HomePlug to Ethernet Bridge	
User Manual (GHPB01)	
<b>O IDGEAR</b>	

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#### Welcome

Thank you for purchasing one of the most user-friendly networking devices on the market. IOGEAR's HomePlug to Ethernet Bridges are first-class networking devices designed to network your computers at home (or in your small office). This device allows you to set up your home network via the most pervasive medium in your house – the home power lines. It is easy to set up, and it doesn't require any additional wiring in the house.

To better serve you, IOGEAR offers an array of additional USB 2.0, USB 1.1, FireWire, KVM, and other peripheral products. For more information or to purchase additional IOGEAR products, visit us at www.IOGEAR.com

We hope you enjoy using your IOGEAR HomePlug to Ethernet Bridge, another first-rate connectivity solution from IOGEAR.

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#### Overview

IOGEAR's HomePlug Powerline Network Ethernet Bridge allows you to network your home computers through the electric power lines in the house. Setting up a home network has never been so simple, just connect your computer to the HomePlug Bridge via the CAT5 patch cable provided in the package, and then plug the power end to your AC power outlet, you are connected!

This unit is compliant to HomePlug Powerline Specification 1.0 and offers up to 14 Mbps bandwidth while being less prone to interference. By offering 56-bit DES encryption, it is also much more secure than other home networking technologies such as wireless Ethernet.

#### Features

- No extra wires, using the most pervasive medium in your home power lines
- Allows multiple computers to share Internet access, printers, and other resources through the power lines
- Very easy and intuitive to set up and install
- HomePlug Powerline Specification 1.0 compliant
- Up to 14 Mbps bandwidth
- Up to 990' distance through the power lines, far enough for most households
- Worldwide compatibility
- · Low risk of interference by other RF sources
- 56-bit DES encryption assures data security
- Signal will not pass power meter, thus keeping the data safe in the house
- Encryption done by hardware, with no sacrifice on bandwidth
- Most reliable home networking technology

# Requirements

#### System Requirements

- Available AC power outlets in the room.
- Standard home power line wiring.
- Computers with 10/100Base-T adapters, or 10/100Base-T switch/hub.
- When used as a node: Windows 98SE, ME, 2000, XP.
- When used as a bridge: any operating system (OS transparent).

#### Introduction

IOGEAR's HomePlug to Ethernet Bridge allows you to network your computers via your existing home power lines. It offers a data transmission speed of up to 14 Mbps, and reaches up to 990 feet through standard power lines.

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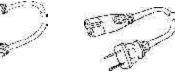
#### Package contents:

1. HomePlug to Ethernet Bridge

- 2. CAT5 patch cable
- 3. Power cable
- 4. User Manual
- 5. Warranty Registration Card



1.



3.

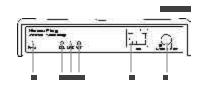
#### Introduction

#### Front View: (Drawing)

- 1. Power LED lights up in green when plugged into a power outlet
- 2. Collision LED lights up in green whenever there is collision
- Link LED lights up in green after plugged into a power outlet
- 4. ACT LED blinks in green when there is network activity
- 5. Ethernet port connecting to the computer
- 6. Normal/Uplink button you only need to use this button when connecting the bridge to a switch/hub. Push this button when connects to the Uplink port on a switch. Another criteria for you to decide whether you need press this button is to look at the light inside the Ethernet port, if it is not on or flashing, you need to press this button.



1. Power port - connecting to the wall outlet





There are several ways to network your computers using the HomePlug Bridge. Before we get started, please NOTE:

Do not place HomePlug devices under direct sunlight or near high heat emitting devices; Do not place HomePlug devices near water or wet surfaces to avoid electric hazards; Do not place HomePlug devices on any moving or unstable surfaces; It is recommended that you plug the HomePlug devices directly into the wall outlets, not to any power

adapters, surge protectors or any device that filters signals.

# If you plan to use this unit as a BRIDGE, not as a NODE; there is a limitation of having only TWO BRIDGES PER NETWORK, (refer to the Network Terms for details):

1. Remove the HomePlug Bridge, the power cord, the CAT5 cable and the installation CD from the package.

2. Allocate a space for the adapter's placement. Make sure you avoid the places mentioned above.

3. Plug one end of the CAT5 cable into the Ethernet port on the computer, and the other end into the Ethernet port of the bridge.

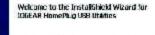
4. Plug the power cord into the HomePlug bridge and wall outlet.

- 5. At this point, the Power and Link LED should be on, and you should see the ACT (Activity) LED start blinking.
- 6. Turn on your computer and set up your networks (refer to Network Basics for more information).

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If you plan to use this unit as a NODE, not as a BRIDGE (refer to the Network Terms for details):

- 1. Remove the HomePlug Bridge, the power cord, the CAT5 cable and the installation CD from the package.
- 2. Allocate a space for the adapter's placement. Make sure you avoid the places mentioned on the previous page.
- Make sure that your HomePlug bridge is NOT CONNECTED TO THE COMPUTER before you install the driver.
- 4. Insert the installation CD. If CD does not automatically load, run (CD Drive Letter):\usb\setup.exe. 5. Click Next.



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(Note: When used as node, thebridge uses the same driver as thehomeplug USB adapter.)



6. Read, understand and accept the License Agreement and Con- tinue by clicking Next.	JE <sup>1</sup> KOGLAR HomePlug CSU Utilities - InstallShield Wizard Ricense Agreement Place and the faller of kines agric mark cardule	
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 Enter a username and organization name, and continue installation. (Username and Organization have no importance in device operation. This window might look slightly different on other platforms.)

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9. After installation is successful, a window will pop up prompting for the installation of the HomePlug Bridge. Plug in the CAT5 cable, one end into the Ethernet port on the HomePlug Bridge, the other end into an available network port on your computer. Please verify that the green Power LED and Link LED on the HomePlug Bridge light up.

 You have reached the end of your installation. Please restart your computer for changes to go into effect.

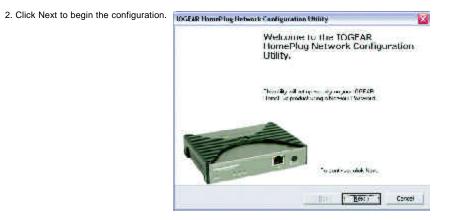




#### HomePlug Node Configuration Steps:

1. After restarting your computer, you should see this icon on your desktop. Click on it to begin configuring your HomePlug device.





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3. Click Next to continue.

 Type in a network password between 4 and 24 characters long and click Next. The password can consist of numbers and/or letters.

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5. Click Next.

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The HISTAD Hawking Metantic Companion. This will now configure you descent the case to a stice boot.

106EAR HowePlug Network Configuration Utility ID6EAR HowePlug Security Select Description of the Security Select

 Once your HomePlug Network has been configured, click Next. If other devices are present on the HomePlug network, their MAC addresses will be shown in "HomePlug Network Devices".

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#### Network Terms

#### What is a node?

A node is any given device that resides or is connected onto an existing network. A computer with a network card connected to a switch is a node. The same thing applies to a Mac connected to a hub.

#### What is a bridge?

A bridge is used when connecting one side of the network with another network. Previously, connecting every computer together with the other network would mean having cables all over the place. Instead a bridge was brought in to have 1 connection between the networks instead of 20. The bridge in the HomePlug terms functions like a concentration device that connects many computers onto the HomePlug network using 1 HomePlug device.

#### How do I know if I require a node or a Bridge?

If you want to connect only one computer to the Power line network, you need a node. If you plan to connect a group of computers currently not HomePlug ready to the Power line network, you need a bridge. The HomePlug USB adapter can only be used as a node. The HomePlug Ethernet Bridge can be used as either a node or bridge. It is designed as a bridge in default; the only way to turn it off is to install the utility software that comes with the unit. That will turn the bridge into a node. If used as bridge, there is a limitation of having only two bridges on the same Power line network.

You will have to use bridges to connect two Macintoshes, because the utility software is only compatible with Windows-based computers.

Can I use both in the same network?

Yes. It is possible to have both nodes and bridges on a network as long as there is only a maximum of 2 bridges. It is also fine to have USB nodes on the same network with Ethernet nodes.

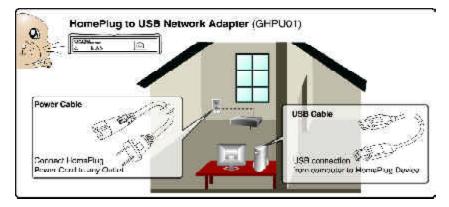
How do I decide whether I need a USB adapter or Ethernet bridge as a node? It should be determined by the available connection on the computer that you plan to connect to the HomePlug network. If the computer comes with a 10/100 Base-T network card, use the bridge; if the computer comes with USB port, use the USB adapter. If the computer comes with both, you can decide which one to use based upon your unique situation.

For Macintosh and other non-Windows based computers, the Ethernet Bridge is the only choice.

#### HomePlug Network Topologies

There are various ways to connect your computers via HomePlug. If all HomePlug units are used as nodes, the topology is usually BUS. If bridges are used to connect two networks together, there maybe both BUS and STAR. The following are several examples.

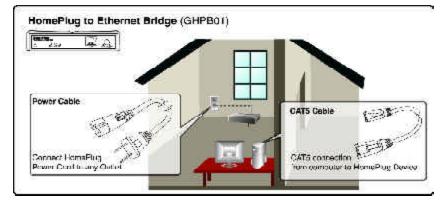
a. Using the HomePlug to USB Adapter ONLY



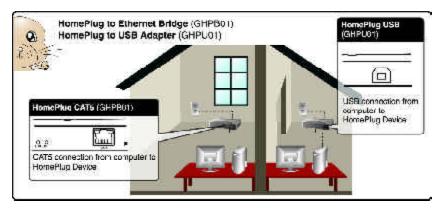
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b. Using the HomePlug Ethernet Bridge (Node Mode) (Several HomePlug Bridges can be used)



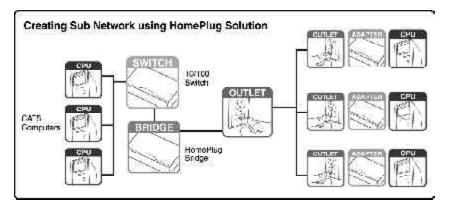
c. Using the HomePlug USB Adapter AND Ethernet Bridge (Node Mode)



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d. Using the HomePlug Ethernet bridge to make a sub network HomePlug ready to communicate with the other HomePlug nodes. (Only 2 Homeplug Bridges can be used.)



Prior to installing HomePlug, you may have had some ideas about using your new network. This section will help you get started on those ideas or even give you some new ones. It will go through the process of sharing files, printing from any computer on the network, or accessing the Internet on multiple computers with one connection. Please note that this section is just an outline of a few networking basics and not intended to be a comprehensive guide to networking.

#### Topic 1: Using Network Setup Wizard in Windows XP/2000

In the following section, you will learn how to set up a network at a home or business, using Microsoft Windows XP/2000.

Go to My Computer>Control Panel>Network Connections. Select "Set up a home or small office network".

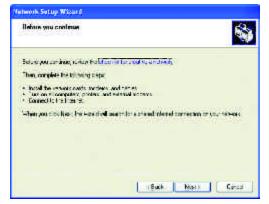
Click "Next" in the window(right) for the Network Setup Wizard.



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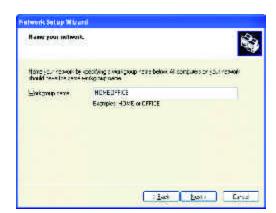
Read and follow the instructions in the following window and then click "Next".



In the following window, select among the 3 options which best describe this computer and then click "Next". If your computer connects to a broadband router/ gateway, select the second option.

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Fill in the information in the following window as you desire and then click "Next".



Enter the Workgroup name as you wish and then click "Next". (Very important: All computers on your network should have the same Workgroup.

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Review the setting in the following screen, and click "Next" to continue. If you want to change any settings, you need to click "Back" and start over again.

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Please wait while the Network Setup Wizard applies the changes and configures the computer.



When the configuration is done, the following screen will come up. Select one of the 4 options according to your needs. (In this example, the last choice was selected.) Click "Next."

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Then click "Finish" on this next window.



The new setting will take effect after you restart the computer. Click "Yes" to restart the computer.



Congratulations, you have completed configuring this computer! After setting up networks on all your computers on the network, you will be able to use your HomePlug network to share files, printers, and Internet connections.

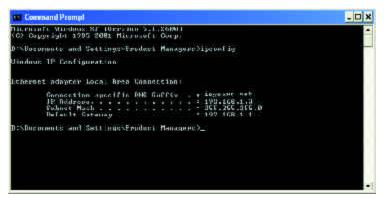
Topic 2: Checking IP addresses in Windows XP/ 2000

#### Go to

Start>Programs>Accessories> Command Prompt.



Type "ipconfig" at the prompt, then press Enter. You will see the IP address of this computer.



#### .....

#### Topic 3: Assigning a Static IP Address

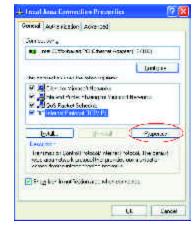
(Note: If you use DHCP-capable gateway/router, you don't need to assign any static IP addresses because the gateway/router will automatically assign IP addresses to the computers on the network.)

Go to Start>Settings>Control Panel>Network Connections>Local Area Connection

Right click on Local Area Connection, then double click on Properties, you will see a window similar to this:

Select "Internet Protocol (TCP/IP)" and then click on Properties.

# **Networking Basics**



At the following window, select "Use the following IP address:", and fill in the desired IP address and subnet mask (it is recommended to use the default subnet mask as shown in the following window. Subnet mask must be the same for all the computers on the network.)

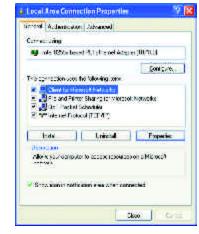
If you need to enter DNS address, you must enter the address of the default gateway.

Click on "OK".

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Click "Close" on the Local Area Connection Properties window.

You have completed static IP address assignment.



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#### Topic 4. Sharing Disks/Folders

Once the network has been checked / configured, you can access other systems via "My Network Places". To allow other systems to access data on your disks / in your folders, you have to give permission to share your disks and/or folders.

1. Select the disk (or the folder) to be shared (for example in "My Computer") and right-click on the icon of the disk to get the Context / popup-menu; select "Sharing and Security."

It is recommended to share only folders instead of the disk drive to avoid any security related issues.



Once you have selected the folder to be shared, right-click to select "sharing and security."

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2. In the following window, click to select "Share this folder". Then click on "Permission".



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 Please note that by default, all users defined on your XP Professional system will have full permissions. You can reduce the permissions (for example to allow only Read-access) and/or you could add a different group of users to have access permission (but then you should delete the group "Everyone" from this list).

In the following Permission settings, make sure you are giving the right permissions and then click OK to accept the settings.

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4. Click OK on the original Sharing and Security window to conclude the process.

5. Once a disk or folder is shared, the icon will show it via the "holding hand."



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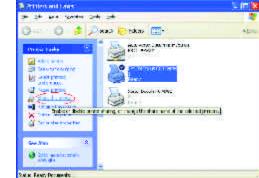
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## **Topic 5. Share Printers**

You may now share any installed printers connected to this computer with other computers on your network.

1. Using the computer that has the printer already connected to it, go to: Start > Control Panel > Printers and Faxes.

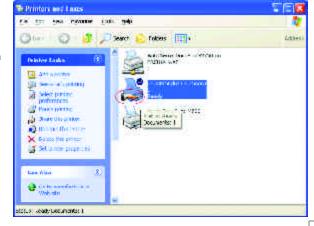
Click on the printer you want to share with others on the network and select "Share this printer".



 In the following window, click on "Share this Printer" and type in the share name you would like. After this is done, click on "Apply" and then "OK".

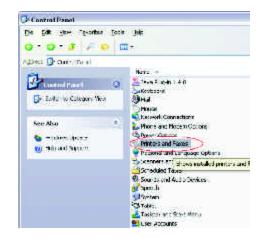
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Now when you go to "Printers and Faxes" in the Control Panel, you will see the supporting hand underneath the printer, which means that the printer is being shared in the network.



For a computer to access a Network Printer, the device driver or software for that printer must be installed and pointed to the proper location of the printer. This is done similarly to the way you installed the printer on the computer it is connected to.

1. Go to a computer that is not connected to the printer and select "Start" from the Task Bar "Control Panel" then "Printers and other Hardware".





3. Select the network printer	Add Veinlar Witzard	
option and click Next.	Landad un Heatenink. Printers The washid needs to know which oper of plinter to set up	
	Select the spiker that contribut the participies want to said.	
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	To set up a network printer their to or affectine to a print server, and five "Local prime" option	
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4. Find the printer you would like to share and click Next.	Add Drinter Wilzard
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You have now added the printer to your computer, click Finish.

Now you may use the Network Printer as if it were directly connected to the computer. Make sure that the computer which is directly connected to the printer is on.



#### **Topic 6. Sharing Internet Access**

So how can the Internet connection be shared among other computers on the HomePlug network?

Since neither the HomePlug Bridge nor USB Adapter are capable of routing at this time, a router is necessary in order to share an Internet connection. Future versions of the HomePlug Bridge or USB Adapter may feature built-in routing capabilities.

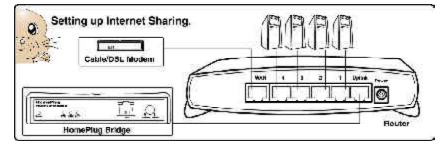
The following items are required for successfully sharing the Internet connection:

One (1) Router One (1) HomePlug Bridge One (1) DSL/Cable Modem Active ISP Service for the DSL/Cable Modem CAT5Cables Also all computers that share the Internet connection must be connected to a

HomePlug to USB Adapter or a HomePlug Bridge.

Please note that only two (2) HomePlug Bridges are allowed on one network if used as bridges (without installation of the software).

Please follow these steps for setting up Internet Sharing:



- a. Make sure that the DSL/Cable modern is connected to the Router (using the WAN port on the router.)
- b. Connect the HomePlug Bridge to the Router (using the Uplink port on the router.) c. Check the link light on the HomePlug Bridge. It must light up green.

#### IMPORTANT:

The HomePlug Bridge MUST connect to the "Uplink" port on the router.

d. Make sure that the computers that need access to the Internet via the HomePlug network are each connected to a HomePlug Adapter or a HomePlug Bridge and reside on the same power grid.

#### **Checking Router Settings:** Please make sure that the following settings on your router are set:

(The setup windows will depend on the router manufacturer's software.)

A) The IP should be obtained automatically;

B) DHCP must be enabled;

# C) Release DHCP and then Renew DHCP to reset the IP Addresses. It is recommended that you verify that IP Addresses are obtained.

Once all the above steps have been completed, all HomePlug connected computers will be able to access the Internet.

#### Frequently Asked Questions/Troubleshooting

- 1. Will HomePlug work in my house or apartment? If the house or apartment was built under U.S. building standards using copper wiring, then it will work.
- 2. What types of security problems will I be facing? If your house is on the same power grid as your neighbor, then there is a potential for a hacker to get in through your neighbor's house. However, this is easily remedied by activating the encryption key on the HomePlug device.
- 3. Will HomePlug work with Mac?

There is currently no software that supports Macs. However, the HomePlug Ethernet Bridge will work with Mac when used as a bridge. Also, by installing Virtue PC software on a Mac, you will be able to install the windows based software under Virtue PC and have this Mac communicate with other PCs on HomePlug network.

4. What is the difference between bridge mode and node mode in the HomePlug Ethernet Bridge (GHPB01)?

Bridge mode operates without software installation and can work with any 10/100Base-T or 10Base-T Ethernet connections. By connecting the bridge to a router, switch, or Ethernet based device (XBOX, PlayStation, Web Tablet, PocketPC, Computer, etc.), you will be able to make these devices bridge onto the HomePlug network. Currently, the GHPB01 only supports 2 bridges per HomePlug Network.

Node mode operates by connecting the HomePlug USB adapter (GHPU01) or Ethernet bridge (GHPB01) to one computer (ONLY) and installing drivers onto the computer, allowing it to set the device into Node Mode. The advantage with Node Mode operation is there is no limitation to the number of nodes that can operate on a HomePlug network.

5. Why do I get a blue screen on boot-up after installation under Windows 98? You probably have Windows 98 Virtual Private Networking Adapter Installed. This adapter

conflicts with the operation of a Bridgedecor.exe file, executed on boot. To repair this problem, go into Windows Safe Mode and disable the Virtual Private Networking Adapter. You can disable the Adapter by right clicking on your Network Neighborhood Icon and clicking on properties. This will list all adapters installed on your computer. Right click and select disable on the adapter labeled Virtual Private Networking. This will allow Bridgedecor.exe to startup correctly on boot.

6. Will HomePlug operate on different Circuit Breakers?

Yes. Circuit breakers do not affect performance of HomePlug devices, however the signal will not pass through the power transformers outside your house.

7. Can Neighbors get my HomePlug signal?

It is possible for your immediate (next door) neighbor to receive residual signal from your HomePlug adapter. Unlikely, but possible. To prevent your neighbors from hacking your network, the best thing you can do is type a different encryption password into your device when setting the encryption password. Note: All devices must have the same password to

be on one network. If devices do not have the same encryption password, they will not be able to communicate with each other.

- What OS does the HomePlug utility software fully support? Windows 98SE, ME, XP, and 2000. Windows NT and Mac are only supported by the HomePlug Ethernet Bridge (Without installing the HomePlug software with default operating mode as BRIDGE, not NODE)
- 9. What is the Range of HomePlug? Approximately 990 feet (300 meters) in wall power lines.
- 10. How does 56bit-DES compare with Wireless 802.11b 128bit-WEP encryption? 56bit-DES is superior because of its DES type Encryption. Just because 802.11B uses 128bit-WEP with more bits doesn't mean the encryption is better. Also, the IOGEAR HomePlug devices use hardware 56bit-DES encryption. With hardware encryption the signal is almost impossible to crack. The hardware encryption process does not affect bandwidth, and the encryption is enabled at all times.

## Getting Technical Support

To help IOGEAR® customers obtain the highest level of performance from their HomePlug devices, the IOGEAR® Service Support team is available to answer your technical questions. Do not hesitate to call if you are having trouble getting your device to work correctly. IOGEAR® Service Support can be reached by phone from 8am to 5pm Pacific Standard Time, Monday through Friday or at the following address:

Toll Free 866-9-IOGEAR (USA & Canada) Phone: 949-453-8782

23 Hubble Irvine, CA 92618

You may also reach us online at www.iogear.com/support 24 hours a day. Please be ready to give a brief description of the problem, and what you were doing when the problem occurred, before calling Service Support. The Service Support representative will be able to serve you much quicker if you are prepared to answer the nine questions listed below.

## Getting Technical Support

- 1) What is the purchase date and serial number of the product?
- 2) Were any messages displayed on the screen when the error occurred? If so, what was the exact wording of the message?
- 3) What type of Computer are you using?
- 4) When does the problem occur?
- 5) Can the problem be reproduced? If so, what are the steps necessary to reproduce the problem?
- 6) What version of the OS are you using?
- 7) Are you on a network? If so, what type of network is it?
- 8) What have you already tried to get the problem resolved?

# **Product Specifications**

Function	GHPD01	
Computer Interface	ICC2 202 3	_
Pala Kalu	· · • • 10-	
Dimensions'		
191411	3.251	
a gle	1*	
60°14	5.25*	
Lousing		
Lase .	a Swint' - Decise	
l umiday	3%4 + 3C %	
(PR):		
ACT-(Astrony)	1	
CONTRACTOR CONTRACTOR OF CONTA	1	
Link	20 C	
Envention	1	
Network Interface	Home? ug Powering	
Parkage Dimension		
Depth	6.751	
-H (16	167	
Main	ir i	
Prover Contemporation	> to another	
Security	S0-b1 DDS Decyptor	
Winsd I	155 18	
	69	

# Limited Warranty

#### Limited Warranty

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