surge immunity test according to EN 61000-4-5:1995 (AC/DC Line to Line: ±1 kV, AC/DC Line to Earth: ±2 kV) · Immunity to conducted disturbances, Induced by radio-frequency fields: EN 61000-4-6:1996 (0.15 - 80 MHz with 1 kHz AM 80% Modulation: 3 V/m) · Power frequency magnetic field immunity test according to EN 61000-4-8:1993 (1 A/m at frequency 50 Hz) · Voltage dips, short interruptions and voltage variations immunity test according to EN 61000-4-11:1994 (>95% Reduction @10 ms, 30% Reduction @500 ms, >95% Reduction @5000 ms) LVD: MDD: · EN 60950 (A1/1992; A2/1993; A3/1993; A4/1995; A11/1997) · IEC 60601-1 Industry Canada - Class B This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus" ICES-003 of the Department of Communications. @ @Bitte lesen Sie diese Hinweise sorgfältig durch.

2. Heben Sie diese Anleitung für den späteren Gebrauch auf. 3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssigoder Aerosolreiniger.

Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung. 4. @ @5. Das Gerät ist vor Feuchtigkeit zu schützen. 6.

@ @Ein Kippen oder Fallen könnte Beschädigungen hervorrufen. 7. @ @ @ @ @ @9. @ @Es sollte auch nichts auf der Leitung abgestellt werden. 10. @ @11. @ @ @ @12. @ @Dies könnte einen Brand bzw. elektrischen Schlag auslösen. 13.

Öffnen sie niemals das Gerät. @ @14. @ @b. c. d. Netzkabel oder Netzstecker sind beschädigt. Flüssigkeit ist in das Gerät eingedrungen. Das Gerät war Feuchtigkeit ausgesetzt. @ @e. @ @f.

Wenn das Gerät deutliche Anzeichen eines Defektes aufweist. 15. @ @ @ @ @ @All SMC products carry a standard 2 year limited warranty from the date of purchase from SMC or its Authorized Reseller. SMC may, at its own discretion, repair or replace any product not operating as warranted with a similar or functionally equivalent product, during the applicable warranty term. SMC will endeavour to repair or replace any product returned under warranty within 30 days of receipt of the product.

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