

User's Guide

Mini Book PC

For Intel & Windows & Linux Compatible
Operating Systems

Disclaimer

The manufacturer shall not be liable for errors contained herein or for incidental consequential damages in connection with the furnishing, performance, or use of this material. This document contains proprietary information which is protected by copyright. All rights reserved. No part of this document may be photocopied, reproduced, or translated into another language without the prior written consent of the manufacturer. The manufacturer reserves the right to revise this publication and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes. The manufacturer also reserves the right to change the specification without notice and may therefore not coincide with the contents of this document. The manufacturer assumes no responsibilities with regard to the performance or use of third party products.

Trademarks

Microsoft and MS-DOS is a registered trademark of Microsoft Corporation.

Windows and Windows Sound System are trademarks of Microsoft Corporation.

Intel and Intel Pentium III are registered trademarks of Intel Corporation.

All other brands or product names mentioned in this manual are trademarks or registered trademarks of their respective companies.

Document Version 1.0

Printed in Taiwan

December 2000

FCC Notice

This equipment generates and uses radio frequency and may cause interference to radio and television reception if not installed and used properly. This has been tested and found to comply with the limits of a Class B computing device in accordance with the specifications in Part 15 of FCC Rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. 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.

⇒ *The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices. Failure to do so may violate FCC rules. Changes or modification not covered in this manual must be approved in writing by the manufacturer's Regulatory Engineering department. Changes or modifications made without written approval may void the user's authority to operate this equipment.*

Canadian Doc Notice

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

Telephone and modem information

Some telephone companies require that you notify the local business office when you hook up a modem to their lines.

The internal modem complies with part 68 of the FCC rules.

Welcome to Your User's Guide

Welcome to the Mini-Book PC

User's Guide. This manual covers everything you need to know in learning how to use your Mini Book personal computer. This manual also assumes that you know the basic concepts of DOS, Windows and the PC.

Note that your computer comes in different configurations and options so some of the features mentioned in this manual might not be included or slightly different from the one you got. Contact your dealer for more information and latest update.

What Does This Manual Covers?

This manual covers the following information:

Chapter 1	Gives introduction on the features and parts of your computer.
Chapter 2	Provides instructions on how to prepare your computer for immediate use.
Chapter 3	Describes how to operate the built-in features of your computer.
Chapter 4	Illustrates how to connect external desktop devices to your computer.
Chapter 5	Explains how to use the System BIOS Setup program.

Where to Find Additional Information

To find additional information and technical support for your computer, please first contact your dealer.

Accompanying Your Computer

Congratulations for having purchased your new Mini-Book PC. You will start doing a lot of great and fun things with your computer. Along with your computer comes several items which you need to check inside the box. See photo below and compare:

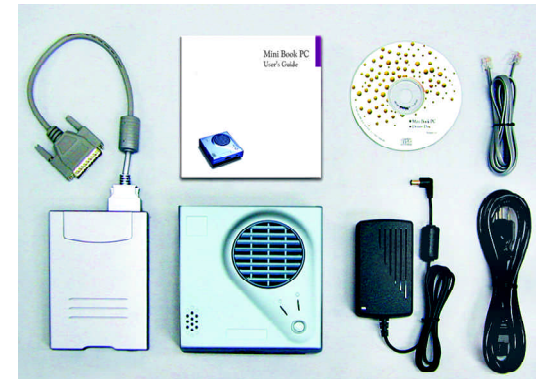


Figure 0-1 Standard Out-of-the-Box Computer Items

Contents

Welcome to Your User's Guide / 5

What Does This Manual Covers? / 5
Where to Find Additional Information / 5

Accompanying Your Computer / 7

Chapter 1 Getting Acquainted / 10

Introduction / 12
Inside Features of the Computer / 12
Overall View of the Computer / 14
Front of the Computer / 15
Left Side of the Computer / 16
Right Side of the Computer / 16
Back View of the Computer / 17
Underside of the Computer / 18
Accessories and Options / 18

Chapter 2 Getting Started / 19

Devices You Need to Get Started / 20
Connecting the External Keyboard / 20
Connecting the External Mouse / 21
Connecting the External Monitor / 21
Connecting the AC Power Source / 22
Starting Your Computer / 23
Installing the Device Drivers / 24

Turning Off Your Computer / 32

Chapter 3 Learning the Basics / 33

Starting Your Operating System / 34
Using the Floppy Disk Drive / 34
Working with the Built-in Hard Disk / 35
How to Access the CD-ROM Drive / 35
Using the Built-in Internal Modem / 37
Using the Built-in Internal LAN / 39

Chapter 4 Connecting to Other Devices / 40

Using a Serial Port / 41
Connecting to a Parallel Printer / 41
Connecting to Your TV / 42
Using USB Devices / 43

Chapter 5 The BIOS Setup Program / 45

Entering the BIOS Setup Program / 46
Using the Standard CMOS Setup / 47
Using the Advanced CMOS Setup / 48
Using the Power Management Setup / 50
Using the PCI/Plug and Play Setup / 51
Using the Peripheral Setup / 53
Using the Auto-Detect Hard Disks / 54
Using the System Password / 54
Auto Configuration with Optimal Settings / 55
How to Exit the Setup Program / 55
How to Upgrade the BIOS / 55

Chapter 6 Troubleshooting & Maintenance / 57

General Safety Guidelines / 58
Protecting Against Electricity / 59
Maintaining Your Hard Disk / 59
Troubleshooting For Starters / 60
Basic System Troubleshooting / 60
Preparing for Computer Service / 62

CHAPTER 1

Getting Acquainted

This chapter provides a quick tour of the Mini-Book PC and identify its important parts. Becoming familiar with these terms and locations will help as you read the rest of the manual.

Contents

Introduction / 12
Inside Features of the Computer / 12
Overall View of the Computer / 14
Front and Top of the ComPUter / 15
Left Side of the Computer / 16
Right Side of the Computer / 16
Rear View of the Computer / 17
Underside of the Computer / 18
Accessories and Options / 18

1.1 Introduction

Your Computer is a full-featured Mini-Book PC that is small, lightweight and compact. This PC runs on a whole wide range of general business and personal productivity applications, making it ideal for use in the office, at home.

1.2 Inside Features of the Computer

Before we go on identifying each part of your PC, let us first summarize its other notable features

Processing Unit

- Runs on the latest Intel Socket 370 Pentium III CPU that includes 256KB Advanced Transfer Cache. Available in CPU clock speeds starting at 500MHz.
- Also can run on Intel Socket 370 Celeron CPU that includes 128KB L2 cache with several clock speeds starting at 500MHz.
- System bus frequency at 66MHz, 100MHz and 133MHz.
- Intel processor ensures your PC is fully compatible with an entire library of PC software based on several operating systems especially Windows 98, Windows ME, Windows NT, Windows 2000, and Linux

Main Memory

- Provides one 144-pin SODIMM (Small Outline Dual Inline Memory Module) memory slot for main system memory configuration up to maximum 256MB.
- Uses PC-100 SDRAM SODIMM module at 64MB, 128MB, and 256MB module.

Audio System

- Built-in 16-bit stereo Sound Blaster compatible, full duplex 3D Stereo Sound.
- Built-in Speaker
- One 3.5mm microphone input jack
- One 3.5mm Line-out jack for external speaker

Flash BIOS

- Flash EPROM BIOS allows you to easily upgrade the System BIOS using the Flash utility program.

Storage

- Built-in high-capacity 2.5-inch (9.5mm high) Hard Disk Drive and supports Ultra-DMA 33/66.
- Built-in CD-ROM or DVD-ROM or CD-RW drive.
- Parallel port External Floppy Disk Drivr.

Video

- Built-in full-motion video accelerator
- Hardware motion compensation for Software MPEG-2 (DVD playback).
- Integrated 4MB shared Memory.
- Supports up to 1280 by 1024 pixel resolution at 24-bit color.
- 15-pin mini D-sub VGA connector for external monitor.
- S Video Port.
- AV Video Port.

I/O Ports

- Two USB ports.
- One 9-pin Serial Port (RS-232).
- One 25-pin Parallel port (EPP/ECP).

- One 6-pin PS/2 Mouse Port
- One 6-pin PS/2 Keyboard Port

Communications

- Built-in Internal 10/100Base-T Ethernet LAN (RJ-45 port)
- Built-in internal 56K V.90 modem card (RJ-11 port)

1.3 Overall View of the Computer

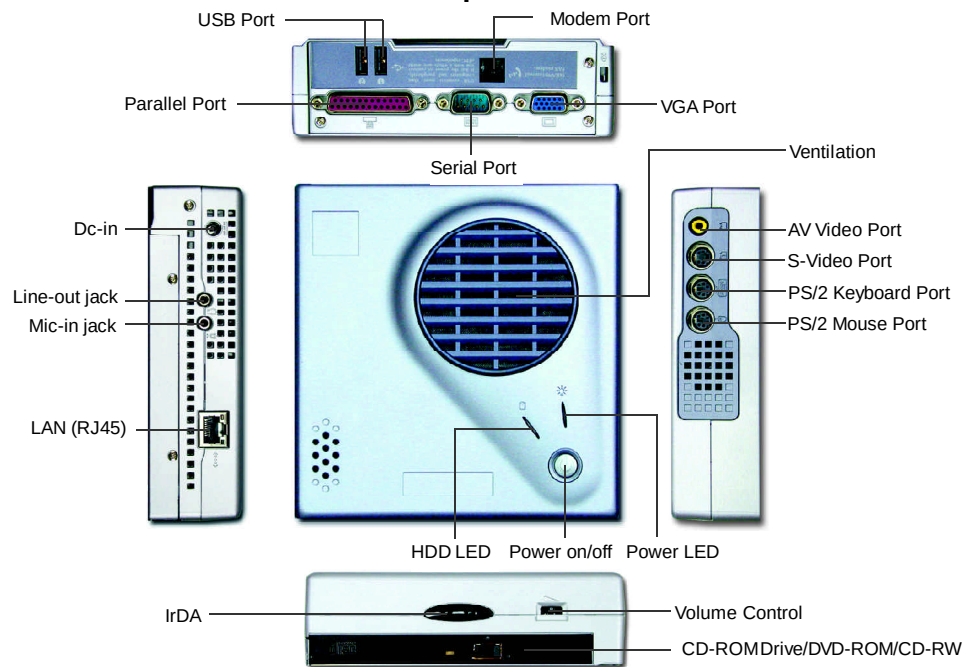


Figure 1-3 Overall View of the Computer

1.4 Front and Top of the Computer

The front of the computer has the following functions:

Power Button

- For turning on or off the power of the computer.

Built-in Speaker

- Built-in speaker for audio playback output.

Ventilation

- CPU fan exhaust ventilation for emitting hot air produced inside by the computer.

Built-in CD-ROM / DVD-ROM

- Built-in high-speed CD-ROM or DVD-ROM drive with enhanced IDE interface. Also provides optional CD-RW drive.
- Compatible with MPEG CD, Video CD, Photo CD, Karaoke CD, and Audio CD or CD-DA.

Volume Control

- Manual volume control knob for adjusting the volume output.

IrDA, Infrared Data Association

- IrDA compliant transceivers 115Kb/s IrDA devices provide walk-up, point-to-point methods of data transfer that is adaptable to a broad range of computing and communicating devices.(Ex: notebook PC's, cellular phones, PDA's, printers, digital cameras and industrial handheld devices etc..)

1.5 Left Side of the Computer

The left of the computer has the following functions:

LAN Port (RJ45)

- Built-in 10/100Base-T Fast-Ethernet LAN with RJ-45 jack.

MIC-In Jack

- One MIC-IN jack for connecting an external microphone.

Line Out Jack

- One Audio LINE-OUT jack for connecting a two-way stereo speaker, earphone, or headphone.

DC-In Jack

- For connecting the AC power adapter in supplying continuous power to your computer. (DC18V,3A).

1.6 Right Side of the Computer

The right side of the computer has the following functions:

PS/2 Mouse Port

- For connecting an external PS/2 mouse.

PS/2 Keyboard Port

- For connecting an external PS/2 keyboard. You can also connect an IBM PC/AT-compatible enhanced keyboard by adding a keyboard adapter.

S-Video Port

- Provides one S-Video jack for VGA output display to NTSC/PAL television systems.

AV Video Port

- Provides one AV (RCA) jack for VGA output display to NTSC/PAL television systems.

1.7 Rear View of the Computer

The rear side of the computer has the following functions:

VGA Port

- Connects to external 15-pin VGA color desktop monitor with up to 1280x1024 resolution at 24-bit true color.

Serial Port

- One 9-pin Serial Port (COM1) for connecting external pointing device and high-speed modem. Conforms to IEEE UART RS-232 standard.

Parallel Port

- One 25-pin enhanced bi-directional parallel LPT Port for connecting parallel devices and network adapters. This port can also be used to connect the optional external Floppy Disk Drive.

Modem Port (RJ11)

- Built-in internal modem for connecting to the Internet or sending fax.

USB Port

- Built-in two external USB ports for connecting USB devices like mouse, printer keyboard, camera, FDD, and file link cable etc...

1.8 Underside of the Computer

The underside of the computer has the following functions:

Internal Modem Compartment

- This compartment houses the Built-in internal 56K/V.90 modem.

1.9 Accessories and Options

It is also important to understand the accessories that come along with your Mini-Book PC and how they help make you work efficiently. This section describes briefly what these accessories can do for you and what other options you have.



Figure 1-9 Accessories

AC Adapter and Power Cord

The AC Adapter supplies external power to your PC. The AC adapter has an auto-switching design that can connect to 100-120VAC ~ 220-240VAC power outlets. Connect the adapter to the AC wall outlet using the power cord.

External Floppy Disk Drive (FDD)

Your computer supports a parallel external port floppy drive for using diskettes.

CHAPTER 2

Getting Started

This chapter provides quick and easy steps on setting up your computer for immediate use. This also includes what external devices you need to attached to make a full operating PC. You also need to learn how to install the needed device drivers for using the built-in features of your PC. You are advised to read through Chapters 1 and 3 first before operating your computer. Chapter 3 tells more on how to use the basic features of your computer.

Contents

Devices You Need to Get Started /	20
Connecting the External Keyborad /	20
Connecting the Mouse /	21
Connecting the Monitor /	21
Connecting the AC Power Source /	22
Starting Your Computer /	23
Installing the Device Drivers /	24
Turning Off Your Computer /	32

2.1 Devices You Need to Get Started

Before you can actually use your computer, you need first to connect the following devices:

- External Keyboard
- External Mouse
- External Monitor
- AC Adapter

2.2 Connecting the Keyboard

At the right of your computer, you will find the 6-pin mini-DIN PS/2 keyboard port. This port allows you to connect an external full-sized PS/2 desktop keyboard.

To connect the external keyboard:

1. Make sure the computer is turned off.
2. Connect the keyboard directly to the PS/2 keyboard port.
3. When turning on your computer later, check the LEDs of the external keyboard if they flash or activates.



Figure 2-3 Connecting an External Keyboard

⇒ Do not disconnect or connect the external keyboard when power is on. Turn off the computer first.

2.3 Connecting the Mouse

Also at the right of your computer, you will find the 6-pin mini-DIN PS/2 mouse port for connecting an external PS/2 mouse.

To connect the external PS/2 mouse:

1. Make sure the computer is turned off.
2. Connect the PS/2 mouse directly to the PS/2 mouse port. Make sure not to connect the mouse to the PS/2 keyboard port.
3. When turning on your computer later, your operating system should be able to instantly detect your mouse for immediate use. You do not need to install the mouse driver except when you want to install its additional software.



Figure 2-3 Connecting an External Mouse

⇒ Do not disconnect or connect the external mouse when power is on. Turn off the computer first.

2.4 Connecting the Monitor

Your computer has a 15-pin VGA port for connecting any external VGA color monitor with maxi-

mum display resolution of 1280x1024 resolution at 24-bit true colors.. You need to connect an external monitor to see the output display of your computer. The external monitor should have its own external powersource.

To connect an external monitor:

1. Make sure that the computer is turned off.
2. Plug in the power of your monitor. Make sure to use a monitor with external power.
3. Connect the connector cable of the monitor to the VGA port at the rear of your computer. Turn on the power of your monitor.
4. When you turn on the power of your computer later, you should see the display in your monitor screen. You can adjust the brightness and contrast controls in your monitor to suit your viewing level.



Figure2-4 Connecting an External Monitor

2.5 Connecting the AC Power Source

The AC adapter provides external power source to your computer. The AC adapter also has an auto-switching design that can connect to 100-120VAC ~ 220-240VAC power outlets.

To connect the power adapter:

1. Plug the AC power cord into the power socket of the AC power adapter.
2. Plug the other end of the AC power cord to a live AC wall outlet. The power LED on the power adapter should be turned on.
3. Plug the connector of the AC adapter to the DC-IN port found at the left side of the computer.

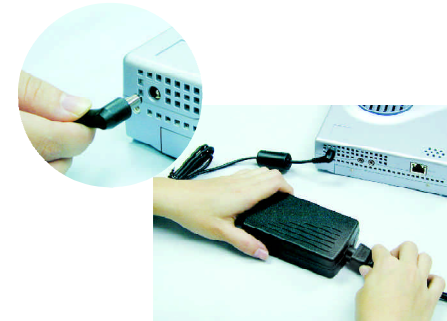


Figure 2-5 Connecting the AC Adapter

⇒ Do not remove the AC adapter when the computer is on as this will abruptly shut off the computer and may damage your computer parts.

2.6 Starting Your Computer

Press the power button to start your computer and check if the CPU fan turns on.



Figure 2-6 Power Button

After a few seconds, the display monitor will turn on and your computer will begin to execute the Power On Self Test or POST to check if all system components are running properly. Any errors found during the test will be displayed on the screen and may generate short beeping sound as well.

During the test, the screen will also display a message **Press the key to run SETUP program**". You do not need to run this program at the moment as your dealer already made the necessary settings for optimal operation. Refer to Chapter 5 on running the SETUP program later.

After the test has completed, your computer will start to search and boot up the operating system from your hard drive. The computer normally comes with a Windows operating system pre-installed in your hard drive. Consult the Windows operating system manual on how to use the program. If not, contact your dealer for assistance.

⇒ *To avoid overheating the computer, do not place any objects close to an air intake or fan, and do not allow any objects to cover up an intake or fan.*

2.7 Installing the PC Device Drivers

If you already have an operating system installed into your computer, it is best to install the needed device drivers for using the built-in devices of your computer like sound and VGA display support. Before installing the drivers, check with your dealer first if they have already installed all the drivers along with the operating system.

The device drivers of your PC are stored in a supplement CD that comes along with the computer package.

The device drivers provided inside the CD are for the following Operating Systems (stored in directory name):

- Windows 98 and 98 Second Edition (**Win98SE**)
- Windows NT (**WinNT**)
- Windows 2000 (**Win2K**)
- Windows Millennium Edition (**WinME**)

The supplied device drivers are the following:

- Intel 810x INF Update Driver (for Win98/98SE only)
- Intel 810x Chipset VGA Driver
- Intel 810x Chipset Ultra DMA Driver
- Integrated Digital Audio Driver
- Internal LAN Driver
- Internal Modem Driver

Follow the steps below to auto-install the drivers:

1. Power on your Computer and boot Windows. Place the Driver CD into the CD-ROM drive.
2. The Driver CD will automatically be detected and will pop-out a menu window (see next Figure). It will also detect what Operating System you are using so it will only show you the drivers needed to be installed. It is important that you install each drivers before you start using your computer.
3. Click on the first device driver to install.
4. Follow the prompt instructions shown on the display to complete each driver installation. You may also be prompted to restart your PC after each driver installation, remember to go back to the menu window to install the next device driver.



VGA Driver Installation

If you want to install the VGA driver separately, you can follow the steps below:

1. Place the Driver CD into the CD-ROM drive.
2. Click **START - RUN - BROWSE**.
3. Click to your CD-ROM drive and browse to the \CG1\<OS directory>\VGADrv\Graphics subdirectory.
4. Double-click on **SETUP**. Follow the prompt instructions appearing on the screen.

If your CD-ROM Drive letter is E: and you are installing under Windows 98 or 98 Second Edition, you should run the following command:

E:\CG1\Win98\VGADrv\Graphics\Setup.exe

If you are installing under Windows NT:

E:\CG1\WinNT\VGADrv\Graphics\Setup.exe

If you are installing under Windows 2000:

E:\CG1\Win2K\VGADrv\Graphics\Setup.exe

If you are installing under Windows Millennium Edition:

E:\CG1\WinME\VGADrv\Graphics\Setup.exe

Audio Driver Installation

If you want to install the audio driver separately, you can follow the steps below:

1. Place the Driver CD into the CD-ROM drive.
2. Click **START - RUN - BROWSE**.
3. Click to your CD-ROM drive and browse to the \CG1\<OS directory>\SoundDrv subdirectory.
4. Double-click on **SETUP**. Follow all the prompt instructions appearing on the screen.

If your CD-ROM Drive letter is E: and you are installing under Windows 98 Second Edition, you should run the following command:

E:\CG1\Win98\SoundDrv\Setup.exe

If you are installing under Windows NT:

E:\CG1\WinNT\SoundDrv\Setup.exe

If you are installing under Windows 2000:

E:\CG1\Win2K\SoundDrv\Setup.exe

If you are installing under Windows Millennium Edition:

E:\CG1\WinME\SoundDrv\Setup.exe

Ultra DMA (UDMA) Driver Installation

If you want to install the Ultra DMA driver separately, you can follow the steps below based on your installed operating system.

1. Place the Driver CD into the CD-ROM drive.

2. Click **START - RUN - BROWSE**.
3. Click to your CD-ROM drive and browse to the \CG1\< OS directory >\ATADrv subdirectory.
4. Double-click on **CD**.

For example, if your CD-ROM Drive letter is E: and you are installing under Windows 98 Second Edition, you should run the following command:

E:\CG1\Win98\ATADrv\CD.exe

If you are installing under Windows NT:

E:\CG1\WinNT\ATADrv\CD.exe

If you are installing under Windows 2000:

E:\CG1\Win2K\ATADrv\CD.exe

If you are installing under Windows Millennium Edition:

E:\CG1\WinME\ATADrv\CD.exe

LAN Driver Installation

If you want to install the LAN driver separately, you can follow the steps below based on your installed operating system.

Windows 98 / 98 Second Edition:

1. Place the Driver CD into the CD-ROM drive.
2. Click **START - SETTINGS - CONTROL PANEL- SYSTEM**.
3. When the System Properties appear, click on the **Device Manager** folder tab.
4. Double-click the **PCI Ethernet Control** device under the **Other Device**.
5. Click on the **Driver** folder tab and click on the **Update Driver** button found below the

folder tab.

6. When the **Update Device Driver Wizard** appears, click **Next**.
7. Click on **Search for a better driver than the one your device is using now (Recommended)** and click **Next**.
8. Click on **Specify a location** and browse to the LAN driver subdirectory of the OS or enter **E:\CG1\Win98\LANDrv**.
9. Click **Next** and follow succeeding prompt instructions to finish driver installation. Click **Finish**.

Windows NT:

1. Place the Driver CD into the CD-ROM drive.
2. Click **START - SETTINGS - CONTROL PANEL- Network**.
3. When the Network Properties appear, click on the **Adapters** folder tab and click the **Add** button.
4. Click the **Have Disk** button and **browse** to the LAN driver subdirectory of the OS or enter **E:\CG1\WinNT\LANDrv**.
5. Click **Realtek RTL8139(A/B/C/8130) PCI Fast Ethernet Adapter**.
6. Click the **OK** button until you finish driver installation.
7. Enter your IP address, Subnet Mask, and default Gateway settings.
8. Click the **OK** button to restart your computer.

Windows 2000:

1. Place the Driver CD into the CD-ROM drive.
2. Click **START - SETTINGS - CONTROL PANEL- SYSTEM**.
3. When the System Properties appear, click on the **Device Manager** folder tab.
4. Double-click the **Realtek RTL8139(A) PCI Fast Ethernet Adapter** device under the **Net work Adapters**.
5. Click on the **Driver** folder tab and click on the **Update Driver** button found below the

folder tab.

6. When the **Update Device Driver Wizard** appears, click **Next**.
7. Click on **Search for a better driver than the one your device is using now (Recommended)** and click **Next**.
8. Click on **Specify a location** and browse to the LAN driver subdirectory of the OS or enter **E:\CG1\Win2K\LANDrv**.
9. Click **Next** and follow succeeding prompt instructions to finish driver installation. Click **Finish**.

Windows Millennium Edition (ME):

1. Place the Driver CD into the CD-ROM drive.
2. Click **START - SETTINGS - CONTROL PANEL- SYSTEM**.
3. When the System Properties appear, click on the **Device Manager** folder tab.
4. Double-click the **Realtek RTL8139(A) PCI Fast Ethernet Adapter** device under the **Net work Adapters**.
5. Click on the **Driver** folder tab and click on the **Update Driver** button found below the folder tab.
6. When the **Update Device Driver Wizard** appears, click **Next**.
7. Click on **Specify the location of the driver (Advanced)** and click **Next**.
8. Browse to the LAN driver subdirectory of the OS or enter **E:\CG1\WinME\LANDrv**.
9. Click **Install one of the driver** and select the first listed driver. Click **Next**.
10. Windows will detect the **Realtek RTL8139(A/B/C/8130) PCI Fast Ethernet NIC**. Click **Next**.
11. Browse to the LAN driver subdirectory or enter **E:\CG1\WinME\LANDrv**. Click **Next**.
12. Follow succeeding prompt instructions to finish driver installation. Click **Finish** to **finish** the driver installation.
13. Click **Yes** to restart Windows.

Modem Driver Installation

If you want to install the modem driver separately, you can follow the steps below based on your installed operating system.

⇒ *There is no driver supported for Windows NT.*

Windows 98 / 98 Second Edition:

1. Place the Driver CD into the CD-ROM drive.
2. Click **START - SETTINGS - CONTROL PANEL- SYSTEM**.
3. When the System Properties appear, click on the **Device Manager** folder tab.
4. Double-click the **PCI Card** device under the **Other Device**.
5. Click on the **Driver** folder tab and click on the **Update Driver** button found below the folder tab.
6. When the **Update Device Driver Wizard** appears, click **Next**.
7. Click on **Search for a better driver than the one your device is using now (Recommended)** and click **Next**.
8. Click on **Specify a location** and browse to the Modem driver subdirectory of the OS or enter **E:\CG1\Win98\ModemDrv**.
9. Click **Next** and follow succeeding prompt instructions to finish driver installation. Click **Finish**.

Windows 2000:

1. Place the Driver CD into the CD-ROM drive.
2. Click **START - SETTINGS - CONTROL PANEL- SYSTEM**.
3. When the System Properties appear, click on the **Device Manager** folder tab.
4. Double-click the **PCI Card** device under the **Other Device**.
5. Click on **Reinstall Driver** button.
6. When the **Update Device Driver Wizard** appears, click **Next**.