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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC HPAV-ESW. You'll find the answers to all your questions on the SMC HPAV-ESW 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-ESW
User guide SMC HPAV-ESW
Operating instructions SMC HPAV-ESW
Instructions for use SMC HPAV-ESW
Instruction manual SMC HPAV-ESW

SMC[®]
Networks | **USER GUIDE**

EZ Connect Powerline™
200Mbps HomePlug AV Adapter
with 3 Fast Ethernet ports

SMCHPAV-ESW



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.....2 WARRANTY AND ..

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..3 PRODUCT REGISTRATION ...

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.....3 COMPLIANCES ..

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.....9 HOW TO USE THE UTILITY SOFTWARE .

..... @@@@For installation instructions, please refer to the installation section of this guide. The following precautions should be taken when using this product. Read all instructions before installing and operating this product. Follow all warnings and instructions marked on the product.

Unplug the device from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid cleaners or aerosol cleaners. Do not operate this product near water. This product should never be placed near or over a radiator or heat register. Do not use an extension cord between the device and the AC power source. Only a qualified technician should service this product. Opening or removing covers may result in exposure to dangerous voltage points or other risks. Do not plug the device into a power strip or surge protector because these devices may consist of filter and impair signal. Avoid plugging the device right next to noisy sources such as cell phone charger, Halogen light, noisy desktop computer, vacuum cleaner, etc.

otherwise it may result in poor transmission speed. Unplug the device from the wall outlet and refer the product to qualified service personnel for the following conditions: If liquid has been spilled into the product If the product has been exposed to rain or water If the product does not operate normally when the operating instructions are followed If the product shows a significant change in performance 7 3 Getting to Know the Adapter 3.1 The Ethernet Interface Ethernet 1~3: The Ethernet port connects to an Ethernet network cable. The other end of the cable will connect to your computer or other Ethernet-enabled network device. 3.

2 The Adapter's Buttons Reset: The button can restore the factory defaults and reset the device. Pressing and holding the RST button for 0.3 to 3 seconds to restore the factory defaults; Security: The button is used to set the private network name. Pressing and holding the NMK button for more than 10 seconds randomizes the NMK value. Pressing and holding the NMK button for 0.

5 to 3 seconds makes the adapter a member of the existing Powerline network. Note: For more information about the security button please see chapter 6. 3.3 The Adapter's LEDs All adapters' LEDs are located on the front panel; there are 5 LEDs to indicate the adapter's status. Ethernet 1~3: Green LED: The Ethernet connection is ready. Blinking: The Ethernet connection is transmitting or receiving data. OFF: No Ethernet network activity. Power: Green LED: Power on. OFF: Power off. Data: Blinking: The Powerline connection is transmitting or receiving data.

Red LED: Low link speed (Data rate is slower than 30Mbps) Yellow LED: Normal link speed (Data rate is between 30-50Mbps) Green LED: Excellent link speed (Data rate is faster than 50Mbps) OFF: No Powerline network activity 8 4 How to Installation Utility Before installing the configuration utility from Windows 7/Vista/XP/2000, please make sure that there is no any other Powerline Utility installed on your computer. @@Insert the Utility CD-ROM into the computer's CD-ROM drive. Select SMCHPAV-ETH2 Utility Installation and double-click Setup.exe. Follow the on-screen instructions to install the utility. No password or CD-Key is needed. The Installation Utility similar to the one shown in Figure 4-1. @@@@The user can click the Connect button to its right. @@@@Click Enter Password. @@@@The password field accepts the device password in any twork are listed. @@@@A dialog box will pop up with a confirmation message if you want to delete a device whose password has been entered. 15 5.4 About Tab The About screen shows the software version and provides an HTML link to a website, such as www.smc.com.

Clicking the web address, will open the website in your web browser. Figure 5-6: About Dialog Tab Preferences The lower part of the panel may display options for turning the auto-scan feature on or off. 16 6 SYNC button Usage This section describes how to add or remove devices from a Powerline network by using the SYNC button on the devices. This process allows to create a Powerline network without using the configuration utility for Windows and works independent from the operating system. 6.

1 Creating a private network When two devices with different SYNC values are connected to the same Powerline private network, they need to be synchronized to be able to communicate: 1. 2. 3. Press the SYNC button on device A for less than 3 seconds. Press the SYNC button on device B for less than 3 seconds. The button on device B must be pressed within 1 minute. Wait for the SYNC process to complete. The Power LED on both devices will blink evenly at 1-second intervals until the operation succeeded or failed. If the connection succeeded, it illuminates steadily.



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If an error occurred, the Power LED on the 'adder' (Device B) blinks unevenly until the SYNC button on the 'adder' (Device B) is pressed again or the 'joiner' (Device A) is reset by pressing the SYNC button down for more than 10 seconds.

Figure 6-1: Creating a Homeplug AV private network 6.2 Joining a Network In this scenario a Powerline private network exists and a new device, the 'joiner', should join the network. Any device on the existing Powerline network can become the 'adder'. 1. 2. 3. Press the SYNC button on the 'joiner' (new device) for at least 3 seconds. Press the SYNC button on any network device for less than 3 seconds, making it the 'adder' (existing device). Please press this SYNC button within 1 minute. Wait for the connection to complete.

The Power LED on both devices will blink evenly at 1-second intervals until the operation succeeded or failed. If the connection succeeded, it illuminates steadily. If an error occurred, the Power LED on the 'adder' blinks unevenly until the SYNC button on the 'adder' is pressed again or the 'joiner' is reset by pressing the RESET button down for more than 10 seconds. Figure 6-2: Joining a network 17 6.3 Leaving a Network In this scenario a Powerline network exists and one device, the 'leaver', should be removed from the network.

The user either wants to remove the device completely or have it join another logical network. 1. 2. Press the SYNC button on the 'leaver' for at least 10 seconds. The device resets and restarts with a random SYNC.

@@No error occurs. @@@@CAP 3 priority is used for voice and network management frames, CAP 2 is used for streaming video and music while CAP 1 and CAP 0 are used for data. Default CAP The Default CAP group allows default priority mapping of packets that do not have a VLAN tag. Settings are available for unicast (directed to a host). IGMP - (default CAP 3) - set the channel access priority for IGMP frames - these are the group management frames, not the stream data Unicast - (default CAP 1) - set the default channel access priority for unicast frames not matching any other classification or mapping. IGMP managed Multicast Stream (Fixed to CAP 2) - set the default channel access priority for stream data belonging to a snooped IGMP multicast group. Multicast/Broadcast - set the default CAP for multicast frames not in a snooped group and for broadcast frames. The following are the factory default settings for VLAN Tags and TOS Bits: VLAN Tag User priority 0 1 2 3 4 5 6 7 Default CAP Priority CAP1 CAP0 CAP0 CAP1 CAP2 CAP2 CAP3 CAP3 TOS Bit User Priority 0 1 2 3 4 5 6 7 Default CAP Priority CAP1 CAP0 CAP0 CAP1 CAP2 CAP2 CAP3 CAP3 22 .



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