FIC
GE2 (Mini Entertainment PC)
User Guide

Copyright©2006

All Rights Reserved - Printed in Taiwan

Notebook Computer User Guide

Original Issue: 2006/04

This manual guides you in setting up and using your new notebook computer. Information in this manual has been carefully checked for accuracy and is subject to change without notice.

No part of this manual may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopy, recording, or otherwise, without prior written permission.

Trademarks

Product names used herein are for identification purposes only and may be the trademarks of their respective companies.

Microsoft, Windows XP Professional, and Media Center Edition 2005 are trademarks of Microsoft Corporation.

Intel ®, Intel ® Core™ Duo, and Intel ® HD Audio (Azalia) are registered trademark of Intel Corporation.

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

FCC Information to User

Safety and Care Instructions

No matter what your level of experience with computers, please make sure you read the safety and care instructions. This information can help protect you and your computer from possible harm.

Radio and television interference

Warning: Use the specified shielded power cord and shielded signal cables with this computer, so as not to interfere with radio and television reception. If you use other cables, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage 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 device and receiver
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/television technician for help.

You may find helpful the following booklet, prepared by the Federal Communications Commission: Interference Handbook (stock number 004-000-00345-4). This booklet is available from the U.S. Government Printing Office, Washington, DC20402

Warning: The user must not modify or change this computer without approval. Modification could void authority to this equipment.

FCC RF Exposure

FCC RF Radiation Exposure Statement:

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

15.247 (b)(4), the EUT meets the requirement that it be operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines (1.1307, 1.1310, 2.1091 and 2.1093)

Information of the responsible party for a DoC product

Product name: Notebook PC
Model number: GE2

Technical Support: Address: 6FL., No.300 Yang	Technical Support in the US: Address : 5020 Brandin Court

Gunag St., Neihu, Taipei, Taiwan Telephone:+886-2-8751-8751 ext.7935 Fax: +886-2-87518822 Emaill: rex_kuo@pcg.fic.com.tw	Fremont CA 94538 USA Telephone : +1-510-252-7755 Fax : +1-510-2528895 Email : tomwong@fic.com.tw

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

5.105 Federal Communications Commission (FCC) Requirements, Part 15

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

---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.

5.21 Regulatory information / Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user’s authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

IMPORTANT NOTE (CO-LOCATION)

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE (CO-LOCATED EVALUATION PERFORMED)

This transmitter has been demonstrated co-located operation compliance requirement with [PRODUCT DESCRIPTION/BRAND/MODEL#]. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radio Frequency Interference Requirements

This device is restricted to INDOOR USE due to its operation in the 5.15 to 5.25GHz frequency range. According to FCC 15.407(e), requires this product to be used indoors for the frequency range 5.15 to 5.25GHz to reduce the potential for harmful interference to co-channel of the Mobile Satellite Systems.

High power radars are allocated as primary user of the 5.25 to 5.35GHz and 5.65 to 5.85GHz bands. These radar stations can cause interference with and / or damage this device

Canadian Department of Communications Compliance Statement

This Class B digital apparatus meets all requirement of the Canadian Interference-Causing Equipment Regulations.

Shielded Cables Notice

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Peripheral Devices Notice

Only peripherals (input/output devices, terminals, printers, etc) certified to comply with Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Optical Disk Drive Notice

The optical disk drive is Class 1 Laser Product.

Caution

Changes or modifications not expressly approved by the manufacturer may void the user's authority, which is granted by the Federal Communications Commission, to operate this computer.

Use Conditions

This part complies with Part 15 of the FCC Rules. Operation is subject to the following 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.

European Notice

For the following equipment: Notebook PC

CE0678 (!)

Is herewith confirmed to comply with the requirements set out in the

Council Directive on the Approximation of the Laws of the Member

States relating to Electromagnetic Compatibility (89/336/EEC), Low voltage

Directive (73/23/EEC) and the Amendment Directive

(93/68/EEC), the procedures given in European Council Directive

99/5/EC and 89/3360EEC.

The equipment was passed. The test was performed according to the

following European standards:

EN 300 328 V.1.6.1 (2004)

EN 301 489-1 V.1.4.1 (2002) / EN 301 489-17 V.1.2.1 (2002)

EN 301 893 V1.3.1:2005

EN 50371 (2002)

EN 55022: 1998+A1:2000+A2:2003

EN 55024: 1998+A1:2001+A2:2003

EN 60950: 2000

EN 61000-3-2: 2000

EN 61000-3-3: 1995 + A1: 2001

802.11b & 802.11g Restrictions:

- European standards dictate maximum radiated transmit power of 100mW EIRP

and frequency range 2.400-2.4835GHz;

- In France, the equipment must be restricted to the 2.4465-2.4835GHz

frequency range and must be restricted to indoor use."

Regulatory statement (R&TTE / WLAN IEEE 802.11a)

Operation of this device is subjected to the following National regulations and may be prohibited to use if certain restriction should be applied.

5150-5350MHz	Austria	Limited to 5150 – 5250 MHz
	Belgium	5250 - 5350 MHz excluded
	Croatia	Licence required
	Italy	General authorization required if used outside own premises

	Latvia	Limited to 5150 – 5300 MHz, Under Study
	Luxembourg	None; General authorization required for public service
5470-5725MHz	Austria	Not implemented; Military band
	Bulgaria	Not implemented
	Croatia	Not implemented
	Czech Republic	Not implemented; Planned
	France	Not implemented; France will implement this band identified by the ERC DEC(99)23 when the efficiency of the mitigation techniques made mandatory by this Decision is ensured
	Hungary	Not implemented; Equipment/ Standard not available
	Italy	General authorization required if used outside own premises
	Luxembourg	None; General authorization required for public service
	Slovak Republic	Not implemented; Military services

Notification Letter

Subject: Confirmation of 18 Frequency Notifications Submitted to the National Authorities of the Spectrum Management

Dear Sir

We , First International Computer, Inc. for performing the Annex IV procedures in Article 10.5 of R&TTE directive 99/5/EC, would like to inform you that the frequency notification regulated in Article 6.4 of 99/5/EC has been sent to the authorities of spectrum management of the countries listed below :

Manufacturer	First International Computer, Inc.
Brand name	FIC
Product Description	MINI PC with RF module for 802.11a/b/g
Model	GE2
Notified Country	Austria, Belgium, Czech Rep, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Netherlands, Norway, Poland, Portugal, Spain, Sweden, UK,
Remark	

Yours Sincerely ,

Rex Kuo

First International Computer, Inc.

8F , No.300,Yang Guang St, Neihu Taipei 114, Taiwan

E-mail: rex_kuo@pcg.fic.com.tw

TEL: +886-2-8751-8751 ext.7935

FAX: +886-2-8751-8822

Contents

1 INTRODUCTION 15
1.1 FEATURE HIGHLIGHT 15
1.2 UNPACKING THE MINI EPC 17
1.3 THE FRONT SIDE OF THE MINI EPC 18
1.4 THE REAR SIDE OF THE MINI EPC 19
1.5 MEMORY UPGRADE 22
2 GETTING STARTED 25
2.1 CONNECTING THE AC POWER SOURCE 25
2.2 CONNECT YOUR MINI EPC TO A TV 26
Attach an Antenna to your mini EPC *27*
connect to a TV with an S-Video connection *28*
2.3 CONNECT MINI EPC TO A PC MONITOR 30
2.3 INSTALLING THE GE2 DEVICE DRIVERS 31
driver installation note: *31*
3 USING YOUR MINI EPC 35
3.1 MEDIA CENTER REMOTE CONTROL 35
3.2 WIRELESS USB KEYBOARD (OPTION) 38
3.3 CONFIGURING YOUR SCREEN DISPLAY 40
3.4 HOW TO ACCESS THE OPTICAL DRIVE 40
3.5 USING FLASH MEMORY CARDS 42
4 MICROSOFT MEDIA CENTER 45
4.1 WHAT IS WINDOWS XP MEDIA CENTER EDITION 2005? 45
5 CONNECTING TO PERIPHERALS 55
USING THE USB PORT 55
USING THE LAN PORT 55

USING THE IEEE 1394 PORT......56
USING THE WIRELESS LAN......57
USING THE MODEM PORT......58
6 BIOS SETUP......59
6.1 RUNNING THE BIOS SETUP PROGRAM......59
6.2 USING THE MAIN MENU SETUP......60
6.3 USING THE ADVANCED CMOS SETUP......62
6.4 SECURITY MENU SETUP......63
6.6 USING THE BOOT SETUP......65
6.7 HOW TO EXIT THE SETUP PROGRAM......66
7 CARING FOR YOUR MINI EPC......69
IMPORTANT SAFETY INSTRUCTIONS......69
ENVIRONMENT......69
POWER SUPPLY......70
CLEANING YOUR MINI EPC......71
MAINTAINING HARD DISK......71
APPENDIX A SYSTEM SPECIFICATIONS......73

1 Introduction

Explore endless entertainment options from the comfort of your couch. With an Intel® Viiv^{TM} technology-based PC and supporting devices, you can enjoy a growing universe of digital media content.

With mini EPC, every member of your family can enjoy the immersive experience of PC games and movies on a big screen, enhanced by a home theater system. Users can interact with an entertainment PC with an USB mouse and keyboard, or with an optional remote control, which provides an exciting viewing experience from the comfort of the living room sofa.

1.1 Feature Highlight

Before we go to identify each part of your Notebook PC, we will first introduce you to other notable features of your computer.

Intel® Viiv^{TM} technology is Intel’s new platform designed for the enjoyment of digital entertainment. It delivers the multitasking power of a dual-core processor and enables sleek new designs that fit your lifestyle.

Processing Unit

- Your mini EPC runs on Intel ® Core^{TM} Duo microprocessor that is integrated with 2MB L2 Cache. Check with your dealer on the CPU type and speed.

- Fully compatible with an entire library of PC software based on operating systems such as Windows XP Window Media Center Edition 2005.

Wireless LAN

Intel PRO/Wireless 3945ABG Network Connection
(IEEE 802.11a/b/g, Tri-mode)

Memory

This notebook provides two memory slots for installing DDR2 SDRAM 200-pin SODIMM modules up to 2GB using 256MB, 512MB, or 1024MB DDR2 SDRAM modules.

USB 2.0

Provides four USB ports (one at front panel and three at rear side) for fastest I/O data transmission.

Graphic System

Provides blazing graphics controller embedded in Intel® 945GM chipset

Audio System

Sound Codec chip: Azalia ACL260; Compliant with Intel HD Audio.

1.2 Unpacking the mini EPC

Your mini EPC comes securely packaged in a sturdy cardboard shipping carton. Upon receiving your computer, open the carton and carefully remove the contents. In addition to this User Guide, the shipping carton should also contain the following items:

GE2 (Mini EPC)

Remote Control (optional)

Antenna

Wireless USB Keyboard (optional)

DVI-I Adapter (optional)

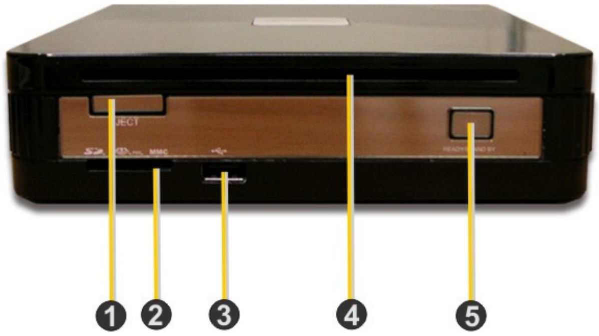
An AC Adapter and AC Power Cord

Utility CD

Hardcopy User Guide/E-book Quick Setup Manual

Carefully inspect each component to make sure that nothing is missing and/or damaged. If any of these items is missing or damaged, notify your dealer immediately. Be sure to save the shipping materials and the carton in case you need to ship the computer or if you plan to store the computer away sometime in the future.

1.3 The Front Side of the mini EPC



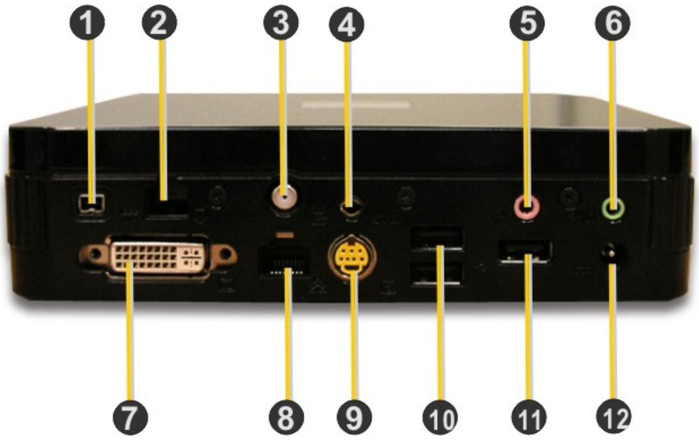
1. Eject Button	2. 4-in-1 Card Reader
3. USB Port	4. Slot-in ODD
5. Power/Resume Button on	

Feature	Description
1. Eject Button	Press this button to eject optical disk.
2. 4-in-1 Card Reader	The card slot supports SD, MMC, MS (Memory Stick) and MS_Pro flash memory

Feature	Description
	card format. You can use either of the 4 types flash memory cards for extra storage media.
3. USB Port	The Universal Serial Bus (USB) port allows you to connect up to USB-equipped peripheral devices (for example, USB mouse, digital camera, USB storage device and so on).
4. Optical Disk Drive	This optical disk drive is Slot-in type ODD. It allows you to load and start programs from a CD/DVD and play DVD movies and audio CDs. It also can burn CD/DVD.
5. Power/Resume Button on	Switches the computer power on and off, or resumes whenever it is in Suspend mode.

1.4 The Rear Side of the Mini EPC

The system ports at the back of your notebook computer can connect various devices. Each port is described as followings.



1. IEEE 1394	2. Modem Port
3. Antenna connector	4. AV_In Port
5. Microphone Jack	6 Headphone Jack
7. DVI-I Socket	8. LAN Port
9. TV Port (S-video)	10 USB Ports
11. USB Port	12. DC_In

Feature	Description
1. IEEE 1394	IEEE 1394 port is a high speed I/O port that can transfer high levels of data in real-time, such as Digital Video Camera, external hard disk.
2. Modem Port	A 56K internal fax/data modem is build-in. It keeps you connected to the outside networks through telephone line.
3. Antenna	Connects to an antenna to receive television

Feature	Description
connector	signal for watching and recording TV programs.
4. AV_In Port	This port is for Audio and Video input.
5. Microphone Jack	Allows you to connect an external microphone.
6 Headphone Jack	Lets you plug in high-definition headphone, powered speakers, or earphone. (The SPDIF transmits digitized audio signal by optical fiber. The external audio amplifier can get the best audio quality without loss.)
7. DVI-I Socket	This socket can accept both analog signal (VGA) and digital signal (DVI) inputs. The “DVI-I” is the abbreviation of “Digital Video Interactive-Integrated”.
8. LAN Port	An internal 10/100/1000Base-T Gigabit Ethernet LAN module connects your mini EPC to other computers/networks through a local area network (LAN).
9. TV Port (S-video)	Lets you connect to the S-Video TV connector for watching TV programs or DVD movie.
10 USB Ports	The Universal Serial Bus (USB) port allows you to connect up to USB-equipped peripheral devices (for example, USB mouse, digital camera, USB storage device and so on).
11. USB Port	Same as item 10
12. DC_In	Lets you connect the AC power adapter in supplying continuous power to your mini EPC.

1.5 Memory Upgrade

Your notebook computer offers 200-pin SODIMM (Small Outline Dual Inline Memory Module) at least 256MB DDR2-SDRAM. The memory compartment is located inside your computer. The table below lists the possible combinations of different memory module and memory size.

NOTE: Please contact dealer for changing or adding DDR2-SDRAM module. It is not available for users to change it by themselves.

Based Memory	Installing Memory	Total
256 MB	0 MB	**256 MB**
256 MB	256 MB	**512 MB**
256 MB	512 MB	**768 MB**
256 MB	1024MB	**1280MB**
512 MB	0 MB	**512 MB**
512 MB	256 MB	**768 MB**
512 MB	512 MB	**1024 MB**
512 MB	1024MB	**1536MB**
1024 MB	0 MB	**1024 MB**
1024 MB	256 MB	**1280 MB**
1024 MB	512 MB	**1536 MB**
1024 MB	1024 MB	**2048 MB**

This page is intended to be blank.

2 Getting Started

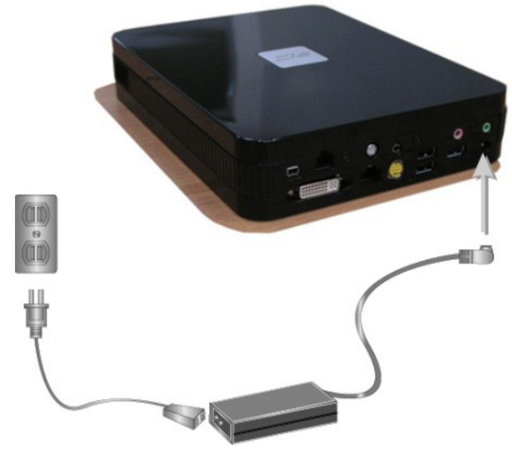
Your mini EPC is designed and pre-configured for easy setup and use. This chapter describes the installation steps you should follow to get the notebook up and running as quickly as possible. Contact your dealer if they have pre-installed all the needed drivers to fully operate your mini EPC or if there is an update on the driver installation of the notebook.

2.1 Connecting the AC Power Source

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

To connect the power adapter:

1. Plug the AC power cord into the power socket of the AC power adapter. And plug the other end of the AC power cord to a live AC wall outlet.



2. Plug the connector of the AC adapter to the DC-IN port found at the rear side of the mini EPC.

- *For the power supply of this equipment, an approved power cord has to be used.*
- *Make sure the socket and any extension cord(s) you use can support the total current load of all the connected devices.*
- *Before cleaning the computer, make sure it is disconnected from any external power supplies (i.e. AC adapter).*

2.2 Connect your mini EPC to a TV

Connect your mini EPC (running Microsoft Windows XP Media Center Edition 2005) to your TV, and you can enjoy your favorite computer and TV entertainment from the same spot in your living room. You can enjoy live and recorded TV, DVDs, music, photos, and

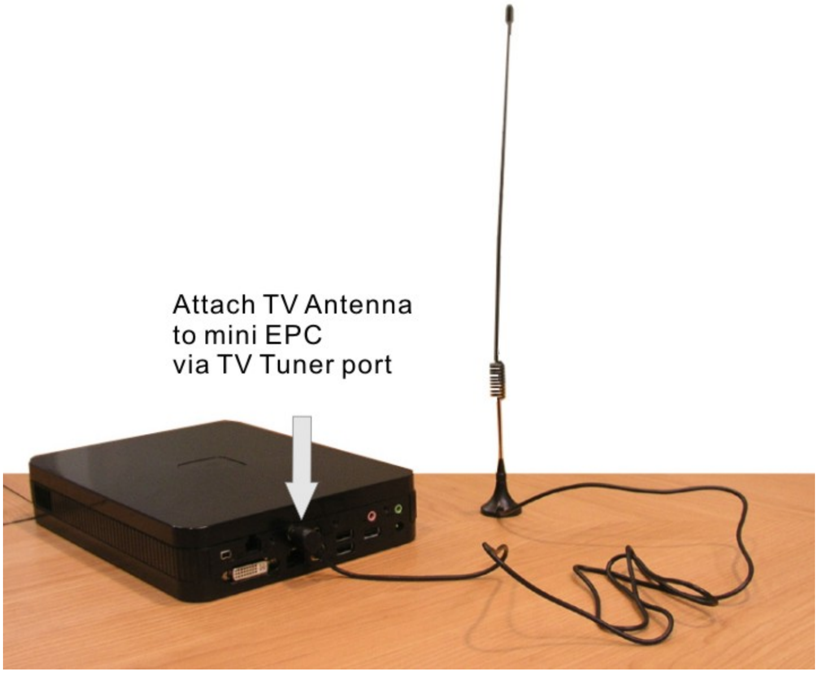
Online Spotlight's offerings on the big screen from the comfort of your couch—and you can control it all with a single remote.

ATTACH AN ANTENNA TO YOUR MINI EPC

The GE2 has built-in a TV tuner card to process analog television signals. (Beside, this TV tuners card functions as video capture cards to record television programs onto a hard disk.)

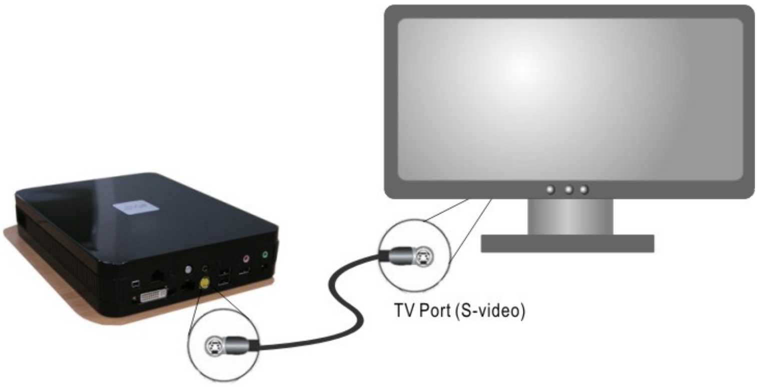
TV tuners supporting digital television broadcasts have recently become available; a tuner displaying an HDTV image on a computer monitor is typically much cheaper than a dedicated high-definition television system. The TV tuner card also support time-shifting capabilities, allowing the viewer to rewind, fast-forward and pause live TV.

The GE2 also comes with an Antenna. To receive television signal well, you need to attach the antenna to your mini EPC.


Attach TV Antenna
to mini EPC
via TV Tuner port

CONNECT TO A TV WITH AN S-VIDEO CONNECTION

1. Connect the S-Video cable to your video card's S-Video output connection, located on the back of your Media Center PC.



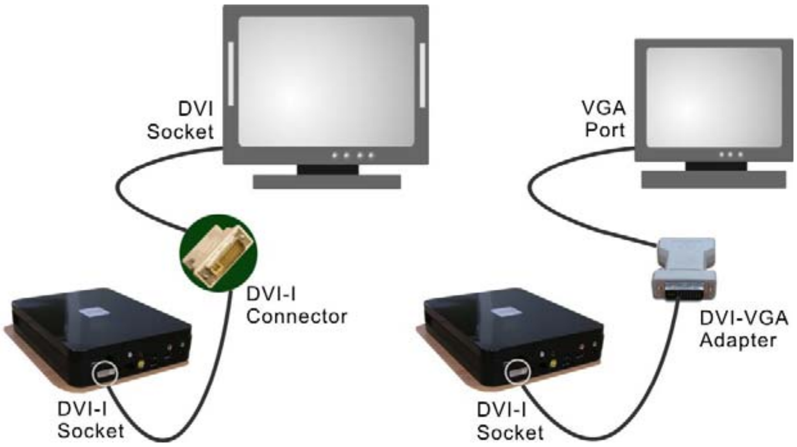
2. Connect the other end of the S-Video cable to an S-Video input connection on the back of your TV.

Enjoy your digital Lifestyle!

2.3 Connect mini EPC to a PC Monitor

You can also connect a monitor to your PC (running Microsoft Windows XP Media Center Edition 2005) just like you would with any other computer. All you have to do is plug the cable from the monitor into the back of the high-level computer with a DVI-I Socket.

However, most monitors use a VGA cable to connect to a PC. Connect the VGA cable from the monitor to the DVI-I Socket on the back of your Media Center PC via a DVI-VGA Adapter.


DVI
Socket
DVI-I
Connector
DVI-I
Socket
VGA
Port
DVI-VGA
Adapter
DVI-I
Socket

Connect directly to the monitor with DVI socket. Or you can connect to the monitor with VGA port via DVI-VGA Adapter.

2.3 Installing the GE2 Device Drivers

It is best to install the needed device drivers for using the built-in devices of your computer. Before installing the drivers, check with your dealer first if they have already installed all the drivers along with the operating system. If not, follow the procedures below:

DRIVER INSTALLATION NOTE:

- ***Please be notified that whenever you install the driver utility, it should be install the CHIPSET Driver first.***

Installing Drivers for Media Center Edition (MCE)

1. From the Windows toolbar, click the **Start** button, then point to **Run**. The **Run** dialog box appears.
2. Click the **Browse** button and specify the directory as where the device driver is located.
3. Read the on-screen information, and follow the on-screen instructions to complete drivers installation.

Device Driver	Driver Path
Chipset device	
	"E:\Drivers\MCE\Chipset\Setup.exe"
VGA device	

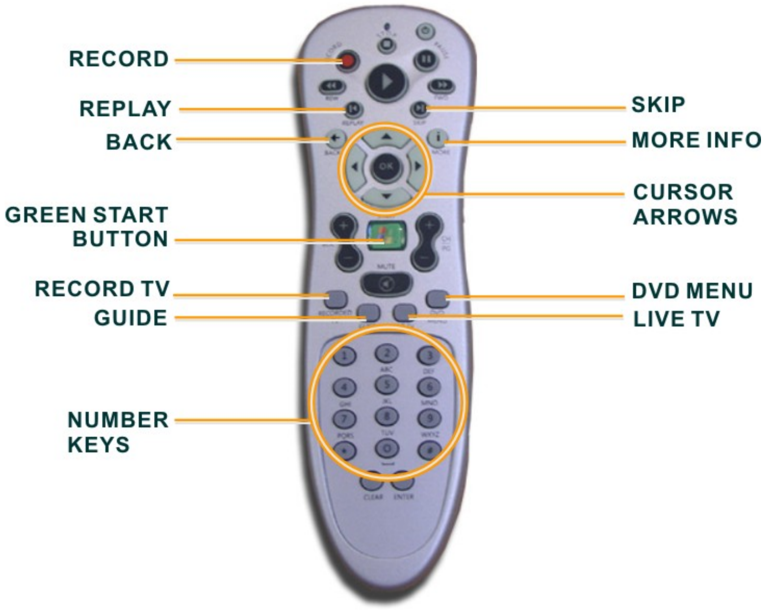
	"E:\Drivers\MCE\VGA\Setup.exe"
Audio device	
	"E:\Drivers\MCE\Audio\Setup.exe"
Modem driver	
	"E:\Drivers\MCE\Modem\ssetup.exe"
Wireless LAN driver and Utility	
	“E:\Drivers\MCE\Wireless LAN\Autorun.exe”
LAN driver	
	"E:\Drivers\MCE\LAN\Autorun.exe"
Card Reader driver	
	"E:\Drivers\MCE\Card Reader\setup.exe"
East Fork driver	
	"E:\Drivers\MCE\East Fork\setup.exe"
TV Tuner driver	
	"E:\Drivers\MCE\TV Tuner\installdriver.exe"
TV Tuner software encoder	
	"E:\Drivers\MCE\TV Tuner\installfilter.exe"
Matrix Storage software utility	
	"E:\Drivers\MCE\Matrix Storage\Setup.exe"
Viiv software	
	"E:\Drivers\MCE\ViiV Software\Setup.exe"

3 Using Your Mini EPC

This chapter describes how to operate the standard features of the mini EPC. With mini EPC, every member of your family can enjoy the immersive experience of PC games and movies on a big screen, enhanced by a home theater system. Users can interact with an entertainment PC with an USB mouse and keyboard, or with an optional remote control, which provides an exciting viewing experience from the comfort of the living room sofa.

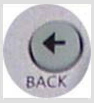
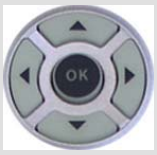
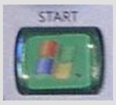
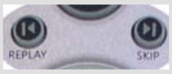
3.1 Media Center Remote Control

The mini EPC comes with a Media Center remote control, and this Media Center remote control bring your Media Center experience to a whole new level.


RECORD
REPLAY
BACK
GREEN START BUTTON
RECORD TV
GUIDE
NUMBER KEYS
SKIP
MORE INFO
CURSOR ARROWS
DVD MENU
LIVE TV

Media Center Remote Control

Button	Description
	Press the **RECORD** button on the remote to begin recording what you're currently watching. To find and watch it later, simply press the RECORD TV button.
	The **MORE INFO** button brings up additional option related to where you are in the menu system. You can also press MORE INFO to get details on the music, TV, pictures, or video that is selected.

Button	Description
	When navigating through the Media Center menu system, press the **BACK** button to go to the previous screen.
	Use the **CURSOR ARROWS** to navigate up, down, left, or right through the Media menu system. When you find what you want, press OK button in the center of the arrows to select it.
	The **GREEN START BUTTON** will launch the Media Center menu system when you are in Windows XP. If you are navigating around the Media Center, press GREEN STARD BUTTON will bring you back to the Media Center Starting menu options.
	Press **SKIP** on the remote to jump forward in 30 seconds time increments in the recorded TV show you’re watching. IF you want to see that great sports play again when watching live TV or recorded TV, press **REPLAY** on the remote and watch it again.
RECORDED TV	Press **RECORD TV** to go directly to the Recorded TV menu and see what recorded TV programs you have saved on the mini EPC.
	Press the **GUIDE** button to go directly to the TV program listings and find a show to watch now or to select a show or series to record in the future.
	Press the **LIVE TV** button to bring up TV on the screen of the television connected to your mini EPC.

Button	Description
	Press the **DVD MENU** button to access the main menu of the DVD in your DVD drive and to begin watching it.
	Use the **NUMBER KEYS** to go directly to the TV channel you want to watch or use them to type letters, numbers, or symbols into a search box.

3.2 Wireless USB Keyboard (option)

Before using the wireless USB keyboard, you must activate communication between the mini EPC and the wireless USB Keyboard.

Please follow the steps to install the wireless USB keyboard.

1. Turn the keyboard over and open the battery compartment.
2. Insert supplied batteries and replace battery compartment cover.
3. Connect “**Receiver**” to the USB port of the min EPC.
4. Press the button on **Receiver**, then press “**ID Link**” button on the keyboard within 10 seconds to communicate signals.

[The real Wireless USB Keyboard for shipment is still NOT available. This one is for symbol only.]

Key numbers: 99Keys (including hot-keys)

Battery: AA size Battery x4

Parameters for Remote Control
Distance for remote control: within 5m.
Angle for remote control: 360 degrees
Frequency band for signal transmitted: at 2.4GHz frequency.

Standby Mode: System will wait for 5 minutes to activate Standby Mode if there is no any input signal. (During Standby Mode, mouse (pointing device) will be disabled while keyboard function reminds alive. You can touch any key to resume system.

3.3 Configuring Your Screen Display

Possible Display Configurations

The table below shows you the possible display resolution you can set when using either the LCD display or the external monitor (CRT):

Display	Maximum Resolution	Maximum Colors
External Monitor	1600x1200, 85Hz	32-bit true colors

+ ***65,536 or 64K colors is also equivalent to 16-bit high color while 16 million or 16M colors is equivalent to 32-bit true color.***

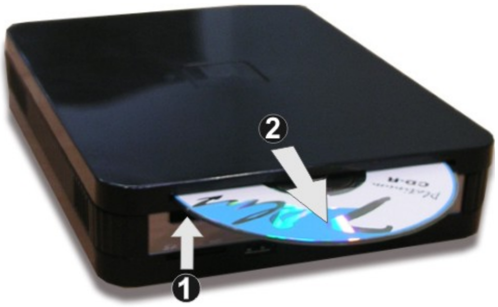
3.4 How to Access the Optical Drive

Your mini EPC is equipped with a Slot-in type DVD multi/Combo drive on the front panel of the mini system. You can play music from audio CDs or play DVD movies. You can also burn music CDs, and save documents and other digital files on CD-R/DVD-R or CD-RW/DVD-RW discs.

To insert and remove an optical disk on the drive:

1. Make sure the mini EPC is turned on.
2. Slide the optical disk into the slot-in type optical drive with the label side facing up. (**NOTE**: Some DVD are two-sided and don’t have a label on the either side.)

3. To remove the optical disc. Be sure close CD/DVD player related programs.
4. Press the eject button under the optical drive slot. Then the optical disc will slide out.



How to care the CD/DVD

When you handle CDs, pay attention to the following guidelines:

- Always pick up the CD by its edges.
- Avoid scratching or soiling either side of the CD.

- Do not write with the hard ball-point pen or apply labels on either side of the CD.
- Keep the CD away from direct sunlight or high temperatures.
- Clean fingerprints or dust from the CD by wiping it with a soft cloth.

3.5 Using Flash Memory Cards

What is Flash Memory Card?

Flash Memory is a memory storage media. They are used by most digital camera, mobile phone, and PDA. Flash memory cards are built with different form factor and brand name. Their sizes are smaller than PCMCIA card. This computer supports most of the flash memory card, including SD, MMC, MS (Memory Stick), and MS_Pro card.

The 4 in 1 card slot is used by the following cards as SD, MS (Memory Stick), MMC, and MS_Pro.

> + ***For a single moment, only one card can be inserted into the 4 in 1 card or CF slot***

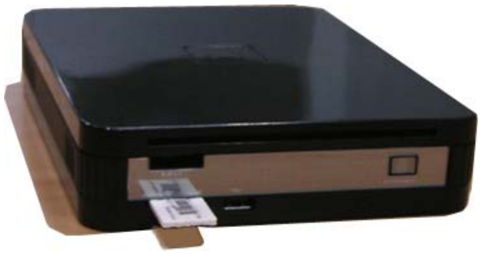
To insert and remove an Flash Memory Card:

For MMC and SD card, you should position the copper connector at the bottom side. For Memory Stick card, you should position the copper connector at the topside. All of these cards should be located at the center of the slots in inserting.

Slot	Card type	Copper connector

4 in 1	SD (Secure Digital)	Bottom side
	MMC (MultiMedia Card)	Bottom
	MS (Memory Stick)	Top side
	MS_Pro	Top side

Only one correct side can be accepted for the 4 in 1 card slots. If you cannot insert the card into the 4 in 1 slot or you had inserted the card but it is not recognized by the computer, please remove the card and turn the card upside down and insert it again. To prevent the damage made both on card and the slot, never forced an entry into the slot with incorrect side.



To remove the flash memory card, you should first disable the card setting at the taskbar of the windows XP. Then, you only pull out the card by fingers; there is no release button for flash memory slot.

4 Microsoft Media Center

The GE2 (Mini Entertainment PC) integrated in a highly compact platform is designed for digital entertainment. That means you can take charge of your media, share moves, TV, photos, and music with your friends and family. It simplifies our digital life.

At the heart of a Media Center PC is a powerful Windows XP-base computer so you can send e-mail, browse the web, and get your work done.

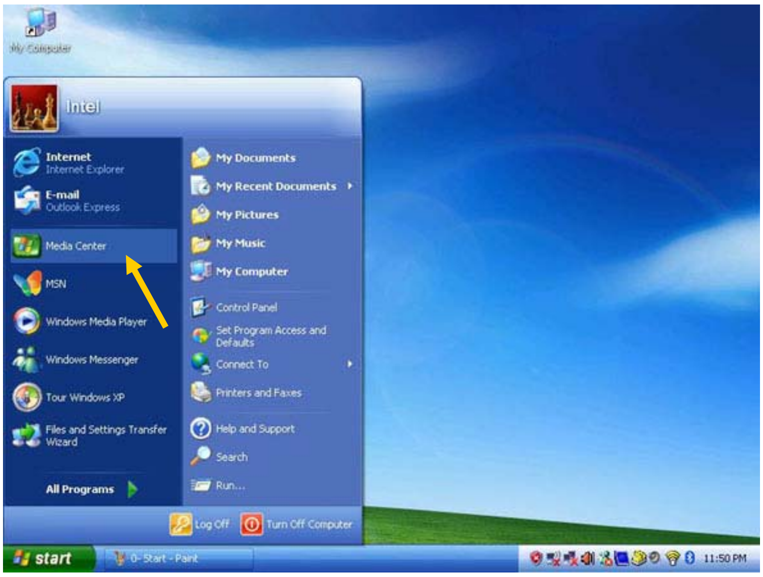
4.1 What is Windows XP Media Center Edition 2005?

Windows XP Media Center Edition 2005 is an operating system that enables you to enjoy the best in home entertainment on your mini EPC. With Media Center Edition 2005, you can store, share and enjoy all of your photos, all of your music, all of your home video and even recorded TV. It's all contained in one control system. That's as easy to use as a normal television set, combining all-in-one access from a single remote control with a great new user-friendly interface.

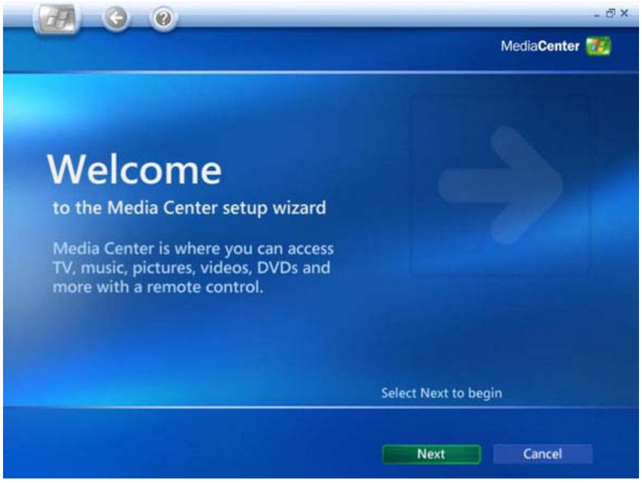
Windows XP Media Center Edition 2005 is built on the foundations of Windows XP Professional Edition, it's still a full-functional PC you can to use with your usual word-processing, e-mail sending and other programs.

Start the Windows XP Media Center

Now you should try Windows XP Media Center Edition 2005 for yourself.


My Computer
Intel
Internet
Internet Explorer
E-mail
Outlook Express
Media Center
MSN
Windows Media Player
Windows Messenger
Tour Windows XP
Files and Settings Transfer Wizard
All Programs
My Documents
My Recent Documents
My Pictures
My Music
My Computer
Control Panel
Set Program Access and Defaults
Connect To
Printers and Faxes
Help and Support
Search
Run...
Log Off
Turn Off Computer
start
0- Start - Paint
11:50 PM

Click the **START** button, then select **MEDIA CENTER,** or you can press the **GREEN START BUTTON** on the Media Center Remote Control to launch Media Center setup wizard for the first time.



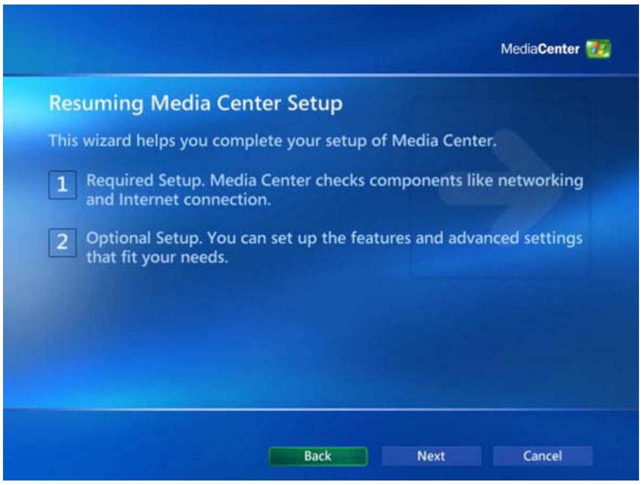
Welcome

to the Media Center setup wizard

Media Center is where you can access TV, music, pictures, videos, DVDs and more with a remote control.

Select Next to begin

The Welcome screen appears. (Welcome to the Media Center setup wizard) Press the **NEXT** button to continue.

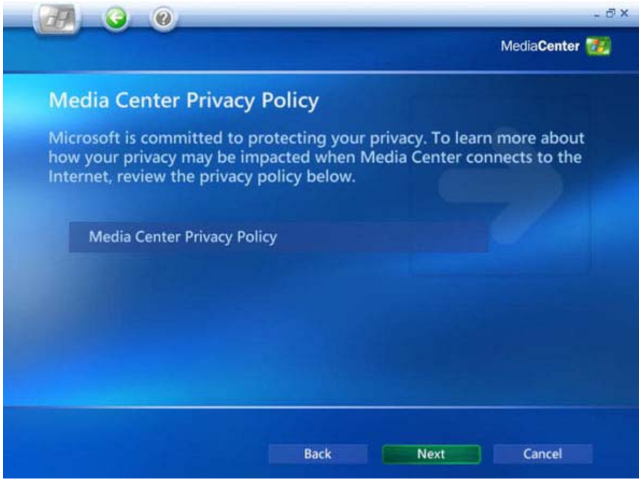


Resuming Media Center Setup

This wizard helps you complete your setup of Media Center.

1 Required Setup. Media Center checks components like networking and Internet connection.

2 Optional Setup. You can set up the features and advanced settings that fit your needs.

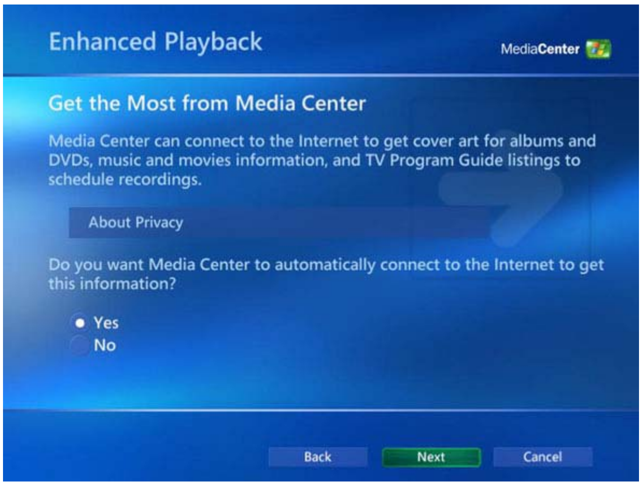


MediaCenter

Media Center Privacy Policy

Microsoft is committed to protecting your privacy. To learn more about how your privacy may be impacted when Media Center connects to the Internet, review the privacy policy below.

Media Center Privacy Policy
Back
Next
Cancel



Enhanced Playback
MediaCenter

Get the Most from Media Center

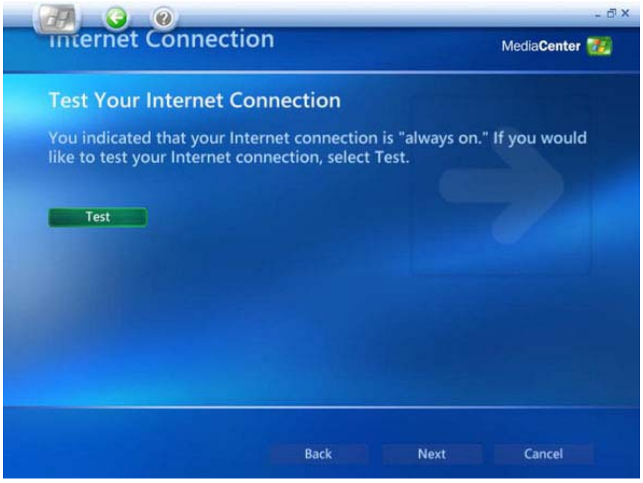
Media Center can connect to the Internet to get cover art for albums and DVDs, music and movies information, and TV Program Guide listings to schedule recordings.

About Privacy

Do you want Media Center to automatically connect to the Internet to get this information?

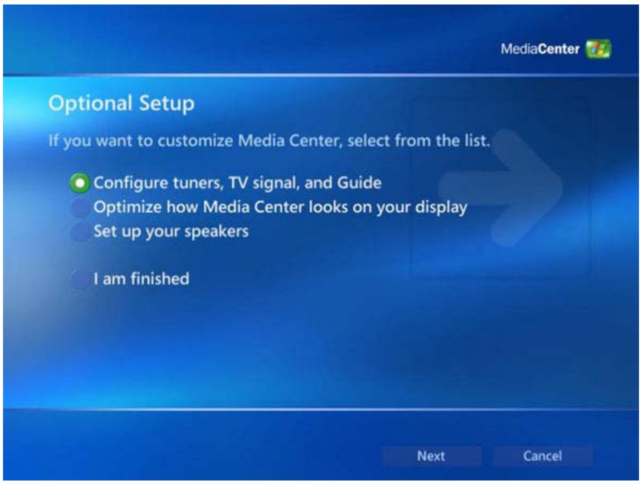
● Yes
○ No

Back
Next
Cancel


Internet Connection
MediaCenter
Test
Back
Next
Cancel

Test Your Internet Connection

You indicated that your Internet connection is "always on." If you would like to test your Internet connection, select Test.

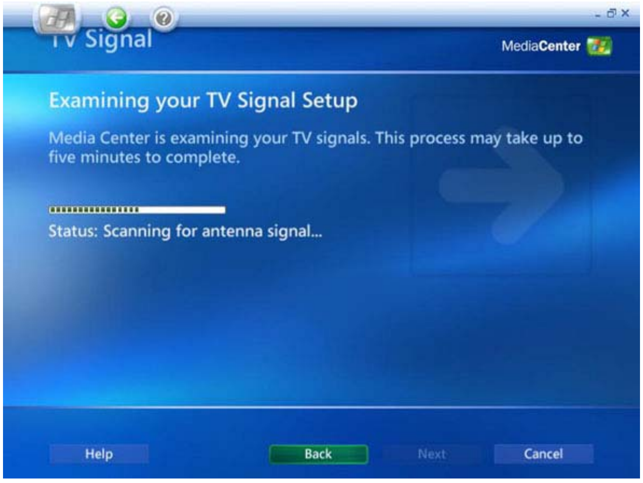

MediaCenter
Next
Cancel

Optional Setup

If you want to customize Media Center, select from the list.

- ● Configure tuners, TV signal, and Guide
- ○ Optimize how Media Center looks on your display
- ○ Set up your speakers

- ○ I am finished



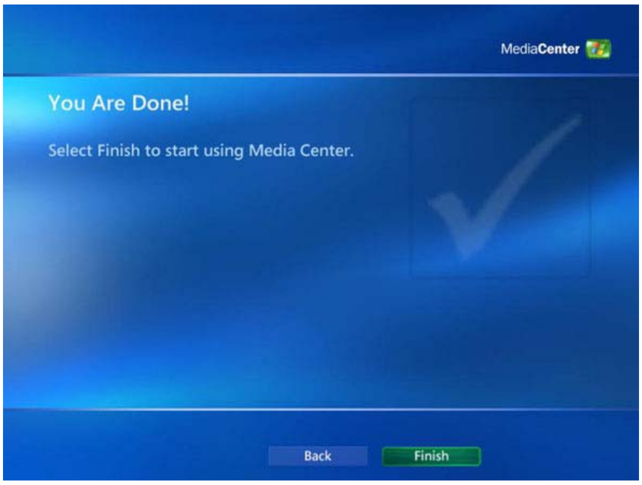
TV Signal
MediaCenter

Examining your TV Signal Setup

Media Center is examining your TV signals. This process may take up to five minutes to complete.

Status: Scanning for antenna signal...

Help
Back
Next
Cancel

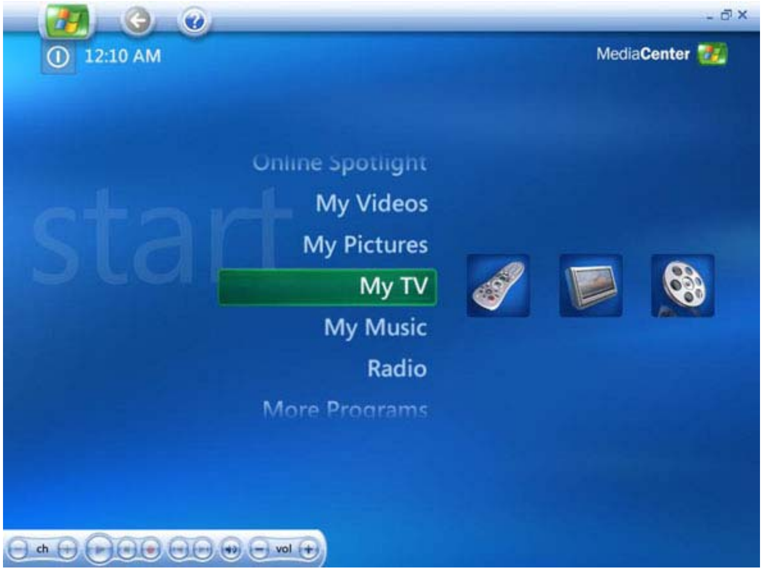


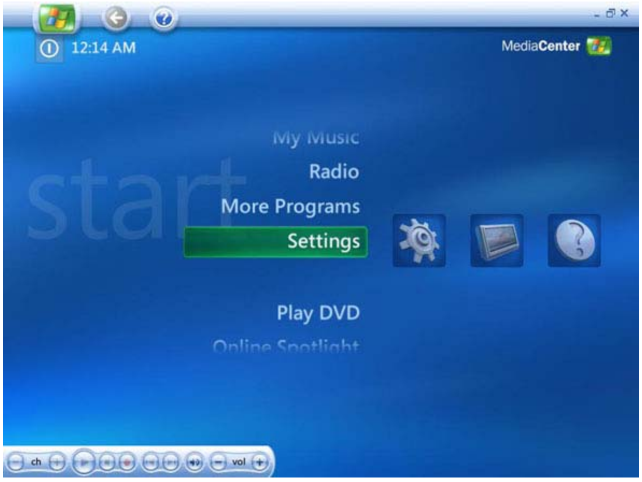
MediaCenter

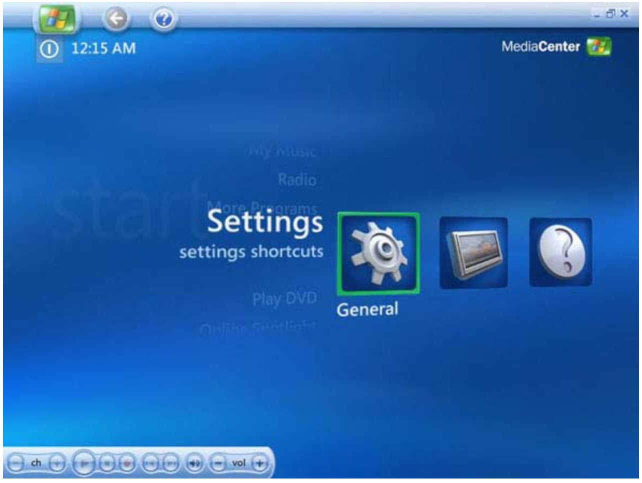
You Are Done!

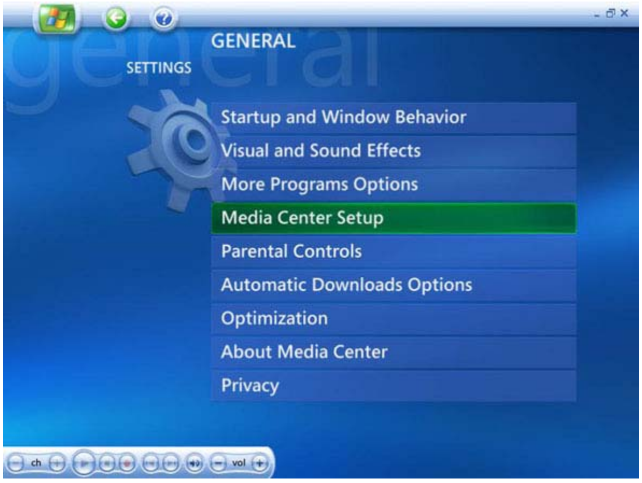
Select Finish to start using Media Center.

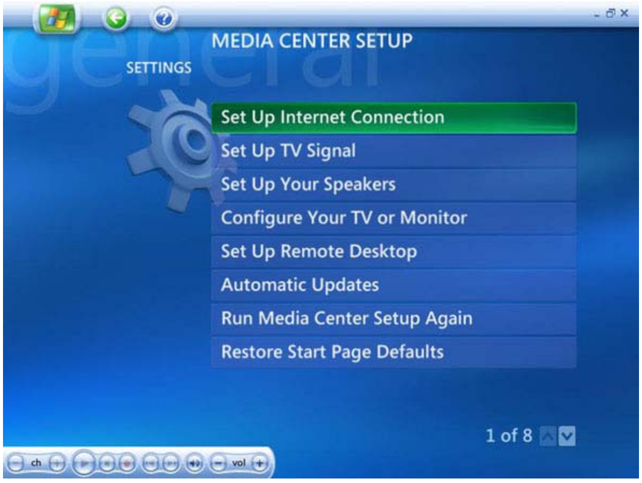
Back
Finish

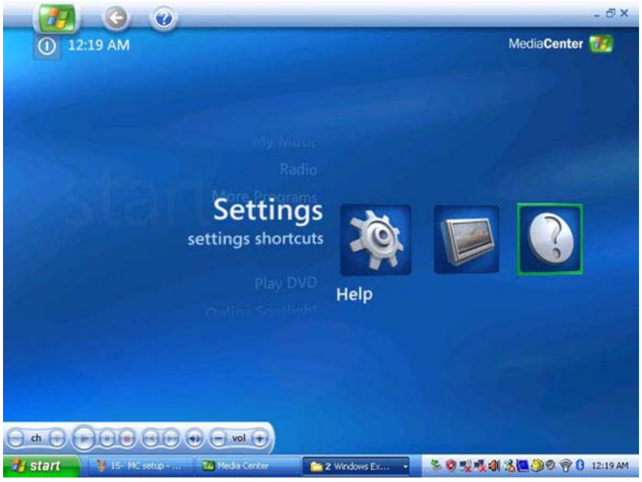

12:10 AM
MediaCenter
start
Online Spotlight
My Videos
My Pictures
My TV
My Music
Radio
More Programs
ch
vol

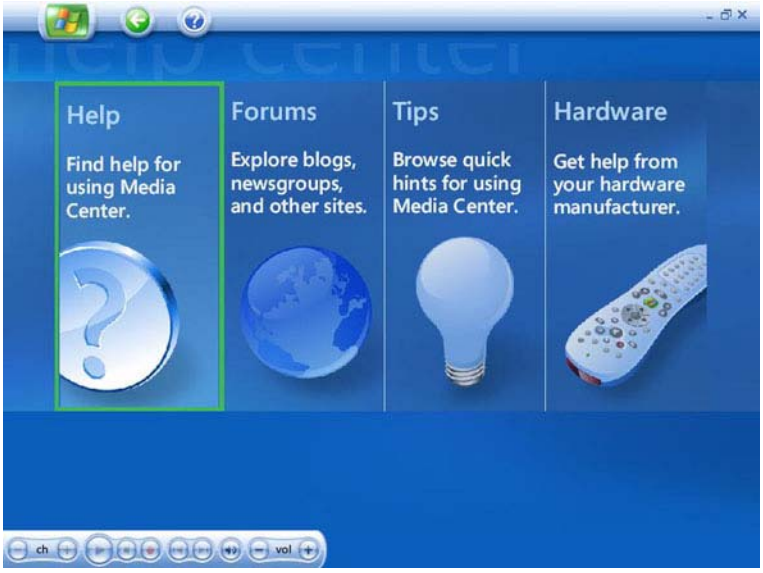

12:14 AM
MediaCenter
start
My Music
Radio
More Programs
Settings
Play DVD
Online Spotlight
ch
vol


12:15 AM
MediaCenter
My Music
Radio
More Programs
start
Settings
settings shortcuts
Play DVD
Online Spotlight
General
ch
vol


general
GENERAL
SETTINGS
Startup and Window Behavior
Visual and Sound Effects
More Programs Options
Media Center Setup
Parental Controls
Automatic Downloads Options
Optimization
About Media Center
Privacy
ch
vol


MEDIA CENTER SETUP
SETTINGS
Set Up Internet Connection
Set Up TV Signal
Set Up Your Speakers
Configure Your TV or Monitor
Set Up Remote Desktop
Automatic Updates
Run Media Center Setup Again
Restore Start Page Defaults
1 of 8
ch
vol


12:19 AM
MediaCenter
My Music
Radio
More Programs
Settings
settings shortcuts
Help
Play DVD
Online Spotlight
ch
vol
start
Media Center
2 Windows Ex...
12:19 AM


Help Center
Help
Find help for using Media Center.
Forums
Explore blogs, newsgroups, and other sites.
Tips
Browse quick hints for using Media Center.
Hardware
Get help from your hardware manufacturer.
ch
vol

5 Connecting to Peripherals

This chapter describes how you attach peripheral devices to your mini EPC. You can attach a printer or mouse; connect an external monitor and keyboard, or any other peripheral device.

Using the USB Port

USB (Universal Serial Bus) is a hardware interface that enables you to connect multiple devices (such as mouse, keyboard, storage device, joystick, digital camera, and video conference cameras, etc.) to your notebook computer. Besides, USB's hot swap capability allows everything to be plugged in and unplugged without turning the system off.

Microsoft, HP, Compaq, Intel, Agere, NEC and Philip are seven core members of USB-IF to have worked on USB 2.0 standardization. USB 2.0 offers data transfer rate up to 480Mbps (megabits per second) compared to USB 1.1 devices, which transfer at speeds of 12Mbps. So, you could know that USB 2.0 can transfer data between the computer and its peripherals 40 times faster than USB 1.1. However, USB 2.0 is fully backward compatible, you will be able to use a USB 1.1 device in a USB 2.0 compliant system.

Using the LAN Port

This mini EPC is equipped with an internal 10B /100/1000Base-T Gigabit Ethernet LAN module that connects your computer to other computers/networks through a local area network (LAN) and supports data transfer rates at 10/100Mbps and can be up to 1000Mbps. The 100Base-TX is called Fast Ethernet.

To meet higher bandwidth demand, this mini EPC has upgraded Fast Ethernet to Gigabit Ethernet. The network becomes more efficient while downloading movies, music or other multimedia files.

The built-in Gigabit Ethernet LAN module provides a standard RJ-45 connector.

Using the IEEE 1394 Port

IEEE 1394, also known as FireWire, is a high-bandwidth serial bus developed by Apple and Texas Instruments. IEEE 1394 supports 100, 200, and 400 Mbps (Megabit per second) transfer rates and is widely used for downing video from digital camcorders to the computer. In addition to its high speed, IEEE 1394 enables isochronous (real-time) data transfer. This makes it ideal for devices that transfer high-bandwidth of data in real-time, such as video devices. It supports both Plug-and-Play and hot plugging, and also allows for the connection of up to 63 devices.

With built-in IEEE 1394 port, this computer enables the peripheral devices in transmitting digital video data or data backup. The Windows system will automatically recognize it after installing a suitable driver for it. Please visit Microsoft's web site for more information about it. Moreover, you should install the driver of peripheral device to connect with the IEEE 1394 port, for details please refer to the manual that comes with your peripheral device.

Using the Wireless LAN

Wireless LAN is the major breakthrough in computer communication technology. It lets user connect to the LAN environment without using any wire to traditional RJ-45 jack. User can enjoy the wireless connection within the range of Access Point (AP) of LAN.

Access Point (AP) is the wireless transmission and receiving device, it generally connects to the server of a LAN environment or act as a LAN hub with wireless connection. Access point can be set in an office environment, airport, major railway station, etc. that depends on the construction of each country. In most case, you probably can use it at office, please consult with the network department of your company for more details.

This computer integrates built-in Tri-mode 802.11 a/b/g wireless LAN module. with using Intel ® PRO/Wireless network solution by Intel ® Centrino™ mobile technology. IEEE 802.11b standard supports 11 Mbps wireless connection speed. However, IEEE 802.11g supports 54Mbps wireless connection speed, and is backward compatible with the slower 802.11b. Using the orthogonal FDM (ODFM) transmission method, IEEE 802.11a operates in the 5 GHz frequency range and provides up to 54 Mbps connection speed. The higher operating frequency means a shorter transmission radius (about 60 feet). Yet, 802.11a offers more radio channels than 802.11b does. That can help avoid radio and microwave interference. You can connect to the wireless LAN Access Point without insert extra wireless LAN card into the ExpressCard slot.

Wireless LAN module is similar to LAN module. You need to install software driver before using it. Please refer to chapter 2.5 on how to install the driver.

Using the Modem Port

This notebook comes equipped with a 56K internal fax/data modem that allows you to communicate with others via fax, email, or to connect to an online service or bulletin board.

The built-in fax/data modem provides on standard phone connector.

To connect the analog phone cable to your modem:

1. Locate the analog phone cable in the accessories box in notebook shipping carton. Each end of the cable has a RJ-11 connector.
2. Connect one end of the cable into a standard wall outlet.
3. Connect the other end of the cable into the computer modem port.

NOTE: The speed of data transmission is dependent on the quality of telephone lines. Digitally terminated lines improve the speed of data transmission. Contact your service provider for more information.

NOTE: The analog phone cable is an industry standard cable. Longer cables are available at your local electronics store.

6 BIOS Setup

Your mini EPC also uses the Phoenix BIOS Setup program that allows you to set several system configuration in changing the way your computer performs. This includes your system time and date, disk drive configuration and password setup. This information is then stored in the CMOS RAM and will remain permanent unless you change it again..

6.1 Running the BIOS Setup Program

Your mini EPC is likely to have been properly setup and configured by your dealer prior to delivery. However, you may find it necessary to use the mini EPC's BIOS (Basic Input-Output System) Setup program to change system configuration information, such as your hard disk drive type. The Setup program can be accessed when you power on the system and pressing the <**F2**> function key.

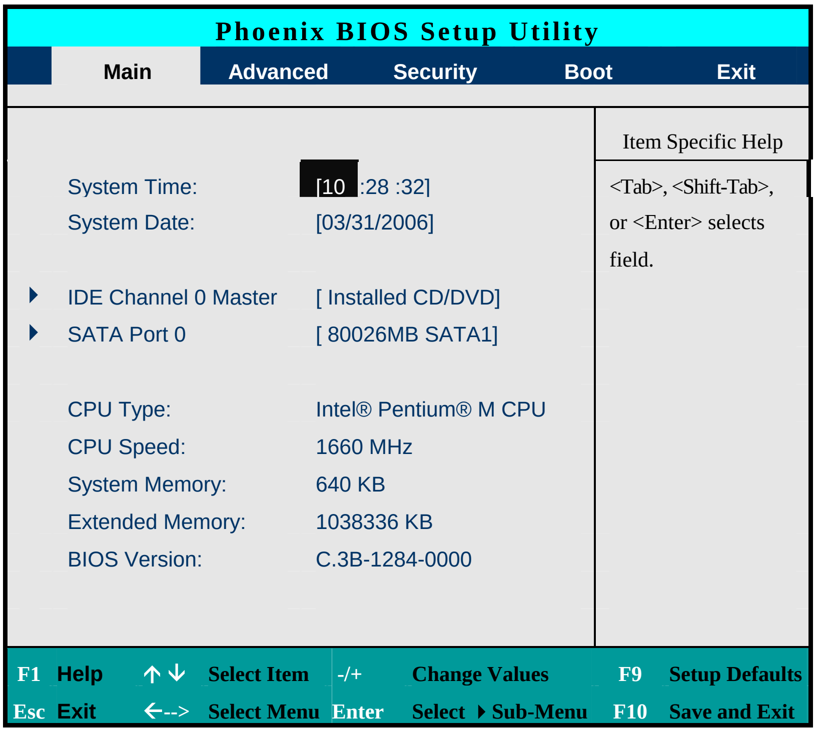
As the POST (Power-On Self Test) executes during the boot up process, the screen will display the following message:

Press <F2> to Enter SETUP

Press the <**F2**> key to run the BIOS Setup program. The BIOS Setup program is organized into five menus which you can select using the <-- and --> keys. To move from one option to another, you use the <+>and <-> keys to change the settings. On the right hand side of the screen are some brief help descriptions of each item you want to change.

To exit the BIOS Setup program, simply press the <Esc> key and select from the Exit menu whether you want to Save changes and exit; Discard Changes and exit.

6.2 Using the Main Menu Setup


Phoenix BIOS Setup Utility
Main
Advanced
Security
Boot
Exit
Item Specific Help
F1 Help
↑↓ Select Item
-/+ Change Values
F9 Setup Defaults
Esc Exit
←--> Select Menu
Enter Select ▸ Sub-Menu
F10 Save and Exit

System Time: [10 :28 :32]
System Date: [03/31/2006]

▸ IDE Channel 0 Master [Installed CD/DVD]
▸ SATA Port 0 [80026MB SATA1]

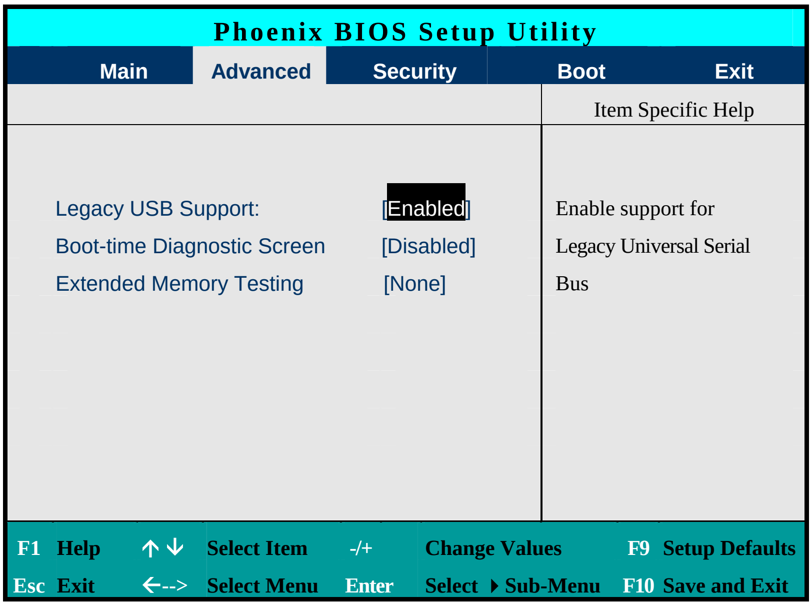
CPU Type: Intel® Pentium® M CPU
CPU Speed: 1660 MHz
System Memory: 640 KB
Extended Memory: 1038336 KB
BIOS Version: C.3B-1284-0000

<Tab>, <Shift-Tab>, or <Enter> selects field.

- System Time
  Allows you to change the system time using the hour: minute: second format of the computer.
  You can also change the system time from your operating system.
- System Date
  Allows you to set the system date using the month/date/year format.
  You can also change the system time from your operating system.
- IDE Channel 0 Master
  This field display various parameters for the hard disk drive. If type [Auto] is selected, the system automatically sets these parameters. If type [User] is selected, Cylinders, Heads and Sectors and other value can be edited.
- SATA Port 0
  This field is for information only as the BIOS automatically detects the optical drive.
- CPU Type
  This field reports the CPU type information detected by the BIOS during Power-On Self-Test (POST).
- CPU Speed
  This field reports the CPU speed information detected by the BIOS during Power-On Self-Test (POST).
- System Memory
  This field reports the amount of base (or conventional) memory found by the BIOS during Power-On Self-Test (POST).

- Extended Memory
  This field reports the amount of extended memory found by the BIOS during Power-On Self-Test (POST).
- BIOS Version
  This field is for information only as the BIOS displays the BIOS version during the Power-On Self-Test (POST).

6.3 Using the Advanced CMOS Setup


Phoenix BIOS Setup Utility
Main
Advanced
Security
Boot
Exit
Item Specific Help
F1 Help
↑↓ Select Item
-/+ Change Values
F9 Setup Defaults
Esc Exit
←--> Select Menu
Enter Select ▸ Sub-Menu
F10 Save and Exit

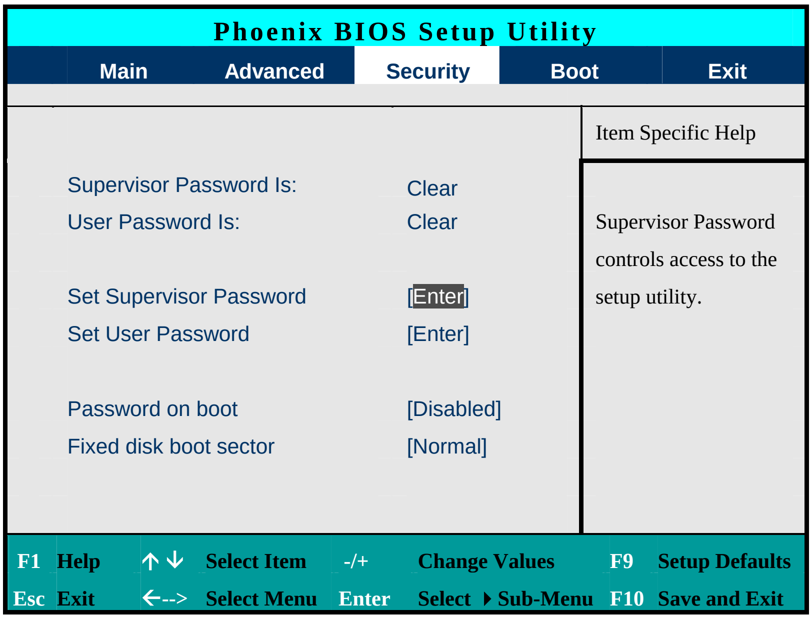
Legacy USB Support: [Enabled]
Boot-time Diagnostic Screen [Disabled]
Extended Memory Testing [None]

Enable support for Legacy Universal Serial Bus

- USB Legacy Support
  Enable or disable the USB Bus support when in connection with USB device.
- Disable Logo screen

Select boot screen using options: [Enabled] to display POST screen, or [Disabled] to display Logo screen.

6.4 Security Menu Setup


Phoenix BIOS Setup Utility
Main
Advanced
Security
Boot
Exit
F1 Help
↑↓ Select Item
-/+ Change Values
F9 Setup Defaults
Esc Exit
←--> Select Menu
Enter Select ▸ Sub-Menu
F10 Save and Exit

Supervisor Password Is:	Clear
User Password Is:	Clear
Set Supervisor Password	[Enter]
Set User Password	[Enter]
Password on boot	[Disabled]
Fixed disk boot sector	[Normal]

Item Specific Help

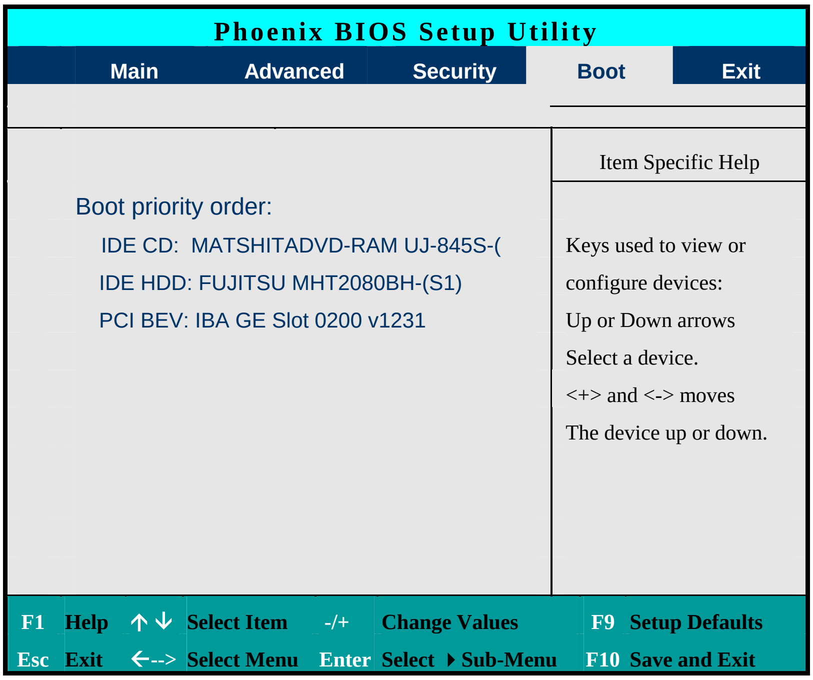
Supervisor Password controls access to the setup utility.

- Supervisor Password Is
  Set/Clear selections show that the notebook is under controlled by Supervisor Password or not.
- User Password Is
  Set/Clear selections show that the notebook is under controlled by User Password or not.

- Set Supervisor Password
  Supervisor password gives you the authority in accessing the setup utility. You also need to enter this password in system booting and resuming from suspend mode. When you press <**Enter**> in this field, the Set Supervisor Password dialog box appears. Enter a new password with up to 8 alpha-numeric characters, and then re-enter it for confirmation.
- Set User Password
  This field is only available when Supervisor Password has set. Enter the user password when boot the system or resume from suspend mode. But if the Write Protect is set in the Fixed disk boot sector field, you should enter a supervisor password to access the fixed disk when boot the system or resume from suspend mode.
- Password on Boot
  If you set this field to Enabled, your computer will always ask for the password every time you boot your computer.
- Fixed Disk Boot Sector
  If you set this field to Write Protect, the write protect boot sector on hard disk will protect against viruses. In this situation, only the supervisor can access the Boot Sector of fixed disk.

6.6 Using the Boot Setup

This item allows you to set the search drive sequence where the system will try to boot up first.


Phoenix BIOS Setup Utility
Main
Advanced
Security
Boot
Exit
Item Specific Help
F1 Help
↑↓ Select Item
-/+ Change Values
F9 Setup Defaults
Esc Exit
←--> Select Menu
Enter Select ▸ Sub-Menu
F10 Save and Exit

Boot priority order:

IDE CD: MATSHITADVD-RAM UJ-845S-(
IDE HDD: FUJITSU MHT2080BH-(S1)
PCI BEV: IBA GE Slot 0200 v1231

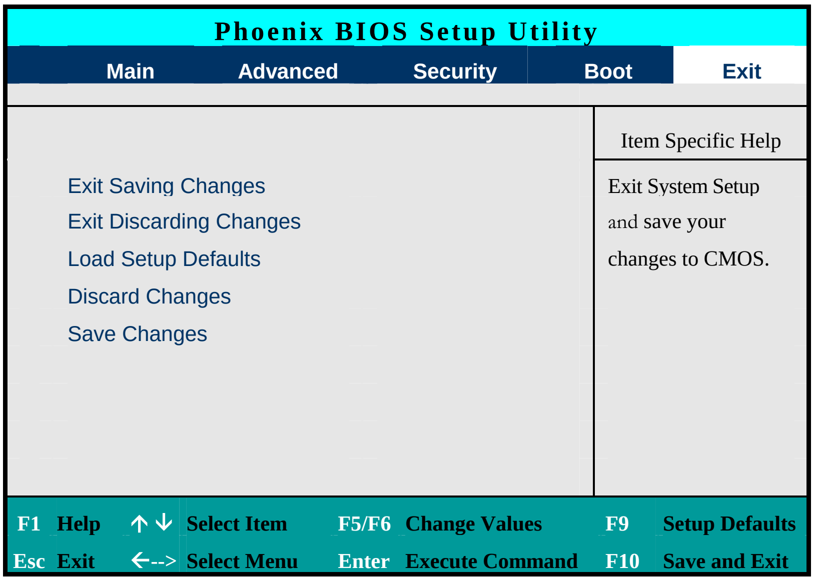
Keys used to view or configure devices:
Up or Down arrows Select a device.
<+> and <-> moves The device up or down.

This page allows you to set the search drive sequence where the system will try to boot up first.

To select the boot device, you can use the up or down arrow key, then press <**+**> to move up the device in the list or press <**-**> to move down the device in the list. To exit from this menu, press <**Esc**>.

6.7 How to Exit the Setup Program

There are two choices to escape from the Setup program.


Phoenix BIOS Setup Utility
Main
Advanced
Security
Boot
Exit
Exit Saving Changes
Exit Discarding Changes
Load Setup Defaults
Discard Changes
Save Changes
Item Specific Help
F1 Help
↑↓ Select Item
F5/F6 Change Values
F9 Setup Defaults
Esc Exit
←--> Select Menu
Enter Execute Command
F10 Save and Exit

Exit System Setup and save your changes to CMOS.

- Exit Saving Changes
  Saves all changes to CMOS while running the BIOS setup program and exit from the system setup program.
- Exit Discarding Changes
  Allows you to discard all changes made while running the BIOS setup program and exit from the system setup program.
- Load Setup Defaults
  Lets you load the default values for all setup items.
- Discard Changes
  Reverts to previously selected settings.

- Save Changes
  Saves Setup data to CMOS.

7 Caring for Your mini EPC

Important Safety Instructions

This section gives you detailed information about how to maintain a safe environment while using the mini EPC. You can maintain its condition and performance by following these guidelines. Please read it carefully to ensure maximum safety.

- Lay the mini EPC on a reliable surface when installing. A drop or fall may cause injury.
- The openings on the enclosure are for air convection hence the mini EPC can be protected from overheating. DO NOT COVER THE OPENINGS.
- Never open the body of mini EPC. For safety reason, the mini EPC should only be opened by qualified service personnel.

Environment

- Please keep the mini EPC from humidity.
- Use only a power adapter approved for use with this mini EPC.

- Though your AC adapter is suitable for universal international voltage, it still requires a stable and continual power supply. Make sure the voltage of the power source when connect the mini EPC to the power outlet. If your are unsure of your local power specifications, consult your dealer or local power company.
- Do not leave this mini EPC in an environment unconditioned. Storage temperature above 60ºC (140ºF) may damage the mini EPC.

The sound pressure level at the operator's position according to IEC 60704-1 is equal or less than 70dB(A).

Power Supply

- All cautions and warnings on the mini EPC should be noted.
- The power adapter may have a 3-prong plug. This is an important safety feature. A compatible outlet is required. If it is not available, find a qualified electrician to install one.
- While unplugging the power cord, disconnect it by the plug head, not by its wire.
- Make sure the socket and any extension cords you may use can support the total current load of all the connected devices.
- If the mini EPC is not in use for a long time, disconnect it from power supply to avoid possible damage by transient over-voltage.

- To avoid any damage happened to the internal device, you should first disconnect the AC adapter when replacing any internal device.

Cleaning Your Mini EPC

When it is necessary to clean the plastic case, use a soft, lint-free cloth, slightly dampened with a mild detergent solution. When cleaning, do not use liquid or sprayed detergent for cleaning. Instead, use moisture sheet or a cloth for cleaning.

Never use alcohol, petroleum-based solvents, or harsh detergents to clean the mini EPC. Also never spray any liquids directly on the computer case, keyboard, or screen.

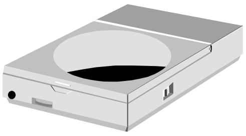
Maintaining Hard Disk

Here is some maintenance you could do:

- Install the antivirus program to monitor virus that could hacker your files.
- Use SCANDISK once in a while to correct any errors found in the directory and File Allocation Table. This will also free up space from any unused sectors.
- Use hard disk maintenance programs like **Disk Defragmenter** of Windows. These reorganize your hard disk by eliminating fragmentation and improving your hard disk access time.
- Install a system password in your computer so others won't be able to use the hard disk.

APPENDIX A

System Specifications



This appendix gives information on the technical and hardware specifications of your computer. Please note that the information mentioned here may not be exactly the same with your computer as specification is subject to change without notice or modifying this manual.

Designed with an advanced modular architecture, your Notebook PC also allows you for several levels of customization and expansion that are previously available only on desktop PCs.

System Specifications

GE2	Specifications
Processor Unit	
	● Intel® Viiv™ technology-based PC ● Intel® Core™ Duo processor T2300~ T2700 ● 2MB/1MB integrated L2 cache
System Memory	
	● Two 200-pin memory slots ● User-upgradeable to maximum 2GB using 200-pin SODIMM 256MB, 512MB or 1024MB modules ● DDR2 –667/533/400 SDRAM modules
Storage	
	● 2.5” Format 9.5mm High SATA HDD Module; Bus Mastering, Ultra DMA ATA-150 Support for LBA Scheme ● Fixed Slot-in DVD-Multi /Combo
Video	
	● Embedded in Intel 945GM sharing with main memory ● 85 Hz Refresh Rate: Max. 1600 x 1200 pixels, up to 32bit Colors
Wireless USB Keyboard	

GE2 Specifications	
	●
Audio	
	● Sound Codec chip: Azalia ACL260 ● Compliant with Intel HD Audio
I/O Ports	
	● One DVI-I Socket ● One AV-In Port ● One TV Port (S-Video) ● Three USB2.0 Ports at rear side ● One USB Port at front side ● 4 in 1 Card Reader (for SD, MS, MMC & MS Pro) Socket (Front side) ● One DC-in Jack ● One IEEE 1394 Port ● TV-Tuner Port (Option)
CTR	● External CIR Remote Control
Audio Ports	● One Headphone/Line Out Jack shared with SPDIF out ● One Microphone/Line in Jack
Communication	
LAN	● Built-in 10/100/1000Base-T Ethernet Giga-LAN
Modem	● 56Kbps v.92 Data/Fax MDC 1.5 (Azalia) Modem Module (Option)

GE2 Specifications	
Wireless	
Bluetooth 2.0	- USB Interface - External Bluetooth Headphone, Keyboard & Mouse
IEEE 802.11a/b/g	- Intel® Pro/Wireless 3945ABG Network Connection (Tri-mode 802.11a/b/g)
Power System	
	- Adapter, AC 100-240Volt, 50-60 Hz, 65W, 20 Voltage or Less
Operating System	
OS	- Windows XP Media Center Edition 2005
Weight and Dimension	
Dimensions Weight	- 226mm (W) x 172mm (D) x 42mm (H) - Approximately 1.3kg