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Version:

User Manual V1.0 in English for 761GXM2MA series motherboard.

Symbol description:

-  **Note:** refers to important information that can help you to use motherboard better.
-  **Attention:** indicates that it may damage hardware or cause data loss, and tells you how to avoid such problems.
-  **Warning:** means that a potential risk of property damage or physical injury exists.

More information:

If you want more information about our products, please visit FOXCONN website: <http://www.foxconnchannel.com>



Declaration of conformity



HON HAI PRECISION INDUSTRY COMPANY LTD
66 , CHUNG SHAN RD., TU-CHENG INDUSTRIAL DISTRICT,
TAIPEI HSIEN, TAIWAN, R.O.C.

declares that the product

Motherboard
761GXM2MA

is in conformity with

(reference to the specification under which conformity is declared in
accordance with 89/336 EEC-EMC Directive)

- EN 55022:1998/A2:2003 Limits and methods of measurements of radio disturbance characteristics of information technology equipment
- EN 61000-3-2:2000 Electromagnetic compatibility (EMC)
Part 3: Limits
Section 2: Limits for harmonic current emissions
(equipment input current \leq 16A per phase)
- EN 61000-3-3/A1:2001 Electromagnetic compatibility (EMC)
Part 3: Limits
Section 2: Limits of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current \leq 16A
- EN 55024:1998/A2:2003 Information technology equipment-Immunity characteristics limits and methods of measurement

Signature :

Place / Date : TAIPEI/2006

Printed Name : James Liang

Position/ Title : Assistant President

Declaration of conformity



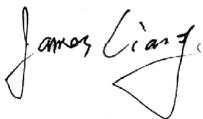
Trade Name: WinFast
Model Name: **761GXM2MA**
Responsible Party: PCE Industry Inc.
Address: 458 E. Lambert Rd.
Fullerton, CA 92835
Telephone: 714-738-8868
Facsimile: 714-738-8838

Equipment Classification: FCC Class B Subassembly
Type of Product: Motherboard
**Manufacturer: HON HAI PRECISION INDUSTRY
COMPANY LTD**
Address: 66 , CHUNG SHAN RD., TU-CHENG
INDUSTRIAL DISTRICT, TAIPEI HSIEN,
TAIWAN, R.O.C.

Supplementary Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Tested to comply with FCC standards.

Signature : 

Date : 2006

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i Attention:

1. Attach the CPU and heatsink using silica gel to ensure full contact.
2. It is suggested to select high-quality, certified fans in order to avoid damage to the motherboard and CPU due to high temperature.
3. Never turn on the machine if the CPU fan is not properly installed.
4. Ensure that the DC power supply is turned off before inserting or removing expansion cards or other peripherals, especially when you insert or remove a memory module. Failure to switch off the DC power supply may result in serious damage to your system or memory module.

i Attention:

We cannot guarantee that your system will operate normally while over-clocked. Normal operation depends on the over-clock capacity of your device.

i Attention:

Since BIOS programs are upgraded from time to time, the BIOS description in this manual is just for reference. We do not guarantee that the content of this manual will remain consistent with the actual BIOS version at any given time in the future.

i Attention:

The pictures of objects used in this manual are just for your reference. Please refer to the physical motherboard.



This manual is suitable for motherboard of 761GXK8MC series. Each motherboard is carefully designed for the PC user who wants diverse features.

- 6 with 6-channel audio
- 8 with 8-channel audio
- E with 1394
- L with onboard 10/100M LAN
- K with onboard Gigabit LAN
- R with RAID
- S with SATA
- 2 with DDR2
- H comply with RoHS directive

You can find PPID label on the motherboard. It indicates the functions that the motherboard has.

For example:



The letters on the black mark of the PPID label mean that the motherboard supports 6-channel Audio (-6)(default), onboard 10/100M LAN (-L)(default), 1394 port (-E), SATA function (-S), DDR2 slot(-2), RoHS directive(-H).



Chapter 1

Thank you for buying WinFast 761GXM2MA series motherboard. This series of motherboard is one of our new products, and offers superior performance, reliability and quality, at a reasonable price. This motherboard adopts the advanced SiS® 761GX + 966/966L chipset, providing users a computer platform with a high integration-compatibility-performance price ratio.

This chapter includes the following information:

- ❖ Main Features
- ❖ Motherboard Layout
- ❖ Rear Panel Connectors

Main Features

Size

- uATX form factor of 9.6" x 8.6"

Microprocessor

- Supports AMD® Socket AM2 Athlon™ 64x2 Dual-Core, Athlon™ 64 and Sempron™ 64 Processor
- Supports HyperTransport™ Technology up to 2000MT/s

Chipset

- SiS® 761GX (North Bridge) + 966/966L (South Bridge)

System Memory

- Two 240-pin DIMM slots
- Supports Dual-Channel DDR2 800/667/533/400
- Supports up to 4GB DDR2 memory

USB 2.0 Ports

- Supports hot plug
- Eight USB 2.0 ports (four rear panel ports, two onboard USB headers providing four extra ports)
- Supports wake-up from S1, S3, S4 and S5 mode
- Supports USB 2.0 protocol up to 480Mbps transmission rate

Onboard Serial ATA II

- 300MBps data transfer rate
- Supports four Serial ATA II connectors (966L chipset only Supports two Serial ATA II connectors)
- Supports RAID 0, RAID 1, RAID 0+1 and JBOD

Onboard LAN (-L/-K) (optional)

- Supports 10/100 (-L) Mbps Ethernet
- Supports 10/100/1000 (-K) Mbps Ethernet
- LAN interface built-in on board

Chapter 1 Product Introduction

Onboard Audio(-6) (optional)

- Supports AC' 97 2.3 Specification
- Onboard Line-in jack, Line-out jack, Microphone jack
- Supports 6-channel audio

Onboard Audio(-8) (optional)

- Supports Intel® High Definition Audio
- Support S/PDIF output
- Supports 8-channel audio

Onboard Graphics

- Support integrated VGA display functions

Green Function

- Supports ACPI (Advanced Configuration and Power Interface)
- Supports S0 (normal), S1 (power on suspend), S3 (suspend to RAM), S4 (suspend to disk-depends on OS), and S5 (soft-off)

Expansion Slots

- Two PCI slots
- One PCI Express X1 slot
- One PCI Express X16 slot

PCI Express X1 function

- support 250MB/s (500MB/s concurrent) bandwidth
- Low power consumption and power management features

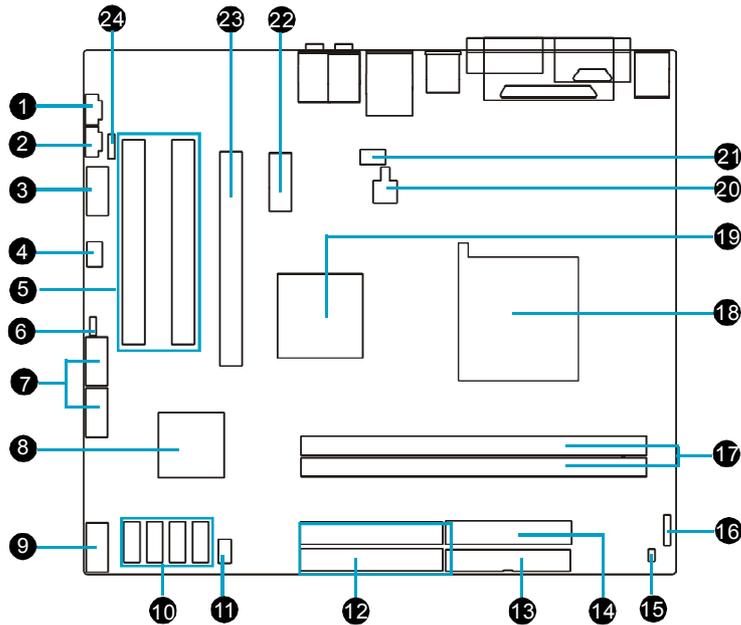
PCI Express X16 function

- support 4 GB/s (8 GB/s concurrent) bandwidth
- Low power consumption and power management features

Advanced Features

- PCI 2.3 Specification Compliant
- Supports Windows 2000/XP soft-off
- Supports PC Health function

Motherboard Layout



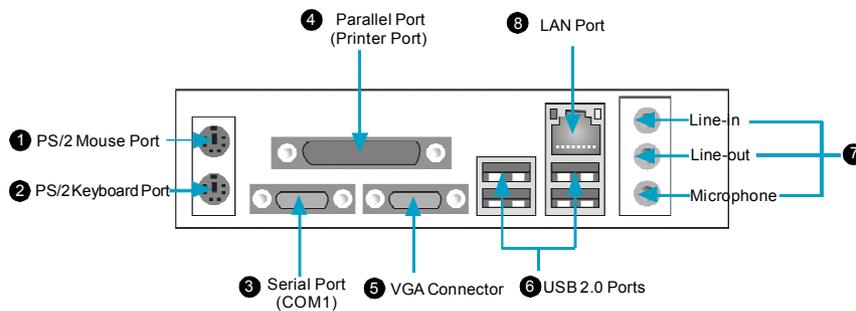
- | | |
|--|-----------------------------|
| 1. CD_IN Connector | 13.FDD Connector |
| 2. AUX_IN Connector | 14.ATX 24-pin Connector |
| 3. F_Audio Connector | 15.INTR Connector |
| 4. System Fan Connector | 16. IrDA Connector |
| 5. PCI Slots | 17. DDR DIMM Slots |
| 6. Clear CMOS Jumper | 18. CPU Socket |
| 7. Front USB Connectors | 19. North Bridge: SiS®761GX |
| 8. South Bridge: SiS® 966/966L Chipset | 20. ATX 12V Power Connector |
| 9. Front Panel Connector | 21.CPU_Fun Connector |
| 10.SATA II Connectors | 22. PCI Express x1 Slot |
| 11. SPI Connector (optional) | 23. PCI Express x16 Slot |
| 12.IDE Connectors | 24. S/PDIF_OUT Connector |

Note: The above motherboard layout is provided for reference only; please refer to the physical motherboard.

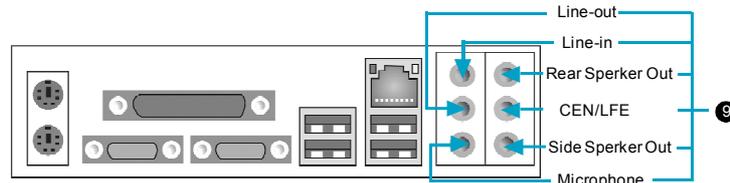
Rear Panel Connectors

This motherboard provides the following ports as below:

-6 models (optional)



-8 models (optional)



7 Line in, Line out, Microphone (for 2/6-channel models)

When using a 2-channel sound source, the Line-out jack is used to connect to speaker or headphone; the Line-in jack connects to an external CD player, tape player or other audio device. The Microphone jack is used to connect to the microphone.

When using a 6-channel sound source, connect the front speaker to the green audio output; connect the surround speaker to the blue audio output; connect the center speaker/subwoofer to the red Microphone output.

9 Line in, Line out, Microphone, rear, CEN/LFE, Side Jacks (for 8-channel models)

When using an 8-channel sound source, connect the front speaker to the green audio output; connect the rear speaker to the black audio output; connect the center/subwoofer to the orange audio output; connect the side speaker to the grey audio output.

Chapter 2

This chapter introduces the hardware installation process, including the installation of the CPU and memory. It also addresses the connection of your power supply, connection of hard drive and floppy drive data cables, and setting up various other feature of the motherboard. Caution should be exercised during the installation process. Please refer to the motherboard layout prior to any installation and read the contents in this chapter carefully.

This chapter includes the following information:

- ❖ CPU
- ❖ Memory
- ❖ Power Supply
- ❖ Other Connectors
- ❖ Expansion Slots
- ❖ Jumpers

Chapter 2 Installation Instructions

CPU

This motherboard Supports AMD® Socket AM2 Athlon™ 64x2 Dual-Core, Athlon™ 64 and Sempron™ 64 Processor with Hyper-Transport Technology. For the detailed CPU support list qualified on this motherboard, please visit the website: <http://www.foxconnchannel.com>

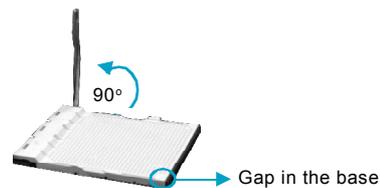
Note :

Please make sure that your CPU has the heatsink and the cooling fan. Please install them properly before turning on.

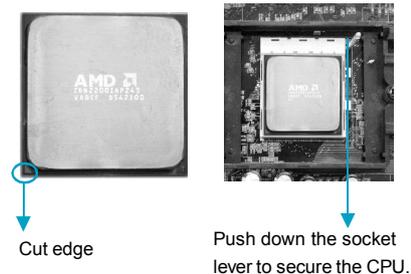
Installation of CPU

Follow these steps to install the CPU.

1. Unlock the socket by pressing the lever sideways, then lift it up to a 90° angle.



2. Align the cut edge to the gap in the base of the socket. Carefully insert the CPU into the socket until it fits in place.



3. When the CPU is in place, press it firmly on the socket while you push down the socket lever to secure the CPU. The lever clicks on the side tab to indicate that it is locked.



Chapter 2 Installation Instructions

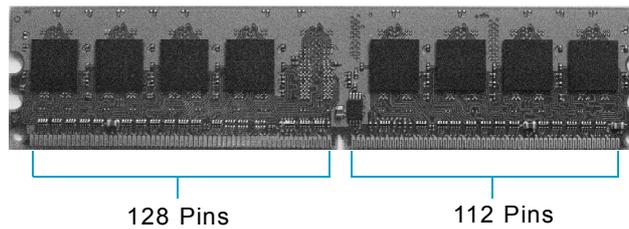
Memory

This motherboard includes two 240-pin DDR2 slots, You must install at least one memory module to ensure normal operation.

For the detailed memory modules support list qualified on this motherboard, please visit the website:<http://www.foxconnchannel.com>

Installation of DDR Memory

1. There is only one gap in the center of the DIMM slot, and the memory module can be fixed in one direction only.
2. Align the memory module to the DIMM slot, and insert the module vertically into the DIMM slot.



3. The plastic clips at both sides of the DIMM slot will lock automatically.

Warning:

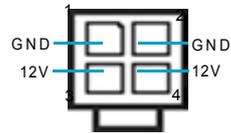
Be sure to unplug the AC power supply before adding or removing expansion cards or other system peripherals, especially the memory devices, otherwise your motherboard or the system memory might be seriously damaged.

Power Supply

This motherboard uses an ATX power supply. In order to avoid damaging any devices, make sure that they have been installed properly prior to connecting the power supply.

ATX 12V Power Connector: PWR2

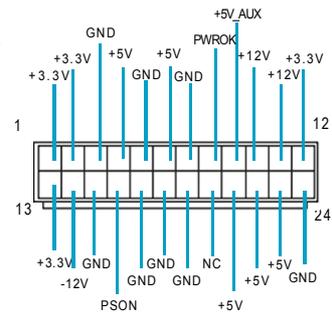
The 4-pin ATX 12V power supply connects to PWR2 and provides power to the CPU.



4-Pin ATX 12V Connector

ATX Power Connector: PWR1

PWR1 is the ATX power supply connector. Make sure that the power supply cable and pins are properly aligned with the connector on the motherboard. Firmly plug the power supply cable into the connector and make sure it is secure.



24-Pin ATX Power Connector

i Attention:

We recommend you use 24-pin power supply. If you want to use 20-pin power supply, you need to align the ATX power connector according to the right picture.



Chapter 2 Installation Instructions

Other Connectors

This motherboard includes connectors for FDD devices, IDE HDD devices, SATA devices, USB devices, IR module, CPU fan, system fan, and others.

FLOPPY

This motherboard includes a standard FLOPPY interface, supporting 360 K, 720 K, 1.2 M, 1.44 M, and 2.88 M FDDs.

IDE Connectors: PIDE & SIDE

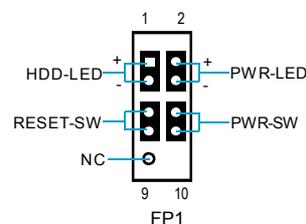
These connectors support the provided UltraDMA133/100/66 IDE hard disk ribbon cable and you can configure as a disk array through RAID controller. Refer to RAID manual (in CD) for details on how to set up RAID configurations. Connect the cable's blue connector to the primary (recommended) or secondary IDE connector, then connect the gray connector to the slave device (hard disk drive) and the black connector to the master device.

i Attention:

If you install two IDE device, you must configure the second drive as a slave device.

Front Panel Connector: FP1

This motherboard includes one connector for connecting the front panel switch and LED indicator.



Hard Disk LED Connector (HDD-LED)

The connector connects to the case's IDE indicator LED indicating the activity status of hard disks.

Reset Switch (RESET-SW)

Attach the connector to the Reset switch on the front panel of the case; the system will restart when the switch is pressed.

Chapter 2 Installation Instructions

Power LED Connector (PWR-LED)

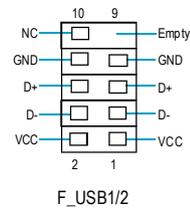
Attach the connector to the power LED on the front panel of the case. The Power LED indicates the system's status. When the system is in S0 status, the LED is on. When the system is in S1 status, the LED is blink. When the system is in S3, S4, S5 status, the LED is off.

Power Switch Connector (PWR-SW)

Attach the connector to the power button on the front panel of the case. Pushing this switch allows the system to be turned on and off rather than using the power supply button.

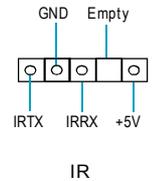
USB Header: F_USB 1, F_USB 2

Besides four USB ports on the rear panel, the series of motherboards also have two connectors on board which may connect to front or rear panel USB cable to provide additional four USB ports.



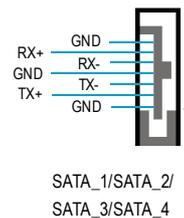
IrDA Header: IR

The IrDA infrared transmission allows your computer to send and receive data via an infrared ray. The relevant parameters for the BIOS Integrated Peripherals should be set prior to using this function.



Serial ATA Connectors: Serial ATA -1, Serial ATA -2, Serial ATA -3, Serial ATA -4

This motherboard includes four SATAII connector, The Serial ATAII connector is used to connect the Serial ATAII device. The current Serial ATAII interface allows up to 300MB/s data transfer rate.

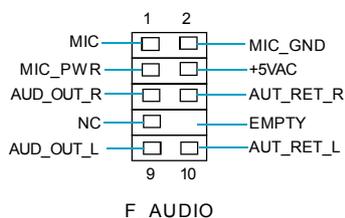


Chapter 2 Installation Instructions

Audio Interface: F_AUDIO

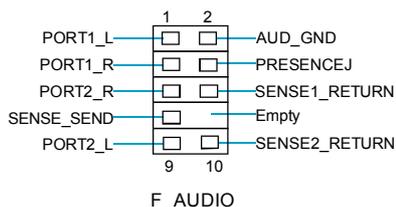
-6 channel (optional)

The audio interface provides two kinds of audio output choices: the Front Audio, the Rear Audio. Their priority is sequenced from high to low (Front Audio to Rear Audio). If headphones are plugged into the front panel of the chassis (using the Front Audio), then the Line-out (Rear Audio) on the rear panel will not work. If you do not want to use the Front Audio, pin 5 and 6, pin 9 and 10 must be short, and then the signal will be sent to the rear audio port.



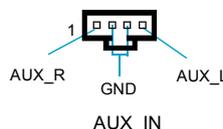
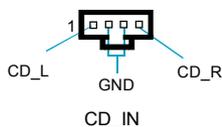
-8 channel (optional)

The audio connector provide two kinds of audio output choices: the front Audio, the Rear Audio. Front Audio supports re-tasking function, Their priority is the same.



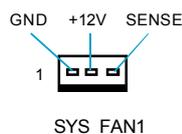
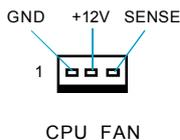
Audio Connectors: CD_IN, AUX_IN (Optional)

CD_IN, AUX_IN is Sony standard CD audio connector. It can be connected to a CD-ROM drive through a CD audio cable.



Fan Connectors: CPU_FAN, SYS_FAN1

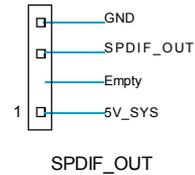
There are two fan headers on this motherboard. These fans will be automatically turned off after the system enters suspend mode.



Chapter 2 Installation Instructions

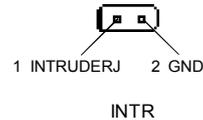
S/PDIF Out Connector: SPDIF_OUT

The S/PDIF out connector is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby digital decoder.



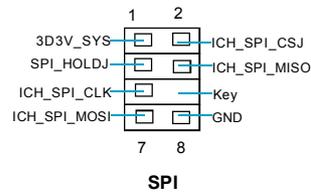
Chassis Intruder Connector: INTR

The connector connects to the chassis security switch on the case. The system can detect the chassis intrusion through the status of this connector. If the connector has been closed once, the system will send a message. To utilize this function, set "Case Open Warning" to "Enabled" in the "Power Management Setup" section of the CMOS Setup. Save and exit, then boot the operating system once to make sure this function takes effect.



SPI Connector: SPI (optional)

This motherboard provides a SPI connector, which is used to refresh the SPI BIOS. Connect one side of a cable to the connector, then attach the BIOS Flash Card to the other side of the cable.



Chapter 2 Installation Instructions

Expansion Slots

This motherboard includes two 32-bit Master PCI bus slots , one PCI Express x1 slot and one PCI Express x16 slot.

PCI Slots

The expansion cards can be installed in the two PCI slots. When you install or take out such cards, you must make sure that the power plug has been pulled out. Please read carefully the instructions provided for such cards, and install and set the necessary hardware and software for such cards, such as the jumper or BIOS settings.

PCI Express Slots

PCI Express will offer the following design advantages over the PCI and AGP interface:

- Compatible with existing PCI drivers and software and Operating Systems.
- High Bandwidth per Pin. Low overhead. Low latency.
- PCI Express supports a raw bit-rate of 2.5 Gb/s on the data pins. This results in a real bandwidth per pair of 250 MB/s.
- A point to point connection, allows each device to have a dedicated connection without sharing bandwidth.
- Ability to comprehend different data structure.
- Low power consumption and power management features.

PCI Express will take two forms, x16 and x1 PCI Express slots. Whereas the x16 slot is reserved for graphic/video cards, the x1 slots are designed to accommodate less bandwidth-intensive cards, such as a modem or LAN card.

The difference in bandwidth between the x16 and x1 slots are not able to be sure, with the x16 slot pushing 4GB/s(8GB/s concurrent) of bandwidth, and the x1 PCI Express slot offering 250MB/s.

Chapter 2 Installation Instructions

Installing an expansion card

1. Before installing the expansion card, read the documentation that came with it and make the necessary hardware settings for the card.
2. Make sure to unplug the power cord before adding or removing expansion cards.
3. Align the card connector with the slot and press firmly until the card is completely seated on the slot.
4. Secure the card to the chassis with the screw you removed earlier.

 **Warning:**

If a performance graphics card was installed into x16 PCI Express slot, 24 pin power supply was recommended.

Jumpers

Users can change the jumper settings on this motherboard if needed. This section explains how to use the various functions of this motherboard by changing the jumper settings. Users should read the following contents carefully prior to modifying any jumper settings.

Description of Jumpers

1. For the jumpers on this motherboard, pin 1 can be identified by the thick silk-screen next to it. However, in this manual, pin 1 is simply labeled as “1”.
2. The following table provides some explanation of the jumper pin settings. Users should refer to this when adjusting jumper settings.

Jumper	Diagram	Definition	Description
1		1-2	Set pin 1 and pin 2 closed
		2-3	Set pin 2 and pin 3 closed
1		Closed	Set the pin closed
		Open	Set the pin opened

Clear CMOS Jumper: CLS_CMOS

This motherboard uses the CMOS RAM to store all the set parameters. The CMOS can be cleared by removing the CMOS jumper. Reference the following process.

1. Turn off the AC power supply and connect pins 1 and 2 together using the jumper cap.
2. Return the jumper setting to normal (pins 2 and 3 locked together with the jumper cap).
3. Turn on the system.

Normal
(default)



Clear



Clear CMOS Jumper

Warning:

1. Disconnect the power cable before adjusting the jumper settings.
2. Do not clear the CMOS while the system is turned on.

Chapter 3

This chapter tells how to change system settings through the BIOS Setup menus. Detailed descriptions of the BIOS parameters are also provided.

You have to run the Setup Program when the following cases occur:

1. An error message appears on the screen during the system POST process.
2. You want to change the default CMOS settings.

This chapter includes the following information:

- ❖ Enter BIOS Setup
- ❖ Main Menu
- ❖ Standard CMOS Features
- ❖ BIOS Features
- ❖ Advanced BIOS Features
- ❖ Advanced Chipset Features
- ❖ Integrated Peripherals
- ❖ Power Management Setup
- ❖ PnP/PCI Configurations
- ❖ PC Health Status
- ❖ Frequency/Voltage Control
- ❖ Load Fail-Safe Defaults
- ❖ Load Optimized Defaults
- ❖ Set Supervisor/User Password
- ❖ Save & Exit Setup
- ❖ Exit Without Saving

Enter BIOS Setup

The BIOS is the communication bridge between hardware and software, correctly setting up the BIOS parameters is critical to maintain optimal system performance. Power on the computer, when the following message briefly appears at the bottom of the screen during the POST (Power On Self Test), press key to enter the Award BIOS CMOS Setup Utility.

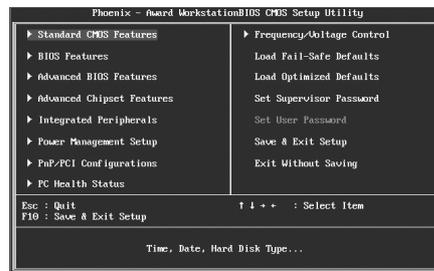
Press TAB to show POST Screen, DEL to enter SETUP,ESC to enter Boot Menu.

Note:

We do not suggest that you change the default parameters in the BIOS Setup, and we shall not be responsible for any damage that result from any changes that you make.

Main Menu

The main menu allows you to select from the list of setup functions and two exit choices. Use the arrow keys to select among the items and press <Enter> to accept or go to the sub-menu.



Main Menu

The items in the BIOS Setup main menu are explained below:

Standard CMOS Features

The basic system configuration can be set up through this menu.

BIOS Features

The general system features can be set up through this menu.

Advanced BIOS Features

The advanced system features can be set up through this menu.

Advanced Chipset Features

The values for the chipset can be changed through this menu, and the system performance can be optimized.

Integrated Peripherals

All onboard peripherals can be set up through this menu.

Power Management Setup

All the items of Green function features can be set up through this menu.

PnP/PCI Configurations

The system's PnP/PCI settings and parameters can be modified through this menu.

PC Health Status

This will display the current status of your PC.

Frequency/Voltage Control

Frequency and voltage settings can be adjusted through this menu.

Load Fail-Safe Defaults

The default BIOS settings can be loaded through this menu.

Load Optimized Defaults

The optimal performance settings can be loaded through this menu, however, the stable default values may be affected.

Set Supervisor/User Password

The supervisor/user password can be set up through this menu.

Save & Exit Setup

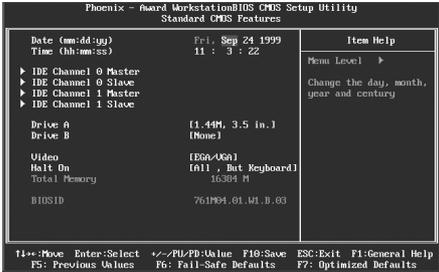
Save CMOS value settings to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

Standard CMOS Features

This sub-menu is used to set up the standard CMOS features, such as the date, time, HDD model and so on. Use the arrow keys select the item to set up, and then use the <PgUp> or <PgDn> keys to choose the setting values.



Standard CMOS Features Menu

Date

This option allows you to set the desired date (usually as the current date) with the <day><month><date><year> format.

- day weekday from Sun. to Sat., defined by BIOS (read-only).
- month month from Jan. to Dec.
- date date from 1st to 31st, can be changed by using the keyboard.
- year year, set up by users.

Time

This option allows you to set up the desired time (usually as the current time) with <hour><minute><second> format.

IDE Channel 0/1 Master/Slave & Channel 2/3 Master

These categories identify the HDD types of 4 IDE channels installed in the computer system. There are three choices provided for the Enhanced IDE BIOS: None, Auto, and Manual. "None" means no HDD is installed or set; "Auto" means the system can auto-detect the hard disk when booting up; by choosing "Manual" and changing Access Mode to "CHS", the related information should be entered manually. Enter the information directly from the keyboard and press < Enter>:

Cylinder	number of cylinders	Head	number of heads
Precomp	write pre-compensation	Landing Zone	Landing Zone
Sector	number of sectors		

Chapter 3 BIOS Description

Award (Phoenix) BIOS can support 4 HDD modes: CHS, LBA and Large or Auto mode.

CHS	For HDD<528MB
LBA	For HDD>528MB & supporting LBA (Logical Block Addressing)
Large	For HDD>528MB but not supporting LBA
Auto	Recommended mode

Drive A/B

This option allows you to select the kind of FDD to be installed, including "None", [360K, 5.25in], [1.2M, 5.25in], [720K, 3.5in], [1.44M, 3.5in] and [2.88 M, 3.5in].

Video

The following table is provided for your reference in setting the display mode for your system.

EGA/VGA	Enhanced Graphics Adapter / Video Graphic Array. For EGA, VGA, SEGA, SVGA, or PGA monitor adapters.
CGA 40	Color Graphic Adapter, powering up in 40 column mode.
CGA 80	Color Graphic Adapter, powering up in 80 column mode.
MONO	Monochrome adapter, including high resolution monochrome adapters.

Halt On

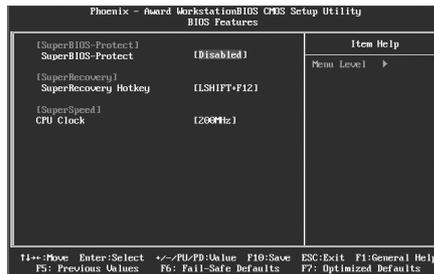
This category determines whether or not the computer will stop if an error is detected during powering up.

All Errors	Whenever the BIOS detects a nonfatal error, the system will stop and you will be prompted.
No Errors	The system boot will not stop for any errors that may be detected.
All, But Keyboard	The system boot will not stop for a keyboard error; but it will stop for all other errors.
All, But Diskette	The system boot will not stop for a diskette error; but it will stop for all other errors.
All, But Disk/Key	The system boot will not stop for a keyboard or a disk error, but it will stop for all other errors.

Total Memory

This is a Displays-Only information of the system memory, determined by POST(Power On Self Test) of the BIOS.

BIOS Features



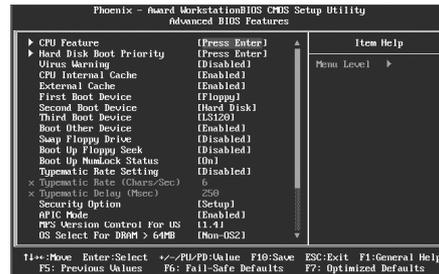
BIOS Features Menu

- ❖ **[SuperBIOS-Protect] SuperBIOS-Protect**
SuperBIOS Protect function protects your PC from being affected by viruses, e.g. CIH.
- ❖ **[SuperRecovery] SuperRecovery Hotkey**
SuperRecovery provides the users with an excellent data protection and HDD recovery function.
- ❖ **[SuperSpeed] CPU Clock**
The conventional over-clock method uses the jumpers on the motherboard, and it is both troublesome and apt to errors. By using SuperSpeed, a CPU can be overclocked by keying in the desired in the CPU clock range.

⚡ Warning:

Be sure your selection is right. CPU overclock will be dangerous!
We will not be responsible for any damage caused.

Advanced BIOS Features



Advanced BIOS Features Menu

❖ CPU Feature

Press enter to set the items about CPU Feature.

❖ Hard Disk Boot Priority

This option is used to select the priority for HDD startup. After pressing <Enter>, you can select the HDD using the <PageUp>/<PageDn> or Up/Down arrow keys, and change the HDD priority using <+> or <->; you can exit this menu by pressing <Esc>.

❖ Virus Warning

This option is used to set up the virus warning message for the IDE HDD boot sector. When set to Enabled, a warning message will appear on the screen if any program wants to write any information to this sector, and will give an audible warning.

Note: Such function provides protection to the startup sector only; it does not protect the entire hard disk.

❖ CPU Internal Cache

This item is used to turn on or off the CPU external cache. Leave this item at the default value for better performance.

❖ External Cache

This item is used to turn on or off the CPU external cache. Leave this item at the default value for better performance.

❖ First/Second/Third Boot Device

This option allows you to set the boot device sequence.

❖ Boot Other Device

With this function set to enabled, the system will boot from some other devices if the first/second/third starting devices failed.

❖ **Swap Floppy Drive**

If you have two floppy diskette drives in your system, this item allows you to swap the assigned drive letters.

❖ **Boot Up Floppy Seek**

This option controls whether the BIOS checks for a floppy drive while booting up. If it cannot detect one (either due to improper configuration or physical unavailability), it will appear an error message. Disable this option, POST will not detect the floppy.

❖ **Boot Up NumLock Status**

This item defines if the keyboard Num Lock key is active when your system is started.

❖ **Typematic Rate Setting**

If this item is enabled, you can use the following two items to see the typematic rate and the typematic delay settings for your keyboard.

❖ **Typematic Rate (Chars/Sec)**

Use this item to define how many characters per second a held-down key generated.

❖ **Typematic Delay (Msec)**

Use this item to define how many milliseconds must elapse before a held-down key begins generating repeat characters.

❖ **Security Option**

When it is set to setup, a password is required to enter the CMOS Setup screen; when it is set to system, a password is required not only to enter CMOS Setup, but also to startup your PC, as well.

❖ **APIC Mode**

This option is used to enable or disable APIC function.

❖ **MPS Version Control For OS**

This option is used to set up the version of MPS Table used in NT4.0 OS.

❖ **OS Select For DRAM > 64MB**

This item is only required if you have installed more than 64 MB of memory and you are running the OS/2 operating system. Otherwise, leave this item at the default.

Chapter 3 BIOS Description

❖ **HDD S.M.A.R.T Capability**

This option is used to enable or disable hard disk's S.M.A.R.T.(Self-Monitoring, Analysis,and Reporting Technology) support function.

❖ **Report No FDD For WIN 95**

If you are using the Windows 95 and running a system with no floppy drive, select "Yes" for this item to ensure compatibility with Windows 95 logo certification.

❖ **Video BIOS Shadow**

This item Enabled or Disabled copies video BIOS to shadow DRAM,which can improve performance.

❖ **Delay For HDD (Secs)**

This option is used to set the delay time of selecting the HDD controller.

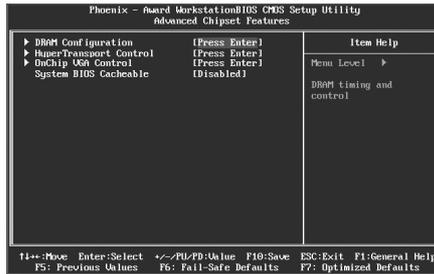
❖ **Full Screen LOGO Show**

This item allows you to enable or disable full screen logo.

❖ **Small Logo (EPA) Show**

This item allows you to enable or disable the EPA logo.

Advanced Chipset Features



Advanced Chipset Features Menu

❖ DRAM Configuration

Press enter to set the items about DRAM Configuration.

❖ HyperTransport Control

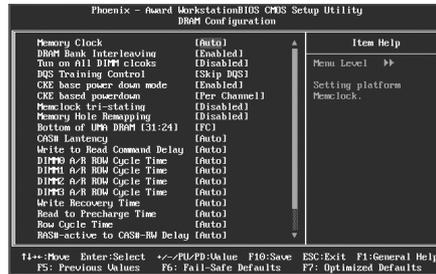
Press enter to set the items about HyperTransport Control.

❖ OnChip VGA Control

Press enter to set the items about OnChip VGA Control.

❖ System BIOS Cacheable

Select "Enabled" to allow catching of the system BIOS which may improve performance. If any other program writes to this memory area, a system error may result.



DRAM Configuration Menu

❖ Memory clock

This item is used to set memclock.

❖ DRAM Bank interleaving

This item is used to set the DRAM Bank interleaving.

❖ Tun on all DIMM Cllocks

This item is used to set if open DIMM clocks.

❖ DQS Training Control

This item is used to Control DQS Training.

❖ CKE base power down mode

This item is used to set the mode of the CKE base power down.

❖ CKE base powerdown

This item is used to set CKE base powerdown.

❖ Memclock tri-stating

This item is used to set Memclock tri-stating.

❖ Memory Hole Remapping

This item is used to enable or disable the memory hole remapping.

❖ Bottom of UMA DRAM [31:24]

This item is used to set Bottom of UMA DRAM [31:24].

❖ CAS# Latency

This option controls the CAS latency, which determines the timing delay (in clock cycles) before SDRAM starts a read command after receiving it.

❖ Write to Read Command Delay

It is used to set minimum Write-to-read delay when both access the same chip selt.

❖ DIMM0/1/2/3 A/R ROW Cycle Time

This item is uased to set the minimum time from an auto-refresh command to an active command or another auto-refresh command.

❖ Write Recovery Time

It measures from the last data to precharge when the last write datum is safely registered by the DRAM.(write can go back-to-back)

❖ Read to precharge Time

This item is uased to set the read CAS# to precharge time.

❖ Row Cycle Time

This item is used to set the time RAS#-Active to RAS#-Active or auto refresh of the same bank.

❖ RAS#-active to CAS#-RW delay

This item is used to set the RAS# to CAS# delay for a read write command to the same bank.

❖ RAS#-to-RAS# delay

This item is used to set the active-to-active delay of different banks.

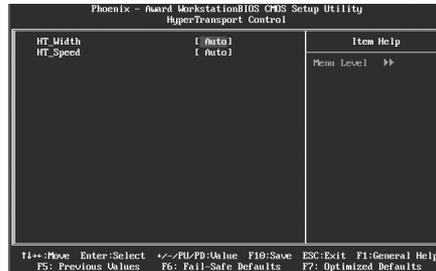
❖ Row Precharge Time

This item controls the number of cycles for Row Address Strobe (RAS) to be allowed to precharge. If insufficient time is allowed for the RAS to accumuate its charge befor DRAM refresh, refreshing may be incomplete andDRAM may fail to retain data.This item applies only when synchronous DRAM is installed in the system.

❖ Minmum RAS# Active Time

This item is used to set the minimum RAS# active time.

Chapter 3 BIOS Description



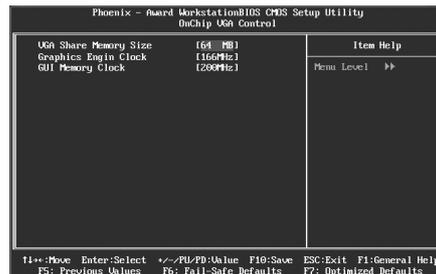
HyperTransport Control Memu

❖ HT-Width

The available setting values are:8 bits,16 bits and Auto.

❖ HT-Speed

The available setting values are:200MHz,400MHz,600Mhz and 800MHZ.



Onchip VGA Control Memu

❖ VGA Share Memory Size

This option selects the size of on-chip frame buffer for vga output.

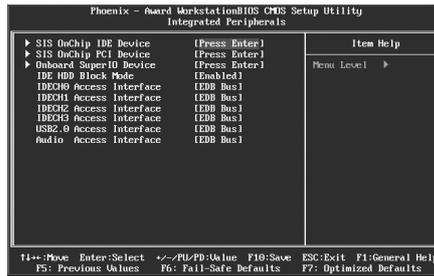
❖ Graphics Engin clock

This option is used to set onchip AGP graphics engin clock.

❖ GUI Memory Clock

This option is used to set GUI Memory Clock.

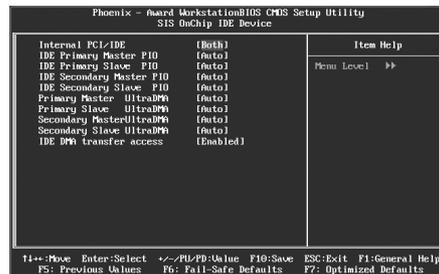
Integrated Peripherals



Integrated Peripherals Menu

- ❖ **SIS OnChip IDE Device**
Press enter to set onchip IDE device.
- ❖ **SIS OnChip PCI Device**
Press enter to set onchip PCI device.
- ❖ **Onboard SuperIO Device**
Press enter to set onchip onboard SuperIO device.
- ❖ **IDE HDD Block Mode**
This item is used to set whether the IDE HDD Block Mode is allowed.
- ❖ **IDECH0/1/2/3 Access Interface**
This option is used to set which display device will be used first when your PC starts up.
- ❖ **USB2.0/Audio Access Interface**
This item is used to set the USB2.0 /Audio Access interface.

Chapter 3 BIOS Description



SIS Onchip IDE Device Menu

❖ Internal PCI/IDE

This option is used to set the ports of onboard IDE.

❖ IDE Primary/Secondary Master/Slave PIO

These four items let you assign which kind of PIO (Programmer Input/Output) is used by IDE devices. Choose "Auto" to let the system auto detect which PIO mode is the best or select a PIO mode from 0-4.

❖ Primary/Secondary Master/Slave UltraDMA

UltraDMA technology provides faster access to IDE devices. If you install a device that supports UltraDMA, change the appropriate items on this list to Auto.

❖ IDE DMA transfer access

This option is used to enable or disable IDE DMA transfer access.

Chapter 3 BIOS Description



SIS OnChip PCI Device Menu

❖ SIS USB Controller

This option is used to enable or disable SIS USB controller.

❖ USB 2.0 Supports

This option is used to enable or disable USB 2.0.

❖ USB Keyboard Support

This option is used to set USB keyboard support.

❖ USB Mouse Support

This option is used to set USB mouse support.

❖ Audio Controller Select

This option is used to set audio controller.

❖ SiS Serial ATA Controller

This option is used to enable or disable SiS serial ATA controller.

❖ SiS Serial ATA Mode

This option is used to set Serial ATA mode.

❖ SiS PCIEXP Controller

This option is used to set whether the PCIEXP controller is enabled.

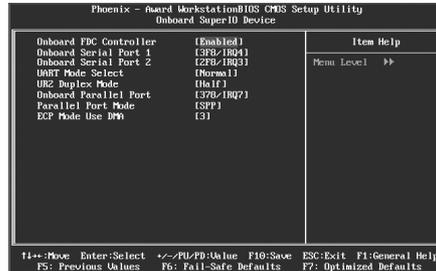
❖ Onboard Lan Devices

This option is used to set whether the onboard lan devices is enabled.

❖ Onboard Lan Boot ROM

This option is used to set whether to invoke the boot ROM of the onboard LAN chip.

Chapter 3 BIOS Description



Onboard SuperIO Device Menu

❖ Onboard FDC Controller

This option is used to set whether the onboard FDC controller is enabled.

❖ Onboard Serial Port 1/2

These options are used to assign the I/O address and interrupt request (IRQ) for the onboard serial port 1/2.

Note: Do not try to set the same values for serial port 1 and 2.

❖ UART Mode Select

Use this option to select the UART mode. Setting values include Normal, IrDA, ASKIR and SCR. The setting value is determined by the infrared module installed on the board.

❖ UR2 Duplex Mode

This option is available when UART 2 mode is set to either ASKIR or IrDA. This option enables you to determine the infrared function of the onboard infrared chip.

❖ Onboard Parallel Port

This option allows you to determine onboard parallel port controller I/O address and interrupt request(IRQ).

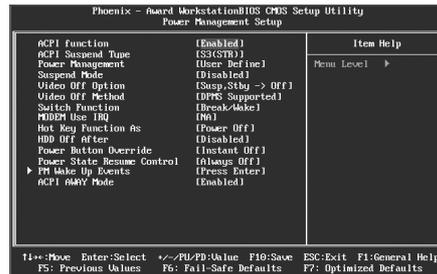
❖ Parallel Port Mode

Select an address and corresponding interrupt request for the onboard parallel port.

❖ ECP Mode Use DMA

Select a DMA channel for the parallel port when using the ECP mode. This field is only configurable if Parallel Port Mode is set to ECP or ECP+EPP.

Power Management Setup



Power Management Setup Menu

❖ ACPI function

ACPI stands for “Advanced Configuration and Power Interface”. In order to use this function the ACPI specification must be supported by the OS (for example, Windows 98SE/2000/ME).

❖ ACPI Suspend Type

This option is used to set the energy saving mode of the ACPI function. When you select “S1 (POS)” mode, the power will not shut off and the supply status will remain as it is, in S1 mode the computer can be resumed at any time. When you select “S3 (STR)” mode, the power supply only for the main parts after a delay period. The status of the computer before it enters STR will be saved in memory, and the computer can quickly return to previous status when the STR function wakes.

❖ Power Management

This option is used to set the power management scheme.

❖ Suspend Mode

This option is used to set the idle time before the system enters into sleep status.

❖ Video Off Option

This option is used to set video off option/Method. The setting values are Always On, Suspend -> Off, Susp, Stby -> Off, All Modes -> Off.

❖ Video Off Method

This option is used to set video off Method.

❖ Switch Function

This option is used to enable or disable switch function to wake up.

❖ **MODEM Use IRQ**

This option is used to set the IRQ in which the modem can use. The system will automatically wake up when the modem receives an incoming call.

❖ **Hot Key Function As**

This option is used to set the hot key function.

❖ **HDD Off After**

This option is used to set the time before HDD off.

❖ **Power Button Override**

This option is used to set the item of power button override.

❖ **Power State Resume Control**

This option is used to set the power state resume.

❖ **PM Wake Up Events**

Press enter to set the items of PM Wake Up Events.

❖ **ACPIAWAY Mode**

This option is used to set whether the ACPI AWAY mode is enabled.



PM Wake up Events menu

❖ **IRQ [3-7,9-15] NMI**

This option is used to set if open IRQ [3-7,9-15] NMI mode.

❖ **IRQ 8 Break Suspend**

This option is used to set if use IRQ 8 to resume the system from the Suspend mode.

❖ **RING Power Up Control**

This option is used to enable or disable the system to be waken up by a incoming call to an installed fax/modem.

Chapter 3 BIOS Description

❖ PCIPME Power Up Control

This option is used to enable or disable the system to be waken up by PCI card.

❖ PS2KB Wakeup from S3/S4/S5

This option used to set which action will wake up PS/2 keyboard from S3/S4/S5 status. The hotkey is Ctrl+Alt+Backspace. The setting values are Any Key, Hot Key, Password.

❖ PS2MS Wakeup from S3/S4/S5

This option used to set which action will wake up PS/2 keyboard from S3/S4/S5 status. The setting values are: Disabled, Click, Move&Click.

❖ Power Up By Alarm

This option is used to enable or disable the feature of boot up the system on a scheduled time/date. When it set as "Enabled", the following three items can be used.

❖ Month Alarm

It is used to set the timing for the start-up month. The setting values contain 0-12 and NA.

❖ Day of Month Alarm

It is used to set timing for the start-up date. The setting values contain 0-31.

❖ Time (hh:mm:ss) Alarm

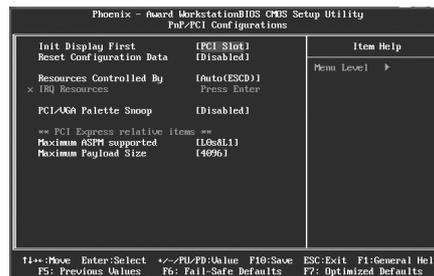
It is used to set the timing for the start-up time. The setting values contain hh: 0-23; mm: 0-59; ss: 0-59.

❖ Reload Global Timer Events

Primary IDE/Secondary IDE/FDD, COM, LPT, Port/PCI PIRQ[A-D]#

When Enabled, an event occurring on each listed device restarts the global timer for Standby mode.

PnP/PCI Configurations



PnP/PCI Configurations Menu

❖ Init Display First

This item is used to set which display device will be used first when your PC starts up.

❖ Reset Configuration Data

This option is used to set whether the system is permitted to automatically distribute IRQ DMA and I/O addresses when each time the machine is turned on.

❖ Resources Controlled By

This option is used to define the system resource control scheme. If all cards you use support PnP, then select Auto (ESCD) and the BIOS will automatically distribute interruption resources. If the ISA cards you installed not supporting PnP, you will need to select “Manual” and manually adjust interruption resources in the event of hardware conflicts. However, since this motherboard has no ISA slot, this option does not apply.

❖ IRQ Resources

Press the <Enter> key, then manually set IRQ resources.

❖ PCI/VGA Palette Snoop

If you use a non-standard VGA card, use this option to solve graphic acceleration card or MPEG audio card problems (e.g., colors not accurately displayed).

❖ PCI Express relative items

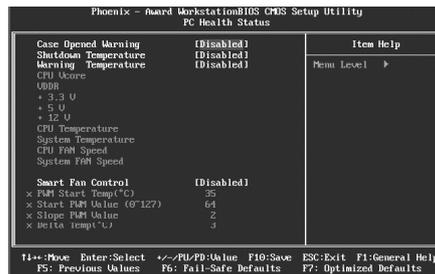
Maximum ASPM support

This item is used to set maximum ASPM for PCI Express device. The unit is byte.

Maximum ASPM sup/payload

This item is used to set maximum payload size for PCI Express device. The unit is byte.

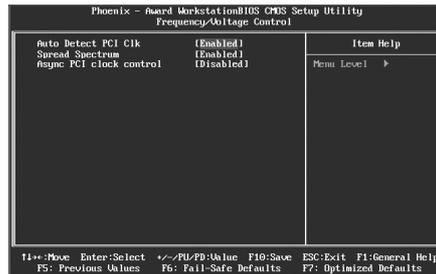
PC Health Status



PC Health Status Menu

- ❖ **Case Opened Warning**
This option is used to enable or disable case open warning function.
- ❖ **Shutdown Temperature**
This option is used to set the system temperature upper limit. When the temperature exceeds the setting value, the motherboard will automatically cut off power to the computer.
- ❖ **Warning temperature**
This option is used to set the system Warning temperature. After the temperature exceeds the setting value, the motherboard will give off warning.
- ❖ **CPU Vcore, +3.3V/+5V/+12V, CPU Temp, System Temperature, CPU FAN Speed, System FAN Speed**
These items display the current status of all of the monitored hardware device/components such as CPU voltage, temperatures and all fan's speeds.
- ❖ **Smart Fan Control**
This option is used to set whether the smart fan is enabled.
- ❖ **PWM Start Temp (°C)**
This option is used to set the minimum PWM value of the smart fan.
- ❖ **Start PWM Value (0~127)**
This option is used to set the Start PWM Value of the smart fan.
- ❖ **Slope PWM Value**
This option is used to set the Slope PWM Value of the smart fan.
- ❖ **Delta Temp (°C)**
This option is used to set the Delta Temp of the smart fan.

Frequency/Voltage Control



Frequency/Voltage Control Menu

❖ Auto Detect PCI Clk

This option is used to set whether the clock of an unused PCI slot will be disabled to reduce electromagnetic interference.

❖ Spread Spectrum

If you enable spread spectrum, it can significantly reduce the EMI (ElectroMagnetic Interference) generated by the system.

❖ Async PCI clock control

This option is used to enable or disable Async PCI clock.

Load Fail-Safe Defaults

Select this option to press <Enter>, it will pop out a dialogue box to allow you to load default set by BIOS. Select <Y> and then press Enter to load default. Select <N> and press <Enter>, it will not load. The defaults set by BIOS have set the basic functions of system in order to ensure the stability of system. But if your computer fails to properly run, you may load the default to make the system recover normal, then carry out failure testing in next step. If you only want to load the default in an option, you can select this option and press the key <F6>.

Load Optimized Defaults

Select this option and press Enter, it will pop out a dialogue box to let you load the optimized defaults set by BIOS. Select <Y> and then press <Enter> to load the optimized defaults. Select <N> and press <Enter>, it will not load. The defaults set by BIOS have set the optimized performance parameters of system to improve the performances of system components. But if the optimized performance parameters to be set cannot be supported by your hardware devices, it will cause system to make mistakes or not stable. If you only want to load the optimized defaults in an option, you can select this option and press the key <F7>.

Set Supervisor/User Password

The preferential grade of supervisor password is higher than user password. You can use supervisor password to start into system or enter into CMOS setting program to amend the settings. You can also use user password to start into system, or enter into CMOS setting menu to check, but if you have set supervisor password, you cannot amend the settings.

When you select Set Supervisor / User Password, it will appear the following message in the center of screen, which will help you to set password.

Enter Password:

Enter your password, not exceeding 8 characters, then press <Enter>, the password you have entered now will replace the previous password. When the system requires you to determine this password, you can enter this password and press <Enter>.

If you do not need this setting, you can press <Enter> when the screen prompts you to enter password, and the screen will appear the following message to show this function invalid. In this case, you can freely enter into system and CMOS setting program.

PASSWORD DISABLED!!!
Press any key to continue...

Chapter 3 BIOS Description

Under the menu “Advanced BIOS Features Setup”, if you select “System” in Security Option, the screen will prompt you to enter password once the system is started or you want to enter CMOS setting program. If the password is wrong, it will refuse you to continue.

Under the menu “Advanced BIOS Features Setup”, if you select “Setup” in Security Option, the screen will prompt you to enter password only when you enter CMOS setting program.

Save & Exit Setup

Select this option and press <Enter>, it will show the following message in the center of screen:

SAVE to CMOS and EXIT (Y/N)? Y

At this time, press <Y> to save your amendment in CMOS and exit from this program; press <N>/<ESC> to return main menu.

Exit Without Saving

Select this option and press <Enter>, it will show the following message in the center of screen:

Quit Without Saving (Y/N)? Y

At this time, press <Y> to exit CMOS but it does not save your amendment in CMOS; press <N>/<ESC> to return main menu.

Chapter 4

The utility CD that comes with the motherboard contains useful software and several utility drivers that enhance the motherboard features.

This chapter includes the following information:

- ❖ Utility CD content
- ❖ Start to install drivers

Chapter 4 Driver CD Introduction

Utility CD content

This motherboard comes with one Utility CD. To begin using the CD, simply insert the CD into your CD-ROM driver. The CD will automatically display the main menu screen.

1. Install Driver

Using this option to install all the drivers for your motherboard. You should install the drivers sequentially, from first to last.

- A. SiS Chipset Driver
- B. Realtek HDA Audio Driver
- C. Realtek LAN Driver
- D. SiS VGA Driver
- E. SiS RAID Driver
- F. AMD AwayMode

2. Accessories

Using this option to install additional software programs.

- A. TIGER ONE
- B. FOX LiveUpdate
- C. Microsoft DirectX 9.0
- D. Adobe Acrobat Reader
- E. Nonton Internet Security
- F. Create RAID Driver Floppy

3. Click on static WinFast logo to visit our homepage.

Chapter 4 Driver CD Introduction

Installing Drivers

There are two ways to install drivers, manual or auto. Click the driver that you want to install and begin the steps by manual. Or you just click "One Click Setup" button to install the driver by auto after install SiS Chipset Driver.



Installing Utilities

You can select the utilities that you want to install and begin the setup steps.



Chapter 5

This chapter will introduce how to use attached software.

This chapter provides the following information:

- ❖ TIGER ONE
- ❖ Fox LiveUpdate

TIGER ONE

TIGER ONE is a powerful utility for easily modifying system settings. It also allows users to monitor various temperature values, voltage values, frequency and fan speed at any time.

With TIGER ONE, you can

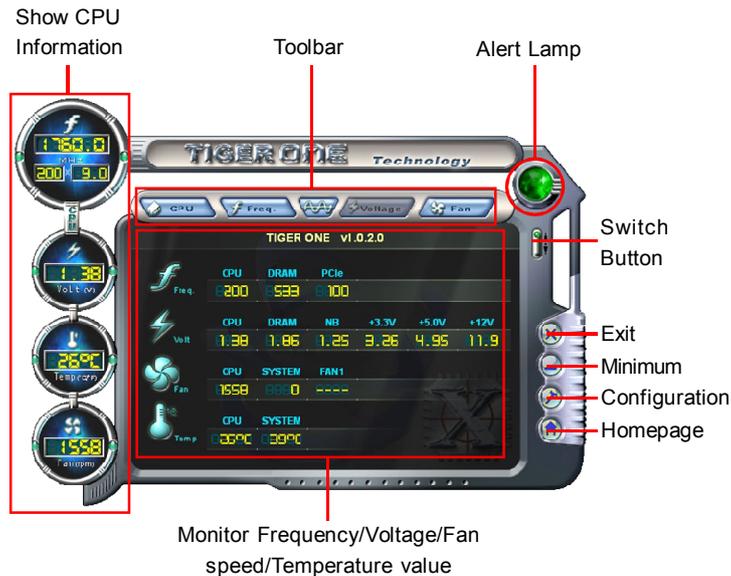
- Modify system performance settings, such as bus speeds, CPU voltages, fan speed, and other system performance options that are supported by the BIOS
- Monitor hardware temperature, voltage, frequency and fan speed

Supported Operating Systems:

- Windows 2000
- Windows XP
- Windows 2003

Using TIGER ONE:

1. Main Page



Chapter 5 *Directions for Bundled Software*

Toolbar

Use the toolbar to navigate to other pages.

Alert Lamp

When the system is in healthy status, the alert lamp color is green. When the system is in abnormal status, the alert lamp color is red.

Switch Button

Click this button, it will shorten to below figure. It helps you to monitor your system healthy status at any time.



Exit

Click this button to exit the program.

Minimum

Click this button to minimize the window.

Configuration

Click this button to configure the parameters for the program. It determines which items will be shown in shorten mode.

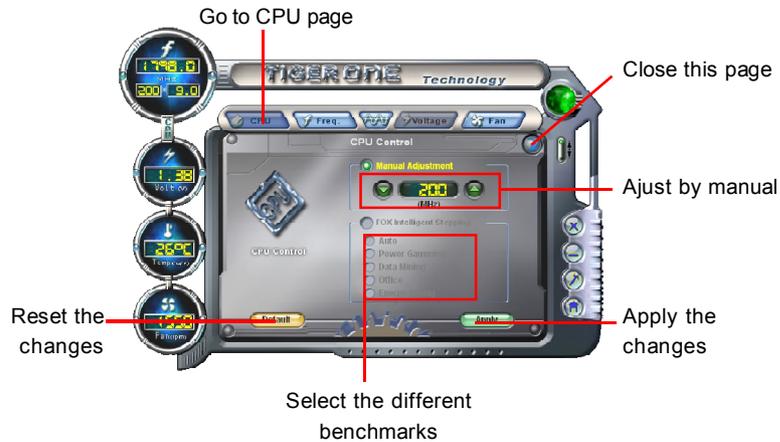
Homepage

Click this button to visit Foxconn motherboard website.

2. CPU Page - CPU Control

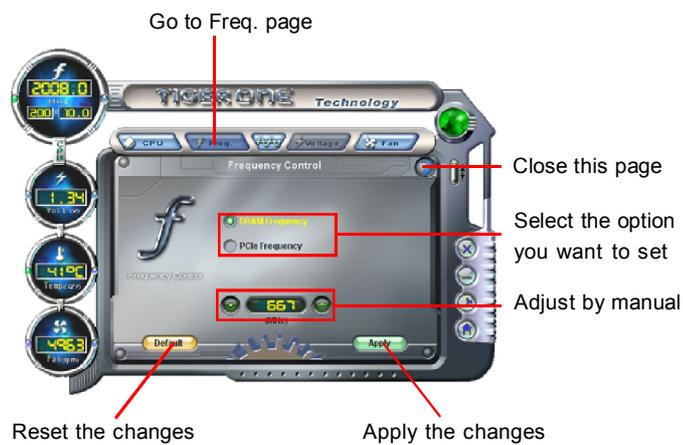
This page lets you select and run the TIGER ONE developed benchmarks to determine the current performance level of the system. You can also adjust by manual. Only this page is set to Manual Adjustment, the Freq., Voltage, and Fan pages can be adjusted by manual.

Chapter 5 Directions for Bundled Software



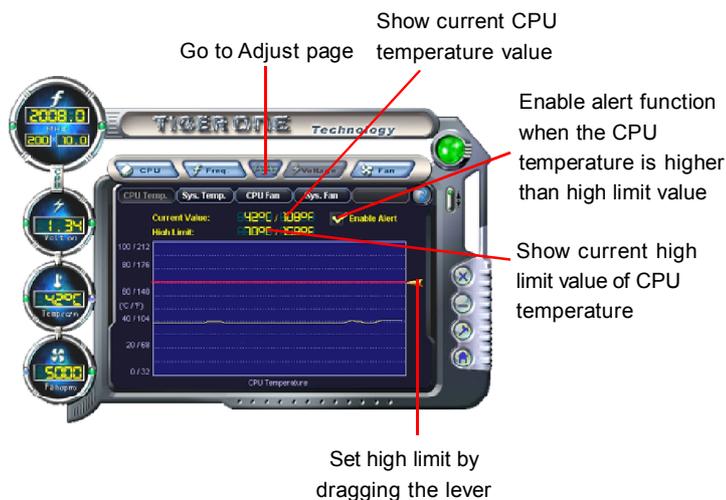
3. Freq. Page - Frequency Control

This page lets you set memory and PCI Express frequency by manual.



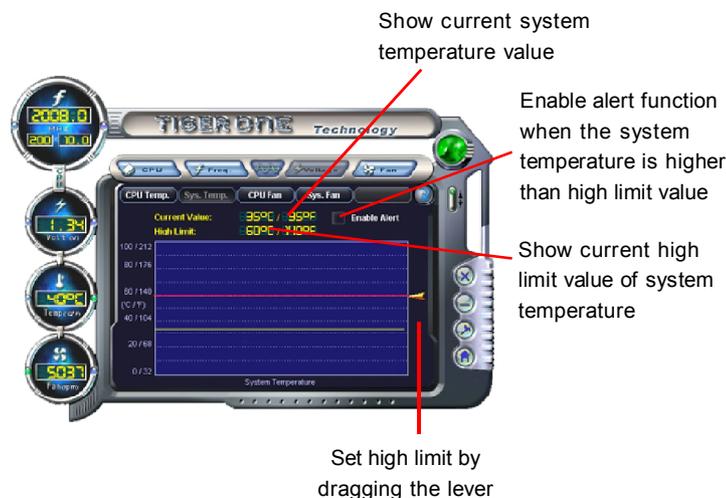
4.1 Limit Setting - CPU Temp.

This page lets you to set CPU high limit temperature and enable the alert function.



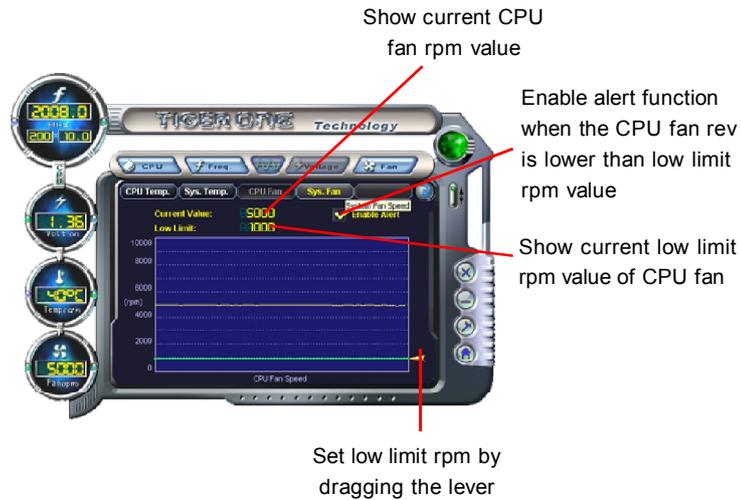
4.2 Limit Setting - Sys Temp.

This page lets you to set system high limit temperature and enable the alert function.



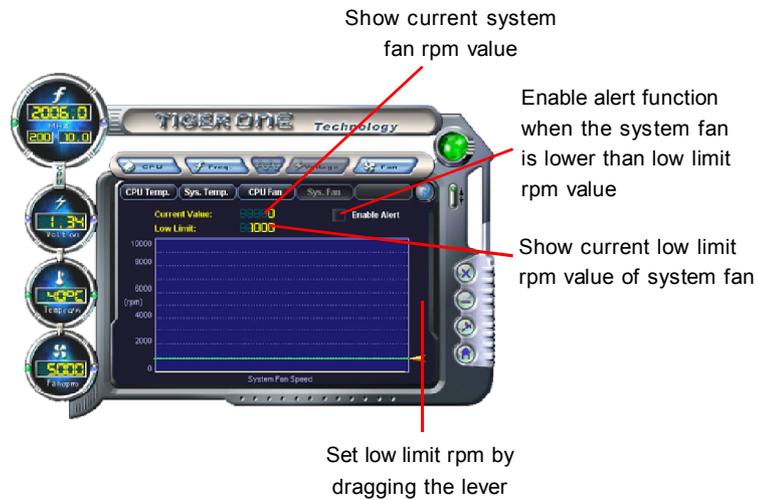
4.3 Limit Setting - CPU Fan

This page lets you to set CPU fan low limit rpm and enable the alert function.



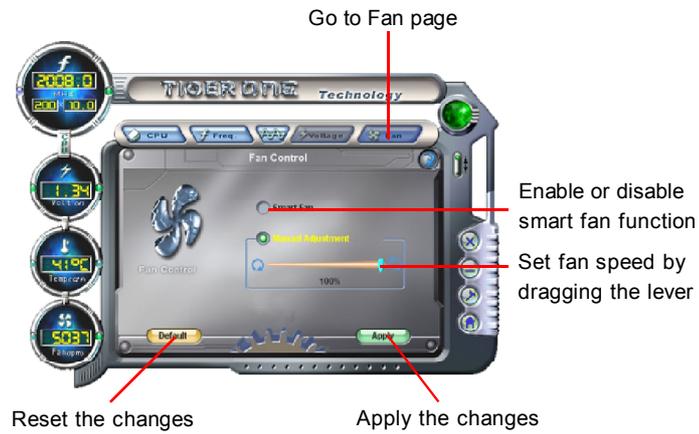
4.4 Limit Setting - Sys Fan

This page lets you to set system low limit rpm and enable the alert function.



5. Fan Page - Fan Control

This page lets you enable smart Fan function or set fan speed by manual.



Fox LiveUpdate

Fox LiveUpdate is a useful utility for backuping and updating the system BIOS, drivers and utilities by local or online.

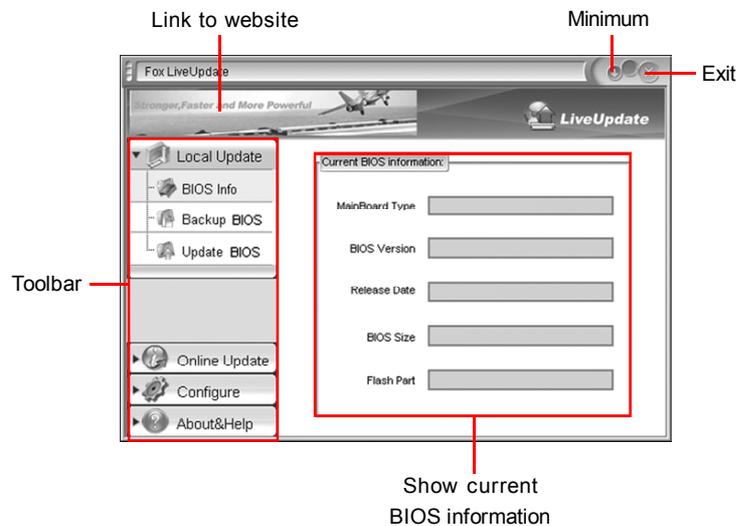
Supported Operating Systems:

- Windows 2000
- Windows XP (32-bit and 64-bit)
- Windows 2003 (32-bit and 64-bit)

Using Fox LiveUpdate:

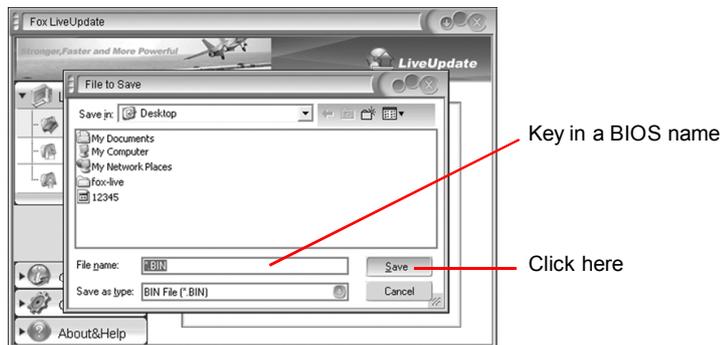
1.1 Local Update - BIOS Info.

This page lets you know your system BIOS information.



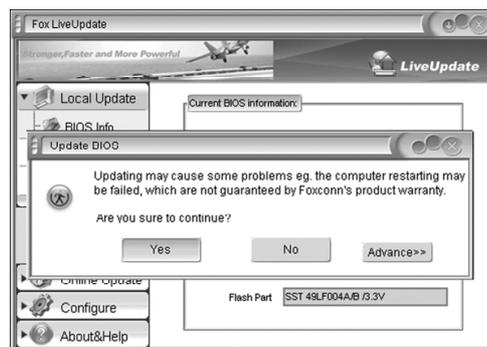
1.2 Local Update - Backup

This page lets you backup your system BIOS. Click “Backup”, then give a name. Click “Save” to finish the backup operation.



1.3 Local Update - Update

This page lets you update your system BIOS from Internet. After click “Update”, there will show warning message, please read it carefully. If you still want to continue, click “Yes”. Then load a local BIOS file and follow the wizard to finish the operation.

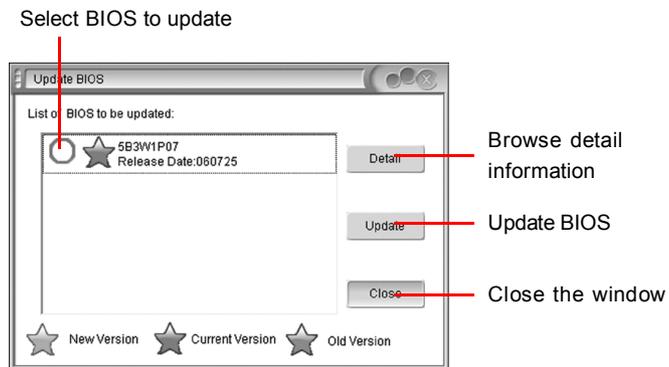
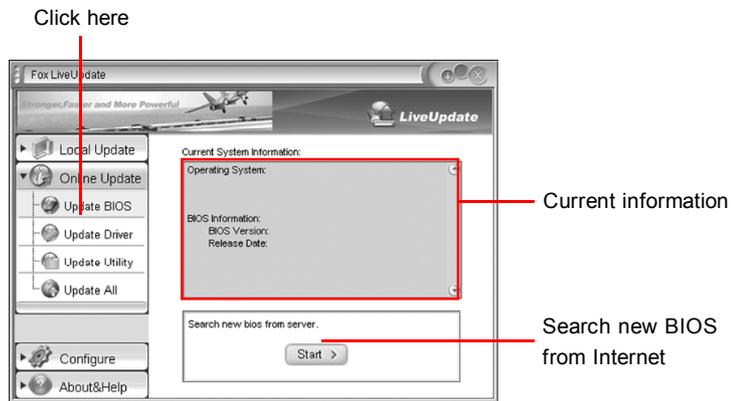


Note:

Fox LiveUpdate will auto backup BIOS before update because we have enabled this function in Configure option.

2.1 Online Update - Update BIOS

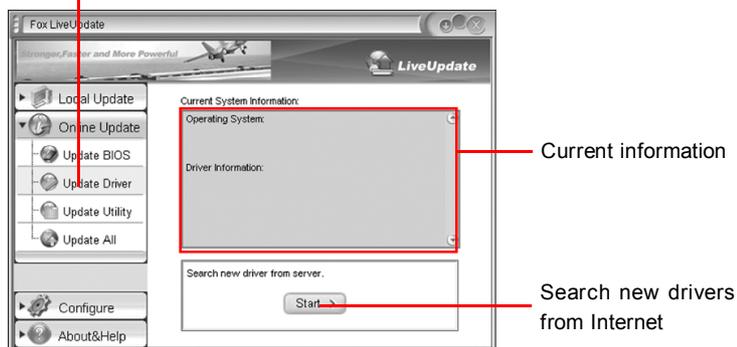
This page lets you update your system BIOS from Internet. Click “start”, it will search the new BIOS from Internet. Then follow the wizard to finish the update operation.



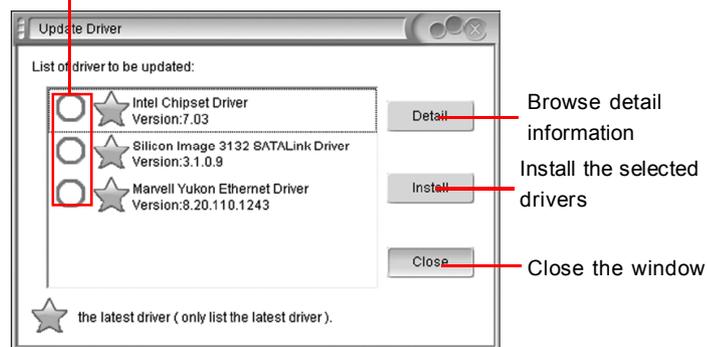
2.2 Online Update - Update Driver

This page lets you update your system drivers from Internet. Click “start”, it will search the new drivers from Internet. Then follow the wizard to finish the update operation.

Click here

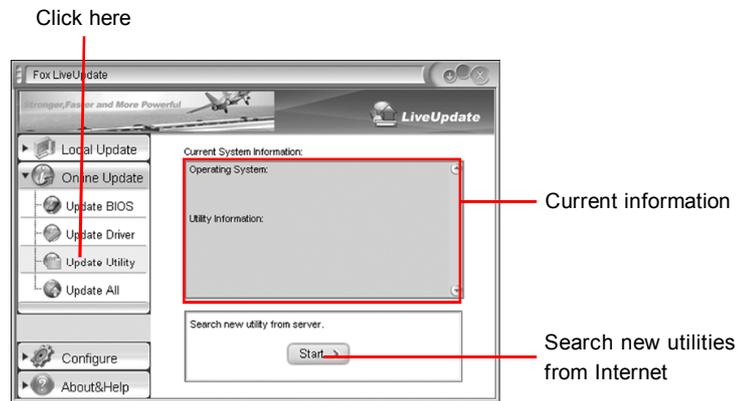


Select the drivers to update



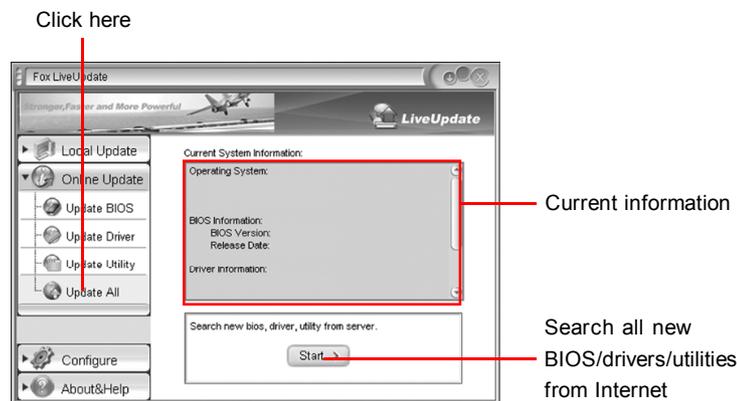
2.3 Online Update - Update Utility

This page lets you update utilities from Internet. Click “start”, it will search the new utilities from Internet. Then follow the wizard to finish the update operation.



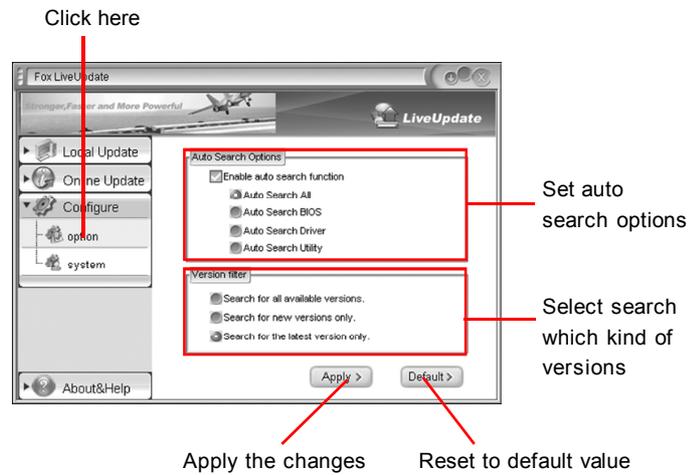
2.4 Online Update - Update All

This page lets you update your system drivers from Internet. Click “start”, it will search all new BIOS/drivers/utilities from Internet. Then follow the wizard to finish the update operation.



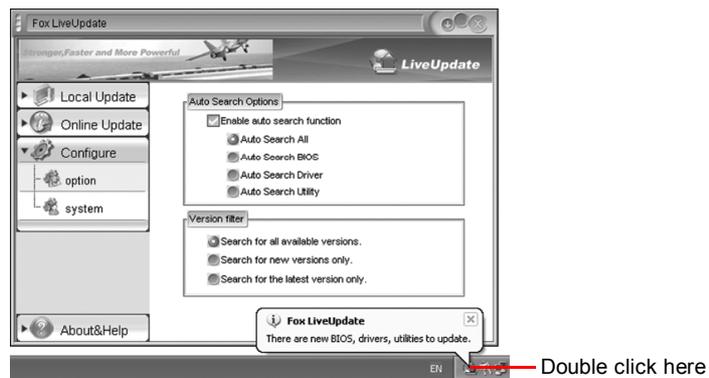
3.1 Configure - option

This page lets you set auto search options. After your setting, the utility will start searching and related information will show on the task bar.



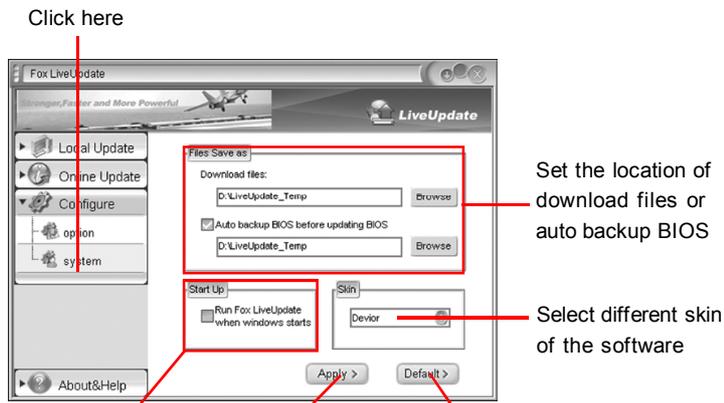
Note:

When enable auto search function, Fox LiveUpdate will appear searching result on task-bar. Double click the icon, you can see the detail information.



3.2 Configure - System

This page lets you set the backup BIOS location and change different skin of the utility.



Determine if the Fox LiveUpdate Apply the changes Reset to default value
can auto run when the system starts up

4. About & Help

This page shows some information about Fox LiveUpdate.

