## **Home-LAN Manual**

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## **1 INTRODUCTION**

Home-LAN allows users not only to share local disks and printers over the network, but also to share a single Internet account simultaneous. The computer (configured as Gateway/Server) can share Internet account with the other networked computers. With Home-LAN, Networking is no longer expensive and complex.

#### Ease and convenience

Home-LAN networking use existing telephone wiring as medium for networking PCs. There are no complicated network wiring and administration. With easy networking configuration and ordinary phone wiring, you can network your PC from most any where at home. The provided software handles the complex communications that make traditional networks so hard.

#### **Cost savings**

Home-LAN provides total package of home networking. Give everyone access the networked PCs' sources, such as printers, Internet access simultaneous, files and more.

### 1.1 Package Includes

- A Home-LAN PCI Card
- A Phone Cord
- An Quick Installation
- A CD-Based Software, including drivers for Windows  $95^{\ensuremath{^{\circ}}}$  ,WinGate<sup>TM</sup> Software, Installation Guide

### **1.2 Minimum System Requirements**

- PC with at least a 586 microprocessor (Pentium ® recommended)
- At least 16MB RAM
- At least 8 MB available hard drive space
- Microsoft ® Windows ® 95/98 Operating System
- Available PCI slot
- CD-ROM drive
- For Internet sharing, at least one PC (configured as the Server/Gateway) must have a modem and a valid Internet account.
- You may need Windows 95/98 CD handy (containing the version of Windows currently running on your PC ) because Windows 95/98 may ask for Windows 95/98 CD to copy network components during software installation process.
- You may need phone cords for connecting depending on your network configuration.

# **2 HARDWARE INSTALLATION**

SAFETY PRECAUTION: Turn off your electronic devices, including your personal computer, before you begin to connect and disconnect cables.

### 2.1 Home-LAN Installation

Follow the steps below to install Home-LAN card(s) into your PC(s).

Step 1: With the power to your PC disconnected, remove the PC's casing. Step 2: Press the Home-LAN card firmly into the PCI slot, and secure it with screws to your PC. Step 3: Reinstall the casing on your PC.

### 2.2 Connection Diagram

After installing the Home-LAN cards into your PC, you need to connect your network and related devices. For connecting, you just need:

- Attach the phone cord to the port marked "network" on your Home-LAN card and a nearby phone jack.
- For adding another PC to your Home-LAN network, connect two Home-LANs with phone cord.

The typical Home Network Connection with Home-LAN network solution is illustrated in Diagram 2-1.

We suppose the Server/Gateway PC and Client 1& 2 PCs are located in different rooms in the home.

The three PCs are networked together to share each other over the existing phoneline and Home-LANs.

Diagram 2-1



The left side of the diagram above describes a Home Computer used as a Server/Gateway. **A** Server/Gateway is defined as a system that has an ISP account setup and has a communication device like a modem installed on it for connection to Internet. The Server/Gateway system is connected to a nearby phone jack.

The right side of the diagram describes two clients daisy chained together (multiple connection) with the Home-LAN card. **A Client** is defined as a computer that gets Internet access through the Server/Gateway. Client 1 is connected to a nearby phone jack.

It is recommended to install and configure the Home-LAN card on Server/Gateway first. There must be only one PC configured as Server/Gateway on your Home-LAN network.

# **3 DRIVER INSTALLATION**

After install Home-LAN into your PC, you need to install the driver first; then install WinGate software. This chapter describes the driver installation for your Home-LAN.

### 3.1 Driver Installation for Windows 95

- 1. After installing Home-LAN into your PC, power on your PC.
- 2. Start Windows 95 with provided CD in your CD-ROM drive. The "Update Hardware Wizard" appears announcing the detecting of "PCI Ethernet Controller". Click "Next".

Update Device Driver \	√izard
	This wizard will complete the installation of:
	PCI Ethernet Controller
	by searching your local drives, network, and Internet locations for the most current driver.
	If you have a disk or CD-ROM that came with this device, insert it now.
	It is recommended that you let Windows search for an updated driver. To do this, click Next to continue.
<b>`</b>	
	< Back Next > Cancel

3. Windows 95 will find and install the appropriate drivers. Click "**Finish** ". Then Windows will copy necessary files into your hard disk.

Update Device Driver Wizard	
	Windows found the following updated driver for this device: Conexant Askey RS7112 HLAN/V.90 Adapter If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver
<b>○</b>	Other Locations
< <u>B</u> ack [Finish] Cancel	

## Note: If Windows can not locate the drivers for your new hardware, please click "Other locations..." to locate your CD-ROM drive.

4. When prompted with the message box below, please type the drive letter of your CD-ROM and press "**OK**".

Copying	Files	×
_	The file 'neth.msg' on (Unknown) could not be found. Setup could not find a file on the specified path. If the path appears below, make sure it is correct. Click OK to try copying again.	OK Cancel
	Copy files from:	<u>D</u> etails

5. Click "Yes "to restart your computer.

System Settings Change 🛛 🔀		
?	To finish setting up your new hardware, you must restart your computer.	
	Do you want to restart your computer now?	
<u>Yes</u> <u>N</u> o		

Note: It is better to complete the driver installation of all networked stations before installing the WinGate software.

6. After restart Windows 95. The "Update Device Driver Wizard" appears announcing the detecting of "PCI Communication Device". Click "**Next**".

Update Device Driver Wizard		
	This wizard will complete the installation of:	
	PCI Communication Device	
	by searching your local drives, network, and Internet locations for the most current driver.	
	If you have a disk or CD-ROM that came with this device, insert it now.	
	It is recommended that you let Windows search for an updated driver. To do this, click Next to continue.	
$\Rightarrow$		
	< Back Next > Cancel	

7. Windows 95 will find and install the appropriate drivers. Click "**Finish** ". Then Windows will copy necessary files into your hard disk.

Update Device Driver Wizard	
	Windows found the following updated driver for this device: Conexant PCI LAN/Modern Enumeator If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver
<b>~</b>	Other Locations
< <u>B</u> ack Finish Cancel	

- Note : If Windows can not locate the drivers for your new hardware, please click "Other locations... " to locate your CD-ROM drive.
- 8. Windows may ask for your Windows 95 installation disk (caused by the famous Windows 95 bug); click "**OK** ".

Insert Dis	sk 🛛 🕅
8	Please insert the disk labeled 'WINDOWS Installation Disk', and then click OK.

9. With the Home-LAN CD in your CD-ROM driver, then browse and open your CD-ROM drive. Then click " **OK** " .

Copying	Files	×
4	The file 'dpal.vxd' on WINDOWS Installation Disk could not be found. Insert WINDOWS Installation Disk into the drive selected below, and click OK.	OK Cancel
	Copy files from:	<u>S</u> kip File <u>D</u> etails <u>B</u> rowse

10. Windows 95 will find and install the appropriate drivers. Click " **Finish** ". Then Windows will copy the necessary files into your hard disk.

Update Device Driver Wizard	
	Windows found the following updated driver for this device: Conexant HCF V90 56K DATA Fax PCI Modem If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver
	Qther Locations < <u>B</u> ack Finish Cancel

11. Configure your system either as a Gateway/Server or a Client for Internet sharing. Click "OK".

Server-Client selection	х
PCnet-Home solution allows you to share Internet access using a single Internet Service Provider (ISP) connection via a modem or a similar device.	
One of your computers may be used as a Gateway/Server to share Internet access with other computers. The other computers can be configured as Clients.	
A Gateway/Server is a system that has a direct link to the Internet Service Provider (ISP) through a modem or other connecting device. It is recommended to have only one Gateway/Server on your home network.	
A Client is a computer which uses the services of a Gateway/Server to access the Internet.	
Please choose one of the following	
Client C Gateway/Server	
ОК	

12. Run the "WinGate.exe " by opening the WinGate folder from the provided CD.Option 1: If you choose Gateway/Server, proceed to Section 4.1 for WinGate installation.Option 2: If you choose Client, proceed to Section 4.2 for WinGate installation.

### 3.2 Driver Installation for Windows 98

- 1. After connect Home-LAN to your PC, power on your PC and Home-LAN.
- 2. Start Windows 98 with Home-LAN CD in your CD-ROM driver. The "Add New Hardware Wizard" appears announcing the detecting of "PCI Ethernet Controller". Click "Next".

Add New Hardware Wiz	ard
	This wizard searches for new drivers for: PCI Ethernet Controller A device driver is a software program that makes a hardware device work.
	Cancel Cancel

3. With the "Search for the best driver for your device" checkbox selected, click "Next".

Add New Hardware Wis	and
	What do you want Windows to do? Search for the best driver for your device. [Recommended]. Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next> Cancel

4. Select "CD-ROM drive", and click "Next".

Add New Hardware Wiz	and Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.  Ecoppy disk drives  CD-RDM drive Microsoft Windows Update
	<u>Microsoft Windows Update</u> Specify a Jocation:     G:WWinSS.drvUNF
	Browsen

5. Windows will find the location of the driver file; click "Next".

Add New Hardware Wizard	
	Windows driver file search for the device:
	Conexant LANfinity Fast Ethernet Adapter
	Windows is now ready to install the best driver for this device. Dick Back to select a different driver, or click Next to continue.
🕉 🏤 🛛	Location of driver:
	G VNETCN61XINF
	< Back Next> Cancel

6. Windows 98 may ask you to insert Windows 98 CD-ROM for installing the Windows 98 networking services.

Insert Di	sk 💌
8	Please insert the disk labeled 'Windows 98 CD-FIDM', and then click OK.
	OK

6-A. Insert the Windows 98 CD-ROM or specify the correct path to Windows 98 install files on your computer; then click "**OK**".

Copying	Files	X
<b>_</b>	The file 'dhoposvo.dll' on Windows 98 CD-ROM cannot be found.	OK
	Setup could not find a file on the specified	Cancel
	path. If the path appears below, make sure it is convert. Click OK to the conving again	
	is contect. Click on to try copying again.	<u>S</u> kip File
	Copy files from:	<u>D</u> etails
	G:\	

#### Note: Windows may take a few minutes to copy all necessary files. Please wait for the next step.

6-B. Windows 98 may ask you to insert Home-LAN driver for installing the Home-LAN driver. Follow the instruction; then click "**OK**".

Copying	Files	X
ہے	The file 'rss61x.sys' on (Unknown) cannot be found.	OK
	Course and don't find a file on the second of	Cancel
	path. If the path appears below, make sure it	
	is correct. Llick UK to try copying again.	<u>S</u> kip File
	Copy files from:	<u>D</u> etails
	G:V 💌	

Note: Windows may take a few minutes to copy all necessary files. Please wait for the next step.

7. Click "Finish" to complete the installation for Windows98.



8. Click on "Yes " to restart your computer.

System	Settings Change 🛛 🔀		
?	To finish setting up your new hardware, you must restart your computer.		
	Do you want to restart your computer now?		
	<u>Y</u> es <u>N</u> o		

## Note: It is better to complete the installation of all work stations (clients) before installing the WinGate application.

9. After restart Windows 98, The "Add New Hardware Wizard" appears announcing the detecting of "PCI Communication Device". Click "Next".

Add New Hardware Wizard	
	This wizard searches for new drivers for: PCI Communication Device A device driver is a software program that makes a hardware device work.
	Cancel

10. With the "Search for the best driver for your device" checkbox selected, click "Next".

Add New Hardware Wiz	ard
	What do you want Windows to do? Search for the best driver for your device. [Recommended]. Display a list of all the drivers in a specific location, so you can select the driver you want.
	< Back Next> Cancel

11.Select "CD-ROM drive", and click "Next".

Add New Hardware Wi	zard
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search. Eloppy disk drives CD-RDM drive Microsoft Windows Update
	Specify a location:  G:\  Fromme  Fromme
	<back next=""> Cancel</back>

12. Windows will find the location of the driver file; click "Next".

Add New Hardware Wiz	sand
	Windows driver file search for the device:
	Conexant PCI LAN/Modern Enumentor
	Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
🏽 🍪 🌧 🛛	Location of driver:
	G: VRSS1804M.INF
Ť	
	<back next=""> Cancel</back>

Note: Windows may take a few minutes to copy all necessary files. Please wait for the next step.

13. At this point you have successfully completed the hardware and driver's installation for Windows98. Click " **Finish**".



14. Configure your system either as a Gateway/Server or a Client for Internet sharing. Click "OK".

Server-Client selection	×
	1
PCnet-Home solution allows you to share Internet access using a single Internet Service Provider (ISP) connection via a modem or a similar device.	Sec. 2
One of your computers may be used as a Gateway/Server to share Internet access with other computers. The other computers can be configured as Clients.	12 3
A Gateway/Server is a system that has a direct link to the Internet Service Provider (ISP) through a modem or other connecting device. It is recommended to have only one Gateway/Server on your home network.	
A Client is a computer which uses the services of a Gateway/Server to access the Internet.	
Please choose one of the following	
Client     Gateway/Server	
[OK]	

15. Run the "WinGate.exe" by open the folder "WinGate" from the provided CD.

**Option 1:** If you choose Gateway/Server, proceed to Section 4.1 for WinGate installation. **Option 2:** If you choose Client, proceed to Section 4.2 for WinGate installation.

# **4** WINGATE<sup>TM</sup> INSTALLATION

The WinGate<sup>TM</sup> software gives you access to the configuration and administrative controls for the Home-LAN network. Install the WinGate<sup>TM</sup> software on PCs that you want to give access to these controls.

### 4.1 WinGate<sup>™</sup> Installation for "Gateway/ Server"

Step 1: After driver installation, click "Start", and then choose "Run".

- Step 2: Click the "Browse" button, and look in your CD-ROM drive.
- Step 3: Select the "Wingate" folder. Then select the "setup.exe" file and click the "Open" button.

Step 4: Click "OK".

Step 5: Home Network Setup Wizard appears to guide you through the setup process of WinGate software; click "**Next**" and follow the onscreen instructions to finish the installation.

Step 6: When Windows asks your computer's name again, make sure the name must be unique from

	Home Network Setup Wizard
	CHOOSING YOUR COMPUTER NAME
(oei	You wust give this computer a wome that is differentificen all the other computers or your home retreak. This unique name will be used to identify this computer to others in your home. The retree may be up to 15 sharecters long, but may not cantele black speace.
m graphics)	Please enter o unique nome for fils computer. Example: Study Ded's-deck
deerfield car	WinGate Home

other computers. Then click "Next".

Step 7: Choose "This will be the first computer on my home network..." Click "Next".

ſ	Home Network Setup Wizard
(oem graphics)	Betap will now install the Microsoft Networking software you will exert far your home retwork. To assist Setup is properly configuring your computer, please indicate whether you already have an existing home retwork.
Commission interventi latera Missen deservisei z comm	WinGate Home

Step 8: It will take 30-45 seconds for configuration; then the computer will restart automatically.



Step 9: When prompted with "Network Snapshot" box, click "Next".

Step 10: Choose "Typical" or "Custom" to set your sharing disk, files etc.

Step 11: Click "Next" to restart your computer.

Step 12: When prompted with "Congratulation" window, click "Finish" to complete the installation.

Step 13: Double click "GateKeeper" icon on the Microsoft Windows taskbar.



Step 14: Click "Dialer" from "Option" menubar on the main screen of WinGate.

Step 15: With "Connect as required using..." selected, then select your target ISP connection. Click "OK".

Dialer Properties		
General		
🔽 Connect as req	uired using	seednet 🔽
🔲 On failure, try to	o connect usin	g 🔽
Connection	Status	
le seednet	Off Line	
Allow remote cl	ients to discon	nect
		Dial Beset
	ОК	Cancel Apply

Step 16: With "Enable this connection to be used by WinGate" selected, then type your personal information, such as "Username", "Password" etc. Be sure that the information you type must be the same settings with your target ISP connection. Click "**OK**".

쵫 P	roperties for seednet			×
G	eneral			
	Connection Connection Username Password Domain	ion to be (  ap67381  *******	used by WinGate	
	Try to connect	]3	times	
[	Disconnection			
	Disconnect after	180	seconds of inactivity	
			OK Cancel	

### 4.2 WinGate<sup>™</sup> Installation for "Client"

- Step 1: After driver installation, click "Start", and then choose "Run".
- Step 2: Click the "Browse" button, and look in your CD-ROM drive.
- Step 3: Select the "Wingate" folder. Then select the "setup.exe" file and click the "Open" button.
- Step 4: Click "OK".
- Step 5: Home Network Setup Wizard appears to guide you through the setup process of WinGate software; click "**Next**" and follow the onscreen instructions to finish the installation.
- Step 6: When Windows asks your computer's name again, make sure the name must be unique from other computers. Then click "**Next**".

	Home Network Setup Wizard
	CHOOSING YOUR COMPUTER NAME
(oe	You must give this computer a same that is differention all the other computers or your home network. This unique name will be used to identify this computer to others in your home. The name may be up to 15 characters long, but may not canterin black spaces.
im graphics)	Please anter o anique nome for this computer. Example: Study Dedfo-deals.
Commission lines Water	WinGate Home (Bak Ser)

Step 7: Choose "I am adding this computer to an exist home network..." Click "Next".

ſ	INSTALLING MICROSOFT NETWORKING SOFTWARE
(oem graphics)	Extep will now inviate the Microsoft Networking software you will need to your home network. To assist Settep is properly configuring your computer, please indicate whether you already from a setting home network: This will be the first computer on my home network and the computer that will share its Internet connection with the home network, and they denectly installed this software on the first computer on my home network.
Constituted Linus Hand dearfield care	WinGate Home

Step 8: "Adding a New Computer to your Home Network" box appears. Make sure all the requirements listed on the box are met before proceeding. Then click "**OK**".

Adding a	New Computer to Your Home Network. 📧
٩	For Setup to conectly configure this computer, all of the computers on your existing home network
	<ul> <li>must be physically attached to the network (all cables properly connected).</li> <li>must be turned on and working properly.</li> <li>must not be in Sleep mode,</li> <li>and must be properly logged on to the network.</li> </ul>
	Before restarting this computer, please ensure that all the other computers on your home network neet these requirements.
	To restart your computer and continue Setup, press OK.
	OK

Step 9:It will take 30-45 seconds for configuration; then the computer will restart automatically.



Step 10: When prompted with "Network Snapshot" box, click "Next".

Step 11: Choose "Typical" or "Custom" to set your sharing disk, files etc.

Step 12: Click "Next" to restart your computer.

Step 13: When prompted with "Congratulation" window, click "Finish" to complete the installation.