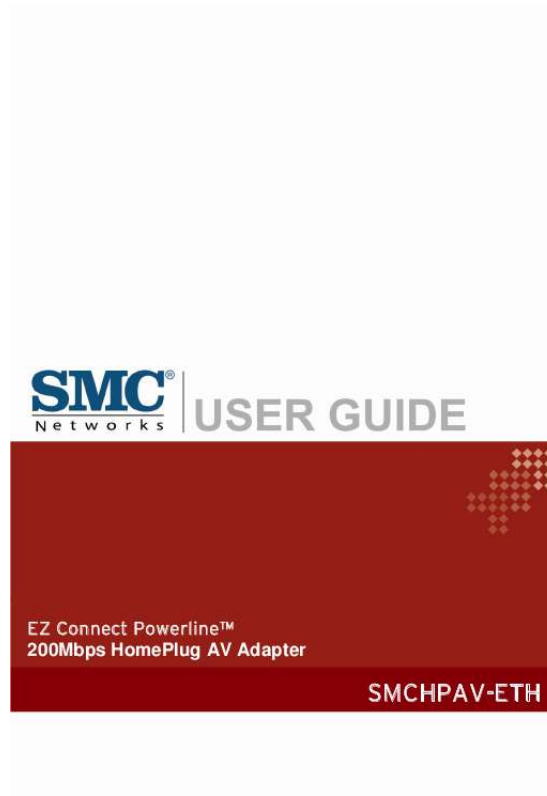




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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC HPAV-ETH. You'll find the answers to all your questions on the SMC HPAV-ETH in the user manual (information, specifications, safety advice, size,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

User manual SMC HPAV-ETH
User guide SMC HPAV-ETH
Operating instructions SMC HPAV-ETH
Instructions for use SMC HPAV-ETH
Instruction manual SMC HPAV-ETH



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Manual abstract:

@@@ Copyright © 2009 by SMC Networks, Inc. 20 Mason Irvine, CA 92618 All rights reserved. Printed in Taiwan Trademarks: SMC is a registered trademark; and EZ Connect Powerline is a trademark of SMC Networks, Inc. Other product and company names are trademarks or registered trademarks of their respective holders. 1 Warranty and Product Registration To register SMC products and to review the detailed warranty statement, please refer to the Support Section of the SMC Website at <http://www.smc.com> SMC Networks, Inc. 20 Mason Irvine, CA 92618 2 Compliances Federal Communication

Commission Interference Statement This equipment has been tested and found to comply 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 in accordance with 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 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 or relocate the receiving antenna. · Increase the distance 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. 3 EC Declaration of Conformity SMC contact for these products in Europe is: SMC Networks Spain, S.L. Edificio Conata II, Group CTSG Fructuos Gelabert 6-8 2o2a 08970 Sant Joan Despi, Barcelona, Spain

This product indicates compliance with the Essential Requirements of the EMC Directive (2004/108/EC) and the LVD Directive (2006/95/EC) of the European Union. This equipment meets the following conformance standards. EN 55022:2006 CISPR1/XX/CDV Opt B EN 61000-3-2 : 2006 EN 61000-3-3 : 1995+A1:2001+A2:2005 EN 55024: 1998+A1:2001+A2:2003 IEC 61000-4-2: 1995+A1:1998+A2:2000; IEC 61000-4-3:2006; IEC 61000-4-4: 2004; IEC 61000-4-5: 2005; IEC61000-4-6:2007; IEC61000-4-8:1993+A1:2000; IEC 61000-4-11: 2004 EN 60950-1: 2006 4 Index Preface....

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..... 23 5 PREFACE This document describes the installation of the SMCHPAV-ETH device. Please read this document before installing the product. This publication contains the following sections: Important safety instructions The first thing you need to know before you begin to install Product installation guide Specification IMPORTANT SAFETY INSTRUCTIONS This product is intended for connection to the AC power line. For installation instructions, please refer to the Installation section.

For removing the device, refer to the Unplug section. The following precautions should be considered when using this product. Please read all instructions before installing and operating this product. Please keep all instructions for later reference. Please follow all warnings and instructions marked on the product.

Unplug the powerline adapter from the power outlet before cleaning the product. Use a damp cloth for cleaning. DO NOT use liquid or aerosol cleaners. DO NOT operate this product near water. This product should never be placed near or over a radiator, or heat register.

This product relies on the building's electrical installation for short-circuit (over current) protection. Ensure that a fuse or circuit breaker no larger than 120VAC/20A or 240VAC/16A is used on the phase conductors (all current-carrying conductors). DO NOT allow anything to rest on the product interconnect

cords. DO NOT install this product where people may walk on the cords. Because the SMCHPAV-ETH device sends data over the powerline, it is recommended that you plug it directly into a power outlet. Do not plug the device into a UPS or power strip with surge protection. The SMCHPAV-ETH device has its own power filter for protection against surges. The product can be operated at an ambient temperature of 40oC. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible. 6 Only a qualified technician should service this product.

Opening or removing covers may result in exposure to dangerous voltage points or other risks. @@If liquid has been spilled into the product. If the product has been exposed to rain or water. @@@@1. @@Your PC must not be configured for another network. @@Network installation requires two steps: 1. Install the SMCHPAV-ETH device 2. For each PC to be added to the network, repeat the process 4. @@SMCHPAV-ETH device 2. Ethernet Cable (CAT 5) 5. @@@@6. @@@@ Plug the SMCHPAV-ETH device to an AC power outlet. The Power LED indicator will light on after plugging. @@@@3. 4.

5. 6. 2.2 Sharing a xDSL or cable modem Internet connection 1. @@@@2.

@@@@@2. Connect the other SMCHPAV-ETH adapter to the wireless Access Point (AP) Plug the SMCHPAV-ETH device into an AC power outlet. Plug the provided Ethernet cable into the RJ45 connector of SMCHAV-ETH and plug the other end of the cable into the Ethernet port on the wireless AP. 10 Chapter 3. Utility This Windows utility enables users to find the SMCHPAV-ETH on the Powerline network, measures data transfer rates, ensures privacy and performs diagnostics.



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3.1 System Requirements Operation System CPU RAM Free Disk Space Network Interface Microsoft Windows® 2000, XP, Vista Intel Pentium III or better, clock rate faster than 2.0GHz recommended Minimum 128MB Minimum 20MB One Fast Ethernet (10/100Mbps) network card with RJ45 port, one RJ45 Ethernet cable 3.2 Installation Step1. Before installing this utility, please verify that there is no any other Powerline utility installed on your computer.

If there is another utility installed, please uninstall it and restart your computer before installing the SMCHPAV-ETH utility. Step 2. Please insert the SMCHPAV-ETH CD-ROM into your cod to your logical network only if the Network Name (see chapter 3.4.2) and Password (see password on the device label) are both correct. Like the "Enter Password" function, incorrect passwords will be warned and denied. Figure 4. Add Remote Device 15 "Scan" button The "Scan" button is used to immediately search for SMCHPAV-ETH devices connected to your logical network. By default setting, it will automatically scan every 10 seconds and update the display lists accordingly. 3.

4.2 Privacy Tab By factory default, every SMCHPAV-ETH device carries a default logical network name: "HomePlug AV". The "Privacy" tab provides functions to manage this logical network name and create private network. "Use Default (Public Network)" button You can directly set the network name back to factory default "HomePlug AV" by clicking the "Use Default (Public Network)" button first, and then clicking the "Set Local Device Only" or "Set All Devices" button. Figure 5.

The Privacy Tab Screen 16 "Set Local Device Only" button The "Set Local Device Only" button is used to change the network name of the local device only. After changing the network name to a new one, all the devices existing in the same network before will no longer be able to communicate or respond to you because they will not have the same network name within the local device. "Set All Devices" button The "Set All Devices" button is used to change the network name of all devices in the logical networks, both local and remote, that are shown in the Main Tab. Please enter the password for remote devices in advance, following the instructions in "Enter Password" button to ensure that this function can proceed normally. 3.

4.3 Diagnostics Tab The "Diagnostics" tab shows the system information and the history of all devices that have been found before in the logical network (Figure 6). The upper window of the Diagnostics tab shows the host computer's system information: MAC Address of all NICs (network interface card) MAC Address and the firmware version of the SMCHPAV-ETH device which is connected to each NIC. Computer name User name Processor and operating system information Utility version Versions of all the driver DLLs and libraries used 17 Figure 6. The Diagnostics Tab Screen The lower window of Diagnostics tab contains the history of all remote devices which have been found by the computer previously. All the devices will be shown here, regardless whether they are currently active or not. The following information is available from the list: TEI (Terminal Equipment Identifier) MAC Address Password Speed(Mbps) Last Seen The diagnostics information displayed on the upper and lower window could be saved to a text file or printed out by printers. Devices which no longer exist in the logical network can be deleted using the "Delete..." button.

"Delete..." button Select the device that no longer exists in the logical network by clicking its record, and then click this button to delete the record. 18 "View Report..." button Click this button to view all the device information displayed on the upper and lower window in the default text editor. "Save Report."

.." button Click this button to save all the device information displayed on the upper and lower window to a text file. @@@@ Under standby mode, Link LED and Ethernet LED will both be off. 22 A-2.

Push buttons Please note that push button functions are disabled in standby mode. Security Button Usage: 1. First time to setup your private network: It is highly recommended to setup a private network with encryption to protect the network from unauthorized access through the Powerline network. In a private network each device must use exactly the same private network name to be able to communicate. Step 1.

Press and hold the device's "Security" button for more than 10 seconds to set up a random name for the private network. You can release the button when you see all the device's LEDs are turned off and on again. The original private network name (HomePlugAV) is cleared. Step 2. Repeat step 1 to clear another device's original private network name setting. Step 3. Press both devices' "Security" button for 2 seconds. You will see both devices' "Power" LED start blinking. The devices start to communicate and try to setup their private network name. They will complete the process within 10 seconds.

On both devices' all LEDs are turned off and on again. Note: The setup operation timeout is 120 seconds. Step 4. If the process to setup your private network failed, please repeat step 1 to step 3 again. 2. Add a new device to an existing private network: Step 1. Press and hold the "Security" button of the new device for more than 10 seconds to clear the original private network name setting. Step 2. Press the new device's "Security" button for 2 seconds. The "Power" LED starts blinking.

Step 3. Select a random device from the existing private network. Press its "Security" button for 2 seconds. The device's "Power" LED starts blinking. 23 Step 4.

The new device starts to communicate with the device from the existing private network, and tries to join the existing private network. It will complete the process within 10 seconds. On the new device's all LEDs are turned off and on again. The existing private network device's "Power" LED become solid. Note: The setup operation timeout is 120 seconds.

Step 5. If the process to add a new device to an existing private network failed, please repeat step 1 to step 3 again. 3. Remove a device from an existing private network: To remove a device from existing network, press and hold the device's "Security" button for more than 10 seconds to clear the private network name setting and generate a new random private network name. This will remove the device from the existing private network. To recover the private network name back to default, a hardware reset is required. Please press reset button. Reset Button Usage: 1. Reset the device to the factory default setting: Press the device's "Reset" button for 2 seconds.



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