PlugLink M by Asoka®

User's Guide PlugLink 9650 Ethernet Adapter PL9650-ETH

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PL9650UG-110105

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Introduction

Thank you for purchasing a PlugLink 9650 Ethernet Adapter (PL9650-ETH) from Asoka. This adapter lets you network your home or office by simply plugging directly into your wall outlet. Now, networking is as easy as plugging in a night light. With your PlugLink 9650 Ethernet Adapter, you can easily share your high-speed Internet broadband, mp3s, video and gaming throughout the home or office without pulling any new cabling.

This unit will not interfere with other household appliances such as hair dryers, vacuum cleaners or microwave ovens. Consuming only 5 watts of power, it is environmentally friendly and will not noticeably increase your electrical bill. It is a simple, secure and reliable choice for web surfing, playing games, complimenting your existing wireless network, mp3 streaming and even high-definition (HD) video sharing.

This User's Guide shows you how to connect your PlugLink 9650 Ethernet Adapter to your PC or cable/DSL router. Setup is easy, just follow the instructions in this guide and your network will be up and running in a matter of minutes.

Important Safety Instruction for the PlugLink 9650 Ethernet Adapter

The following precautions should be taken when using this product:

- Read all instructions before installing and operating this product.
- Do not open the cover on this product and/or alter this product in any way.
- Follow common household electrical safety practices.

If you have any questions or concerns regarding these safety measures, please contact Technical Support at 650-286-0300 or email at <u>support@asokausa.com</u> Monday through Friday from 9:00 am to 5:00 pm PST, excluding holidays.

Learning about your PlugLink 9650 Ethernet Adapter

Package Contents

- PlugLink 9650 Ethernet Adapter (PL9650-ETH)
- 6 feet Ethernet cable
- Quick Installation Guide
- Installation Resource CD
- Warranty and Support Information Card

If any of the parts are incorrect, missing, or damaged, contact the retailer where you made your purchase. Keep the carton, including the original packing materials, in case you need to return the unit for repair.

The Front Panel

The front panel of the PL9650-ETH Adapter contains the status lights described below.



Figure 3-1: PL9650-ETH Front Panel

You can use the status lights to verify connections. Viewed from top to bottom, left to right, the table describes the lights on the front panel of the unit.

Table o Trotatas Eight Deschp	tiens	
Power	On	Indicates Device Powered On
	Off	Indicates No Power
PLC Activity	Blinking	Indicates Activity on Powerline
	Off	Indicates No Activity on Powerline
		(Should blink Intermittently)
ETH Link	On	Indicates Ethernet Connectivity
	Blinking	Indicates Ethernet Traffic
	Off	Indicates No Ethernet Activity

Table 3-1: Status Light Descriptions

The Bottom Panel

The bottom panel of the PL9650-ETH contains an Ethernet (RJ-45) port as shown in figure 3-2.



Figure 3-1: PL9650-ETH Front Panel

The Rear Panel

The label on the rear panel of the PL9650-ETH Adapter contains the items listed below.

- MAC address
- Model number
- Part number
- Serial number
- Unique device password

Note: For future convenience, please write this information down in your Warranty Support Information card.



Figure 3-3: Rear Label

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Preparing to Install the PlugLink 9650 Ethernet Adapter

The PlugLink 9650 Ethernet Adapter lets you set up a home or an office network using your existing electrical outlets. It can also easily compliment your existing network by connecting to any device with a 10BaseT/ 100BaseT Ethernet-capable device.

In order to share a peer-to-peer connection between computers, all you will need is:

• One (1) PL9650-ETH device attached to each computer.



Figure 4-1: Peer-to-peer network diagram.

In order to share a Broadband connection between computers, all you will need is:

- One (1) PL9650-ETH device attached to each computer
- Standard Cable/DSL Modem
- Standard Cable/DSL Router or Wireless Router



Figure 4-2: Sharing broadband connection network diagram.

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You can also use the PlugLink 9650 Ethernet Adapter with other Ethernet enabled device like IP Cameras, IP STB, game consoles, and many more.



Figure: 4-3: Networking other Ethernet enabled devices.

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Installing the PlugLink 9650 Ethernet Adapter

Note: Do not connect the PlugLink 9650 Ethernet Adapter into a power strip, extension cord, uninterruptible power supply (UPS), or surge protector. This may prevent the unit from working properly or degrade the network performance.

- 1. Connect each of your PlugLink 9650 Ethernet Adapters.
 - a) Connect the unit into a nearby wall outlet
 - b) Connect the enclosed Ethernet cable to the Ethernet port of the unit
 - c) Connect the other end of the cable to the Ethernet port of the PC
- 2. Insert the enclosed Installation Resource CD into your CD-ROM drive. The PlugLink 9650 Ethernet Adapter Installation Utility should appear automatically. If it does not appear within 30 seconds, select your CD-ROM drive and double-click on the icon named "Setup.exe" to initiate the Installation Utility.
- 3. The Welcome screen should appear. Click on "Install Driver and Utility" to proceed to installation.



Figure: 5-1: Welcome screen.

4. Click "Next" to begin the installation process.



Figure: 5-2: Begin Installation Screen.

5. Click "Next" to continue Installation.

Powerline Welcome to the Plual ink Turbo Installer	Ethernet Adapter
To install the PlugLink Turbo Installer, click Next then follow the onscreen instructions. To quit, choose Cancel.	 License Select Destination Install Finish Up
Important: Close all other programs before continuing.	

Figure: 5-3: InstallShield Installation Welcome Screen.

6. An End User Software License Agreement (EULA) should appear. Read thoroughly, select "I Accept" and click "Next" to continue.



Figure: 5-4: End User License Agreement screen.

7. Select the destination folder where you want to install and Click "Next".

PlugLink 9650 Powerline D:\PlugLink 9650 Utility	Turbo Ethernet Adapter
My Computer HP_RECOVERY (C:) Removable Disk (D:) Removable Disk (E:) Removable Disk (F:) Removable Disk (G:) Removable Disk (H:) DVD-RW Dive (I:) CD Drive (J:) Removable Disk (C:) Operations on 'Sto1sdco1' (K:) Removable Disk (D:)	 Introduction License Select Destination Install Finish Up
Free	space : 115.9 GB
Select a destination volume to install the PlugLink T	space : 115.9 GB urbo Installer. Installing this software

Figure: 5-5: Installation Destination screen.

8. Click "Begin" to start the installation.

PlugLink 9650 Powerline	Turbo Ethernet Adapter
Installation Status 0% 100%	 Introduction License Select Destination Install Finish Up
elect Begin to start the installation process.	Go Back Begin

Figure: 5-6: Begin Installation screen.

9. Click "Continue" to complete the installation.

PlugLink 9650 Powerline	Turbo Ethernet Adapter
Installation Status 0% 10	 Introduction License Select Destination Install Finish Up
elect Begin to start the installation process.	Continue

Figure: 5-7: Complete Installation screen.

10. Click "Close" to complete the installation.

PlugLink 9650 Powerline	Turbo Ethernet Adapter
Almost done Click Close to finish the installation process .	 Introduction License Select Destination Install Finish Up

Figure: 5-8: Finish Installation screen.

11. A notification window will appear confirming the completion of the installation. Click "OK" to begin the Setup Assistant.

Almost done Click Close to Sain the installShield Wizard Installation finished . Setup Assistant will be execut OK	550 rerline		Ethern	IUrbo et Adapter
	IIShield Wizard	ished . Setup Assist	Infra Lice X	oduction onse tt Destination II h Up

Figure: 5-9: Installation completion notification screen.

Using the Setup Assistant

Setup Assistant will help guide you to configure your PlugLink 9650 Ethernet Adapter.

1. The Setup Assistant automatically starts after completing the installation. You may also start the Setup Assistant manually by clicking on the Setup Assistant icon on your desktop.



2. Click "Next" to begin the Setup Assistant. For advanced users, you may bypass the Setup Assistant and click on "Admin Utility" to manually configure settings. For instructions on using the Admin Utility, go to Chapter 7.



Figure 6-2: Setup Assistant Welcome Screen.

3. Select which application you are using the PlugLink 9650 Adapter for and Click "Next". There are three applications options available.

Online Game/ Internet	Select this if you are going to use the device with your PC or
	game console.
Audio or Video	Select this if you are going to use this device for IPTV or audio and video streaming.
Voice over IP	Select this if you are going to use this device with your VoIP phone.

Table 6-1: Applications options.

Choose what type of traffic you wil the three icons (choose one only)	l use your local PlugLink device	for by clicking on one of
	(A)	
R		
		1
Online Game / Internet	Audio or Video	Voice over IP

Figure 6-3: Applications screen.

4. Select to change the device name and Click "Next". Changing your device name can help enable easier device recognition. For example, you can name the devices according to where each unit is located in your building. (Ex. Bedroom, Office, Living Room, etc.)

Yes	To change device name.
No	To keep the default device name, 'PlugLink(local)'.
Table 6-2: Device Name o	ptions.

Curre devic living	ently, your local device e into a different nam room unit, master be	name is P e so you ca droom unit	lugLink(local) in distinguish f t, etc.	. This option a he devices wit	llows you to ch hin your home.	ange the . For example
Do yo	ou want to change the	local devic	e name?			
Selec	t one below:					
	Yes		C No			
Enter	new local device nar	ne here				

Figure 6-4: Device Name option screen.

5. Select to change the network password and Click "Next". The local device network password screen allows you to change your network password. It is highly recommended to change the network password on all your PlugLink devices. Changing the network password will prevent your neighbors or outsiders from accessing the network.

Yes	To change local device network password.
No	To keep the existing local device network password.
Factory Default	To reset to the default local device network password,
	'HomePlug'.

Table 6-3: Local Device Network Password Options.

Do yo	ou want to change the local o	device Network Pass	word?	
	Yes	C No		
	Enter new Network Passw	vord here		
	Note: Network Password	is case sensitive.		
	C Factory Default			
	If you select this option, it v back to original factory def	will erase previously fault password. The	set password and : factory Default pass	set the password word is HomePlug.

Figure 6-5: Local Device Network Password Screen.

6. Click 'Finish' to complete the configuration and exit the Setup Assistant or Click 'Admin Utility' for advanced settings.

Completed			
Congratulations! Local Devic	e Set up Completed.		
Please click 'Finish' to exit Se	t up Assistant.		
lf you would like perform mor	e advanced set up, pleas	e click 'Admin Utility' belo	JW.
	Back	(Admin Utility)	Finish

Figure 6-6: Setup Assistant Completion Screen.

Using the Admin Utility

The Admin Utility is a tool for Advanced Users. It allows you to manually configure a PlugLink 9650 Ethernet Adapter that is directly connected to your Personal Computer or any PlugLink 9650 Ethernet Adapters that are remotely residing on your PlugLink Powerline network.



Figure 7-1: Admin Utility Icon

The Admin Utility consists of four (4) screens.

Profile Screen

The Profile Screen displays information about all Powerline devices attached directly to your PC and other Powerline devices on your network. The screen displays the Device Name, MAC Address, and Type (local or remote; 14mbps or 85mbps) of connection for each device on your network. To refresh the list of Powerline devices, Click on the 'Rescan' icon. (Note: Devices set up with a different network password will NOT show up on this list.)



Figure 7-2: Profile Screen.

<u>Speed Screen</u>

The Speed Screen displays the speed of your device's connection to the Powerline network. You can check the speed of the other devices by clicking on them.

) 🗗 😭		Click on any device to view its connection speed.
Profile Spee Device Name	ed Device(s) Advance MAC Address	d Rescan Type	
PlugLink(local)	00:13:C1:00:C8:D4	Local	
DevicehaATnP	00:13:C1:02:66:DE	14M	PlugLink, 01010101010 PlugLink,
Device1eAVau	00:0D:09:02:A3:69	14M	in later. I want to a state of the state
DevicehaAvzr	00:13:C1:02:FC:E3	14M	2 00000111110 2
DevicehaAGrM	00:13:C1:00:C8:D8	14M	
			Full Speed
			i un opecu

Figure 7-3: Speed Screen.

<u>Device Screen</u>

The Device Screen displays the names of all the devices on your network. It also allows you to rename devices enabling easier device recognition. To rename the device:

- 1. Double-click on the device you want to rename on the left.
- 2. Enter new device name in the field box on the right and click "Update".
- 3. A confirmation screen will appear to inform you if the device name change was successful or unsuccessful.



Figure 7-4: Device Screen

Advanced Screen

The Advanced Screen allows you to

- Maintain security and application for the device that is attached directly to your PC
- Maintain security for other Powerline devices on your network.

To modify the security and application on a device that is directly connected to your PC:

- 1. Select the device connected directly to your computer on the left panel
- 2. Type the new password in the field box labeled New Network Password.
- 3. Click on the drop down menu next to "Local Device Application."
- 4. Select the application you would like to change to. See table 7.1 for options.
- 5. Click "Update".
- 6. A screen will appear asking if you are sure you want to these changes. Click "Yes".
- 7. A confirmation screen will appear to inform you if the changes were successful or unsuccessful.

Online Game/ Internet	Select this if you are going to use the device with your PC or game
	console.
Audio or Video	Select this if you are going to use the device for IPTV or any video and
	audio streaming.
Voice over IP	Select this device if you are going to use the device for VoIP services.
	(This excludes web-based voice programs such as Yahoo Voice or
	Skype. These should default to the 'Online Game/ Internet' option).

Table 7-1: Local Device Application Options

Device(s) Advance	d Rescan	The option allows you to password remotely, as lo 19-digit password of the select unit, type in the cor password and click "Upd	change the network ing as you have the remote device. Just simply responding 19-digit ate".
MAC Address	Туре		
00:13:C1:03:00:21	Local(85M)		Culling Culling
00:0D:09:02:A3:69	14M	PlugLink, 01010	J101010 PlugLink.
00:13:C1:02:66:DE	14M	8 00111	110000
00:0D:09:02:41:A4	14M		110000
00:13:C1:02:FC:DA	85M		
00:13:C1:02:DA:ED	85M		
00:13:C1:02:FC:AE	14M	Current Network Password	******
00:13:C1:00:C9:79	85M	New Network Password	
		Local Device Application	Online Game/Intern 💌
			Online Game/Internet Audio or Video Voice Over IP
	AC Address Device(s) Advance MAC Address 00:13:C1:03:00:21 00:00:09:02:A3:69 00:13:C1:02:66:DE 00:13:C1:02:FC:DA 00:13:C1:02:FC:DA 00:13:C1:02:FC:AE 00:13:C1:02:FC:AE 00:13:C1:00:C9:79	NAC Address Type 000013:C1:03:00:21 Local(85M) 00:00:09:02:A369 14M 00:13:C1:02:65.DE 14M 00:13:C1:02:76:2A 85M 00:13:C1:02:FC:AE 85M 00:13:C1:00:C9:79 85M	Mac Address Type 00:13:C1:03:00:21 Local(85M) 00:13:C1:02:F0:DA 85M 00:13:C1:02:F0:DA 85M 00:13:C1:00:C9:79 85M

Figure 7-5: Advanced Screen

To modify the security on a device that is remotely connected but on the same Powerline network:

- 1. Select the remotely connected device you would like to change the password on.
- 2. Type in the device password found on the product label located in the back of your device in the field box Device Password.
- 3. Type the new password in the field box labeled 'New Network Password'.
- 4. Click 'Update'.

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- 5. A screen will appear asking if you are sure you want to change the password. Click 'Yes'.
- 6. A confirmation screen will appear to inform you if the password change was successful or unsuccessful.



Figure 7-6: Advanced Screen

<u>Rescan Icon</u>

The Rescan Icon allows you to rescan the devices on the Powerline network.

Technical Support

PLEASE REFER TO THE WARRANTY AND SUPPORT INFORMATION CARD THAT WAS SHIPPED WITH YOUR PRODUCT.

By registering your product at <u>www.asokausa.com/register</u>, we can provide you with faster expert technical support and timely notices of product and software upgrades.

Support Information Phone: 1-650-286-0300 Email: <u>support@asokausa.com</u> URL: <u>www.asokausa.com</u>

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Technical Specifications

Standards Compliance

- HomePlug® I
- IEEE 802.3 10BASE-T Ethernet

System Requirements

Windows[®] 98 SE, 2000, ME and XP OS

Network Protocol

TCP/IP

Network Interface

Ethernet (RJ-45)

<u>Bandwidth</u>

85 Mbps

Operating Frequency

4 to 21 MHz

Modulation Schemes

- Orthogonal Frequency Division Multiplexing (OFDM)
- Symbol Modulation DQPSK
- DBPSK
- ROBO Carrier Modulation

<u>Security</u>

56-bit DES Encryption

Additional Protocols

- Forward Error Correction (FEC)
- Automatic Channel Adaptation

Power Supply

100-240V

<u>LEDs</u>

Power

- PLC Activity
- Ethernet Activity

Dimensions

- Size: 3.5" x 2.4" x 1.8" (L x W x H)
- Weight: 0.276lbs
- Cable length: 6'

Environmental Specifications

- Operating temperature: 32°F to 113°F (0°C to 45°C)
- Operating humidity: 10% to 85% Noncondensing
- Storage temperature: -4°F to 158°F (-20°C to 70°C)
- Storage humidity: 5% to 90% Noncondensing

Electromagnetic Emissions

- FCC Part 15 Class B
- UL (US and Canada)
- CE

FCC 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 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 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.

This device complies with Part 15 of 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 RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Declaration of Conformity

CE

Company Name and Address:	Asoka USA Corporation
	558 Pilgrim Drive
	Unit H
	Foster City, CA 94404 USA
Declares that the Product:	PL9650-ETH, Turbo Ethernet Adapter
Intended purpose:	PLC Ethernet Adapter

Complies with the following the provisions of Council Directives:

89/336/EEC	approximation of the laws of the Member States relating to electromagnetic		
	compatibility (as amended)		
73/23/EEC	harmonization of the laws of Member States relating to electrical equipment		
	designed for use within low Voltage Directive (as amended)		

to which this declaration relates, is in conformity with the following standards and /or normative:

	EN 55022:	Information technology equipment - Radio disturbance characteristics -
		Limits and methods of measurement.
	EN 55022 +	Amendment to CISPR 22: Clarification of its application to
	Draft CISPR	telecommunication system on the method of disturbance measurement at
	I/89/CD	ports used for PLC (Power Line Communication)
	EN 55024:	Information technology equipment - Immunity characteristics - Limits
EMC		and methods of measurement.
	EN 61000-3-2:	Limits for harmonic current emissions (equipment input current \leq to 16A
		per phase)
	EN 61000-3-3:	Limitation of voltage fluctuation and flicker in low-voltage supply
		systems for equipment with rated current \leq to 16A.
	EN 60950:	Safety for information technology equipment including electrical
		business equipment

uhan

Signature

TK Chan Name President Title Dec 1, 2005 Date

Chapter 12

Warranty and Support Information

Thank you for selecting an Asoka product! Please retain the receipt as proof of purchase and write down the information below in case you need to obtain support.

Date of Purchase: ______ Model: ______ Serial No: ______ Device Password: ______ MAC Address:

Warranty

Asoka warrants that (a) the hardware components of the product will be free from defects in materials and workmanship under normal use for one (1) year from the date of purchase when used within the limits set forth in the Specifications section of the User Guide, and (b) the software components will perform substantially in accordance with Asoka's published specifications for ninety (90) days from the date of purchase, but does not warrant that the software will be error-free or free of all defects.

Should a product fail to perform as described in the User Guide within the warranted period, it will be repaired or replaced with the same or functionally equivalent product by Asoka, at its discretion, free of charge provided that you: (a) return the failed product to an Asoka designated repair facility with shipping charge prepaid, and (b) provide Asoka with proof of the original date of purchase. Repaired or replacement products will be returned to you with shipping charges prepaid. Asoka warrants any replaced or repaired product or component for the remainder of the initial warranty period. Replacement products may be refurbished or contain refurbished materials or components. If Asoka, by its sole determination, is unable to restore the product to proper operating condition, it will refund the depreciated purchase price of the product.

This warranty extends only to you, the original purchaser and is not transferable to any subsequent purchasers. Warranty is void on products purchased or used outside the United States. If you have purchased this product outside of the United States, contact your local reseller or distributor with whom you purchased the products from.

This warranty does not apply if, in the judgment of Asoka, the product fails due to damage from shipment, handling, storage, accident, abuse, misapplication or misuse, or if it has been used or maintained in a manner not conforming to product manual instructions, has been modified in any way, or has had any serial number removed or defaced. Repair by anyone other than Asoka or an approved agent will void this warranty. The maximum liability of Asoka under this warranty is limited to the purchase price of the product covered by the warranty. Prior to returning any defective product, the purchaser or the authorized merchant from whom the purchaser originally bought the product must obtain a Return Material Authorization (RMA) number from Asoka. All defective products should be returned to Asoka with shipping charges prepaid. Asoka will not accept collect shipments.

WHILE ASOKA HAS MADE EVERY EFFORT TO PROVIDE CLEAR AND ACCURATE TECHNICAL INFORMATION ABOUT ITS PRODUCTS, ASOKA ASSUMES NO LIABILITY FOR ANY EVENTS ARISING OUT OF THE USE OF THE TECHNICAL INFORMATION OR THE PRODUCT. EXCEPT AS SPECIFICALLY PROVIDED IN THIS AGREEMENT OR AS REQUIRED BY LAW, THE WARRANTIES AND REMEDIES STATED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. ANY AND ALL OTHER WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY RIGHTS ARE EXPRESSLY EXCLUDED. ASOKA SHALL NOT BE LIABLE, UNDER ANY CIRCUMSTANCES, TO ANY PERSON OR ENTITY FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, DAMAGES RESULTING FROM THE USE OR MALFUNCTION OF THE PRODUCTS, LOSS OF PROFITS OR REVENUES, BUSINESS INTERRUPTION, OR COSTS OF REPLACEMENT GOODS, EVEN IF ASOKA IS INFORMED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES.

Technical Support Information

- Online knowledgebase and FAQs

- Free 30-day support from initial call

- Support contact: 650.286.0300; support@asokausa.com

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com