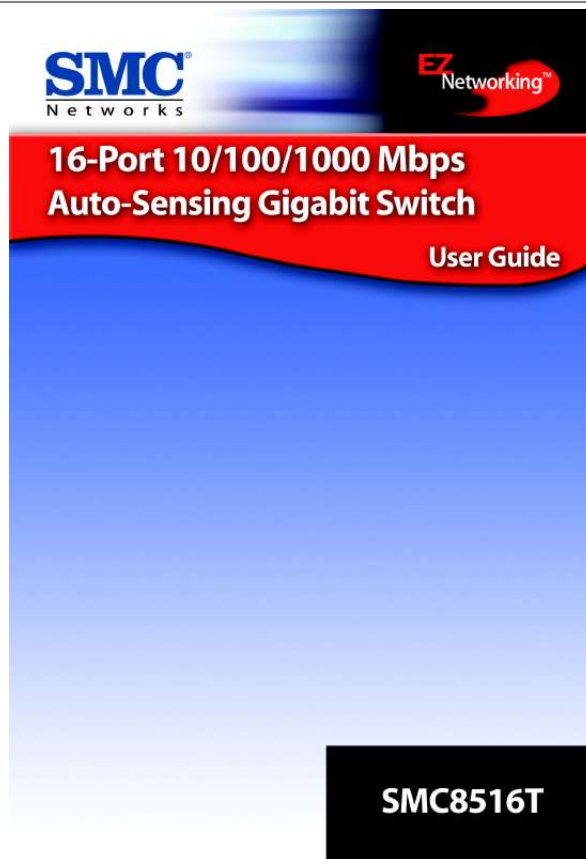




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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC 8516T. You'll find the answers to all your questions on the SMC 8516T in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SMC 8516T
User guide SMC 8516T
Operating instructions SMC 8516T
Instructions for use SMC 8516T
Instruction manual SMC 8516T



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Manual abstract:

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38 Tesla Irvine, CA 92618 ii COMPLIANCES FCC - Class A This equipment has been tested and found to comply with the limits for a Class A 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 in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined 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 the receiving antenna · Increase the separation between the equipment and receiver · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected · Consult the dealer or an experienced radio/TV technician for help EC Conformance Declaration - Class A SMC contact for these products in Europe is: SMC Networks Europe, Edificio Conata II,

Calle Fructuós Gelabert 6-8, 2o, 4a, 08970 - Sant Joan Despí, Barcelona, Spain.

This information technology equipment complies with the requirements of the Council Directive 89/336/EEC on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility and 73/23/EEC for electrical equipment used within certain voltage limits and the Amendment Directive 93/68/EEC.



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@@@Before making connections, make sure you have the correct cord set. @@@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. @@@@8. @@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. @@Flüssigkeit ist in das Gerät eingedrungen. Das Gerät war Feuchtigkeit ausgesetzt. @@e. Das Gerät ist gefallen und/oder das Gehäuse 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 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 operating at 100 Mbps. Indicates the port is operating at 10 Mbps. Condition On Off Status The switch is receiving power. @@@@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 or 5e 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 16 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.

5 INSTALLING THE SWITCH 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 9 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. 6 APPLICATION EXAMPLE A typical application for the SMC8516T is illustrated below. EZ Switch 10/100/1000 SMC8516T Server 8 7 6 5 4 3 2 1 13 14 15 16 12 11 10/1 ch Swit T Link/Act EZ 8516 8 00/1 000 9 10 SMC-EZ109DT 1 2 3 4 5 6 7 1000/100M Link/Act Internet 9 Power 10 11 12 13 14 15 16 1000/100M 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 7 TROUBLESHOOTING Diagnosing Switch Indicators 1.

Symptom Power LED does not light after power on. Probable Causes · AC power cord may be defective. Possible Solutions · Check for loose connections. · Check the power outlet by using it for another device. · Replace the AC power cord. 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. · 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 or 5e 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. 8

CABLES Cable Specifications Cable 10BASE-T 100BASE-TX 1000BASE-T Cable Types and Specifications Type Max. Length 2-pair Cat. 3 or better 100-ohm UTP 100 m (328 ft) 2-pair Cat. 5 or better 100-ohm UTP 100 m (328 ft) 4-pair Cat. 5 or better 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. 9 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 or 5e unshielded twisted-pair (UTP) or shielded twisted-pair (STP) cable for 1000BASE-T connections. Also be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet). Pin 1 2 3 4 5 6 7 8 MDI-X Bi-directional Data Two Plus (BI_D2+) Bi-directional Data Two Minus (BI_D2-) Bi-directional Data One Plus (BI_D1+) Bi-directional Data One Minus (BI_D1-) Bi-directional Data Four Plus (BI_D4+) Bi-directional Data Four Minus (BI_D4-) MDI Bi-directional Data One Plus (BI_D1+) Bi-directional Data One Minus (BI_D1-) Bi-directional Data Two Plus (BI_D2+) Bi-directional Data Two Minus (BI_D2-) Bi-directional Data Three Plus (BI_D3+) Bi-directional Data Three Minus (BI_D3-) Bi-directional Data Two Plus (BI_D2+) Bi-directional Data Two Minus (BI_D2-) Bi-directional Data One Plus (BI_D1+) Bi-directional Data One Minus (BI_D1-) Bi-directional Data Four Plus (BI_D4+) Bi-directional Data Four Minus (BI_D4-) 10 1000BASE-T CABLE REQUIREMENTS 1000BASE-T Cable Requirements All Category 5 UTP cables that are used for 100BASE-TX connections should also work for 1000BASE-T, providing that all four wire pairs are connected.



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However, it is recommended that for all critical connections, or any new cable installations, 4-pair Category 5e (enhanced Category 5) cable should be used. @@@@These tests are specified in the ANSI/TIA/EIA-TSB-95 Bulletin, "The Additional Transmission Performance Guidelines for 100 Ohm 4-Pair Category 5 Cabling." Note that when testing your cable installation, be sure to include all patch cables between switches and end devices. Adjusting Existing Category 5 Cabling If your existing Category 5 installation does not meet one of the test parameters for 100BASE-T, there are basically three measures that can be applied to try to correct the problem: 1. Replace any Category 5 patch cables with high-performance Category 5e or 6 cables. 2. Reduce the number of connectors used in the link. 3. Reconnect some of the connectors in the link. 11 PRODUCT SPECIFICATIONS EZ Switch 10/100/1000 Standards Conformance IEEE 802.

3 IEEE 802.3u IEEE 802.3x IEEE 802.3ab Communication Rate 10, 100, and 1000 Mbps Communication Mode Full or half duplex at 10/100 Mbps Full duplex at 1000 Mbps Media Supported 10BASE-T: 100-ohm Category 3 or better twisted-pair 100BASE-TX: 100-ohm 2-pair Category 5 or better twisted pair 100BASE-T: 100-ohm 4-pair Category 5/5e twisted-pair Indicator Panel Power Ports: Link/Act, 100/1000M Dimensions 33 x 23 x 4.4 cm (12.99 x 9.06 x 1.73 in.) 12 PRODUCT SPECIFICATIONS Weight 2.494 kg (5.

05 lbs) MAC Address Table 8 K entries Memory Buffer 400 Kbits on-chip frame buffer Power Consumption 38 Watts Heat Dissipation 130 BTU/hr maximum Power Requirement Input Voltage: 100 - 240 VAC@50/60 Hz Temperature Operating: 0 ~ 40 °C / 32 ~ 98 °F Storage: -40 ~ 70 °C / -40 ~ 158 °F Humidity 10% to 90% non-condensing EMC/Safety Compliances CE Mark Immunity EN 61000-4-2/3/4/5/6/8/11 Emissions FCC Class A, CISPR Class A, EN 61000-3-2/3 Safety CSA/NRTL (C22.2.950, UL 1950) TUV/GS EN60950, (IEC 950) 13 PRODUCT SPECIFICATIONS 14 FOR TECHNICAL SUPPORT, CALL: From U.S.A.

and Canada (24 hours a day, 7 days a week) (800) SMC-4-YOU; Phn: (949) 679-8000; Fax: (949) 679-1481 From Europe : Contact details can be found on www.smc-europe.com or www.smc.com INTERNET E-mail addresses: techsupport@smc.com european.techsupport@smc-europe.com Driver updates: http://www.smc.com/index.cfm?action=tech_support_drivers_downloads World Wide Web: <http://www.smc.com> <http://www.smc-europe.com> FOR LITERATURE OR ADVERTISING RESPONSE, CALL: U.

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