

500Mbps Powerline Ethernet Adapter





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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. For more information about this product, please refer to the user manual on the CD-ROM. The software and specifications are subject to change without notice. Please visit our website <u>www.edimax.com</u> for updates. All brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

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Chapter 1: Introduction

1.1 Product Features

- Data rates up to 500Mbps
- Transmits network data via existing electrical wires (no external cabling required)
- Easy plug-and-play setup
- Works with routers, computers, and other network devices
- Consumes less than 1W of power in power saving mode

1.2 Application

- High-definition (HD) and standard-definition (SD) video distribution
- Broadband Internet sharing
- Internet Protocol Television (IPTV) and Voice over Internet Protocol (VoIP) applications



1.3 Compatibility

200Mbps and 500Mbps powerline devices (HomePlug AV standard) are incompatible and cannot be used with 14Mbps and 85Mbps powerline devices (HomePlug 1.0 and 1.1 standards).

1.4 System Requirements

Operating System	Utility can support Windows 2000/XP/Vista/7
CPU	Intel Pentium III 2.0GHz (or higher)
RAM	128MB (at least)
Free Disk Space	20MB (at least)
Network Interface	Fast Ethernet (100Mbps) network interface and an
	Ethernet cable

Chapter 2: Adapter



2.1 Ethernet Port

You can connect the HP-5001 to a router, a computer, or any network device via this Ethernet port.

2.2 Buttons

Reset	Press and hold the reset button for 3 seconds to restore the powerline adapter to factory defaults.
Socurity (Croup)	Proce and hold the "Security (Croup)" button for more than
Security (Group)	Press and hold the Security (Group) button for more than
	10 seconds to randomize the adapter's NMK value; or press
	and hold the "Security (Group)" button for 3 seconds to
	add the powerline adapter to the existing AV logical
	network (AVLN).

2.3 LEDs

		On	Ethernet connection established	
Ethernet	Green	Flashing	Network activity	
		Off	No Ethernet connection	
		On	Powered on	
	Green		 In power saving mode 	
Power		een Flashing	 Device resetting 	
			 Synchronizing password 	
		Off	Powered off	
	Green/ Orange/ Red		Green: PHY RATE > 80Mbps	
		On	Orange: 40Mbps < PHY RATE < 80Mbps	
PLC			Red: PHY RATE < 40Mbps	
		Off	Not in a powerline network	

Chapter 3: Utility Software Installation

- **Step 1** Before installing the utility software, make sure that no other powerline utility is installed on your computer. If any other utility software is installed, uninstall it and reboot the computer.
- Step 2 Insert the CD into your CD-ROM drive. When the following image appears, click "500Mbps Device".



Step 3 Then click "Setup Utility".

	200Mbps Powerline
Setup Utility Multi-language QIG	Includer Adobe Reader User's Manual
Desk	EWIT
Home Entertainment	www.edimax.com 🗟 Contact us

Note : You will get the following image, if your computer did not install WinPcap4.1.2 before. Please click "Apply" to install WinPcap4.1.2.







🕞 WinPcap 4.1.2 Setup					
License Agreement Please review the license terms before installing WinPcap 4.1.2.					
Press Page Down to see the rest of the agreement.					
Copyright (c) 1999 - 2005 NetGroup, Politecnico di Torino (Italy). Copyright (c) 2005 - 2010 CACE Technologies, Davis (California). All rights reserved.					
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:					
 Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials 					
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install WinPcap 4. 1.2.					
Nullsoft Install System v2.46					

🕞 WinPcap 4.1.2 Setup	
Win Pcap	Installation options Please review the following options before installing WinPcap 4.1.2
☑ Automatically start th	e WinPcap driver at boot time
Nullsoft Install System v2.46 –	< Back Install Cancel



Step 4 When the setup wizard appears, click "Next" to continue.



Step 5 Select where you want to install the utility software, and then click "Next".



B Edimax PowerLine Utility	
Select Installation Folder	
The installer will install Edimax PowerLine Utility to the following folder.	
To install in this folder, click "Next". To install to a different folder, enter it be	low or click "Browse".
<u>F</u> older:	
C:\Program Files\Edimax PowerLine Utility\	Browse
	Disk Cost
Install Edimax PowerLine Utility for yourself, or for anyone who uses this co	omputer:
⊘ Everyone	
Just me	
Cancel < Back	Next >

j	Edimax PowerLine Utility	
	Confirm Installation	
	The installer is ready to install Edimax PowerLine Utility on your computer.	
	Click "Next" to start the installation.	
	Cancel < Back	Next >

Step 6 After the installation is complete, click "Close".



Step 7 An icon will appear on your desktop. Click the icon to open the utility software.



Note: You can manage all the connected powerline adapters with the utility software. However, installing the utility software is optional.

Chapter 4: Using the Utility Software

4.1 Main Tab

The "Main" tab provides a list of powerline adapters connected to the computer. The upper panel displays local powerline adapters. The lower panel displays remote powerline adapters in the network.

Edimax PowerLine Utility				
Main Privacy Diagnostics	About			
Local Device(s) on your comp Device Type Que Powerline device	uter: MAC Address 00:1E:E3:00:26:C6	HomePlug Conn Upgrade F	Adapter NOT DE	TECTED
0 Powerline Devices detected	l: Network Type: F	^o rivate		Autoscan On
Device Name	Password	Quality	Rate(Mbps)	MAC Address
Device 3			125.00	00:1E:E3:00:26:C9
Device 2			92.00	00:1E:E3:00:26:CA
Device 1			98.00	00:1E:E3:00:26:CD
Device 5			120.00	00:1E:E3:00:26:CE
	Rename	Enter Passw	vord Add	d Scan Close

Connect	Click "Connect" and the utility software will scan for other
	local powerline adapters.
Rename	Select a device and click "Rename" to rename the device.
Enter Password	By default, this column is blank. Select a device and click
	"Enter Password" to set up a password for the device.
Add	This button is used to add a remote powerline adapter to
	the existing network.
Scan	Click "Scan" and the utility software will perform an
	immediate scan of other remote powerline adapters. By
	default, the utility automatically scans every few seconds.

4.2 Privacy Tab

In the "Privacy" tab, you can create a private network by changing the default network name and configure its security settings. If the network name is modified to anything other than the default, the network type in the "Main" tab will be changed to "Private".

Edimax PowerLine Utility	
Main Privacy Diagnostics About	
Use this screen to create a Private Network that provides you with extra security.	
OR Use Default (Public Network)	
Do not share the network name with others you do not want to be part of this network.	
After setting the name above, choose how it will be applied below:	
Place On This Network	
Only the device attached to this computer (the Local Device). (Isolates this computer from others):	y I
ALL devices whose Password has been entered. (They communicate together but are isolated from devices with a different network name)	
	Close

Set Local Device Only	This button is used to change the network name and	
Set All Devices	This button is used to change the logical network of all	
	devices that appear in the "Main" tab.	

4.3 Diagnostics Tab

Edimax PowerLine	Utility		10m			
Main Privacy	Diagnostics About					
System Information						
No HomePlug Device Connected						
On NIC #2 MAC = 00:22:19:FC:B8:6C No HomePlug Device Connected						
Computer network name: TINYHSIAONBWIN7						
Remote Device H	listory (Log)			1		
Device	MAC Address	Password	Rate(Mbps)	Network	Last Seen	
Device 1 Device 2	00:1E:E3:00:26:C0	 not entered - not entered - 	98.00	HomePlug	May 09 11:41 May 09 11:41	
Device 3	00:1E:E3:00:26:C9	not entered -	125.00	HomePlug	May 09 11:41	
Device 5	00:1E:E3:00:26:CE	not entered -	120.00	HomePlug	May 09 11:41	
	1	11			4	
	Delete	Save Report	Print Report			
					Close	

The "Diagnostics" tab displays the system information and history of all remote devices.

The upper panel displays technical data concerning the software and hardware on the host computer and the lower panel displays the history of all remote devices.

4.4 About Tab

The "About" tab contains some basic information about the software. You can also enable or disable the autoscan function under "Preferences".

Edimax PowerLine Utility	
Main Privacy Diagnostics About	
NETWORKING PEOPLE TOGETHER	
Edimax PowerLine Utility Version: v6.0.0.0, Build 0002 Released: April 12, 2010 Edimax Technology Co,Ltd. http://www.edimax.cor License Copyrights :	n
Copyright (c) 1999 - 2005 NetGroup, Politecnico di Torino (Italy). Copyright (c) 2005 - 2009 CACE Technologies, Davis (California). All rights reserved.	â
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the	
following disclaimer. Preferences: ✓ AutoScan	•
	Close

Chapter 5: Security Button

This section demonstrates how to add or remove devices from a HomePlug AVLN with the "Security (Group)" button. The "Power" LED indicates the operation status and result.

5.1 Forming a HomePlug AV Logical Network

When two devices with different NMK values are connected to the same powerline and you want them to form a logical network, follow the following procedures:

- **Step 1** Press the "Security (Group)" button on device A for less than 3 seconds.
- Step 2 Press the "Security (Group)" button on device B for less than 3 seconds. This should be done within 1 minute.
- **Step 3** Wait for the connection to complete.

The "Power" LED on both devices will blink evenly at 1-second intervals until the operation succeeds or fails. If the connection succeeds, it will illuminate steadily. If an error occurs, the power LED on the adder will blink unevenly until the "Security" button on the adder is pressed again or the joiner is reset.



5.2 Joining a Network

If you want to add a new device to an existing network, follow the following procedures:

Step 1 Press the "Security" button on the new device for at least 3 seconds.

Step 2 Press the "Security" button on any device in the network for less than 3 seconds.This should be done within 1 minute.

Step 3 Wait for the connection to complete.

The "Power" LED on both devices will blink evenly at 1-second intervals until the operation succeeds or fails. If the connection succeeds, it will illuminate steadily. If an error occurs, the power LED on the adder will blink unevenly until the "Security" button on the adder is pressed again or the joiner is reset.



5.3 Leaving a Network

If you want to remove a device from an existing network, follow the following procedures:

Step 1 Press the "Security" button on the device to be removed for at least 10 seconds.

Step 2 Wait for the device to reset.

The "Power" LED on the device to be removed will momentarily extinguish. It will start to blink after it has restarted. Then it will illuminate steadily if no error occurs. You can then disconnect the device.



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 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:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. 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. Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communications Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 2.5cm (1 inch) during normal operation.

Federal Communications Commission (FCC) RF Exposure Requirements

SAR compliance has been established in the laptop computer(s) configurations with PCMCIA slot on the side near the center, as tested in the application for certification, and can be used in laptop computer(s) with substantially similar physical dimensions, construction, and electrical and RF characteristics. Use in other devices such as PDAs or lap pads is not authorized. This transmitter is restricted for use with the specific antenna tested in the application for certification. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use

None





