Statement:

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Trademark:

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Version:

User's Manual V1.0 for 6100M2MA series motherboard.

Symbol description:

- Note: refers to important information that can help you to use motherboard better.
- **1 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 the following 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 6100M2MA

is in conformity with

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

☑ EN 55022/A1: 2000 Limits and methods of measurements of radio disturbance

characteristics of information technology equipment

☑ EN 61000-3-2/A14:2000 Electromagnetic compatibility (EMC)

Part 3: Limits

Section 2: Limits for harmonic current emissions (equipment input current <= 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 <= 16A

☑ EN 55024/A1:2001 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: 6100M2MA

Responsible Party: PCE Industry Inc. Address:

458 E. Lambert Rd.

Fullerton, CA 92835

Telephone: 714-738-8868 714-738-8838 Facsimile:

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.

Date:

2006

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1 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.

1 Attention:

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

1 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.

1 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 6100M2MAseries. Each motherboard is carefully designed for the PC user who wants diverse features.

- -L with onboard 10/100M LAN(Default is elliptical)
- -K with onboard Gigabit LAN
- -6 with 6-channel audio(Default is elliptical)
- -8 with 8-channel audio
- -E with 1394 Connector
- -S with SATA Connector
- -R with RAID function
- -2 with DDR2 function

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

For example:



On the black mark of the PPID label, it means the motherboard supports 6-Channel Audio (-6), 1394 port (-E), onboard 100M LAN (-L), SATA function (-S).

Chapter 1

Thank you for buying WinFast 6100M2MA 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 NVIDIA [®] GeForce[™] 6100+ nForce[™] 430/410 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:

• mATX form factor of 9.6" x 9.6"

Microprocessor:

- Supports AMD socket AM2 for Sempron[™], Athlon[™] 64, Athlon[™] 64 FX, Athlon[™]
 64 x2 Dual-Core processors
- Supports HyperTransport[™] Technology

Chipset:

NVIDIA®: GeForce™ 6100+ nForce™ 430/410

System Memory

- Four 240-pin DDR2 Dual channel DIMM slots
- Supports DDR2 800/667/533 memory
- Supports 128/256/512/1024 Mb technology up to 4GB

USB 2.0 Port

- · Supports hot-plug
- Eight USB 2.0 ports (four rear panel ports, two onboard USB headers providing four extra ports)
- Supports USB 2.0 protocol up to 480Mbps transmission rate

Onboard Serial ATA II

- Compliant with the Serial ATA II specification
- 300MBps transfer rate
- nForce 410 support two Serial ATA II devices
- nFurce 430 support four Serial ATA II devices

NVIDIA® RAID Technology

- Supports RAID 0, RAID 1(supported on nFoure 410)
- Supports RAID 0, RAID 1, RAID 0+1, and RAID 5(supported on nFoure 430)

Onboard 1394(optional)

- Supports hot-plug
- Two 1394 ports with rate of transmission at 400Mbps
- · Self-configured addressing

Onboard LAN (-L/-K)

- Supports10/100/1000(-K) Mbps Ethernet
- · LAN interface built-in on board

Onboard Audio (-6) (optional)

- AC' 97 2.3 Specification Compliant
- Supports S/PDIF output
- Onboard Line-in jack, Line-out jack, Microphone jack
- Supports 6-channel audio (setting via software)

Onboard Audio (-8) (optional)

- Supports Intel High Definition Audio
- Supports S/PDIF output
- Supports high quality differential CD input
- Supports 8-channel audio

Onboard Graphics

• Supports integrated VGA display functions

BIOS

- Licensed advanced AWARD (Phoenix) BIOS, supports flash ROM, Plug-and-Play
- Supports IDE HDD, Floppy, CD-ROM, SCSI HDD or USB device boot up

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) ACPI state

Expansion Slots

- Two PCI slots
- One PCI Express x16 Graphics slot
- One PCI Express x1 Graphics slot

PCI Express x16 graphics support

- Supports 4GB/sec(8 GB/sec concurrent) bandwidth
- Low power consumption and power management features

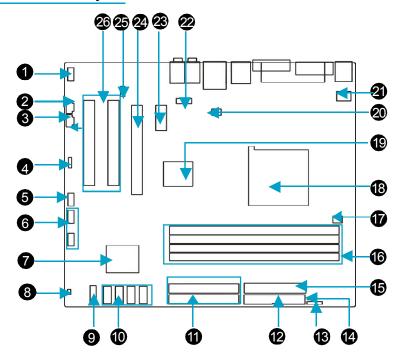
PCI Express x1 Support

- Supports 250 MB/sec (500 MB/sec concurrent) bandwidth
- Low power consumption and power management features

Advanced Features

- PCI 2.3 Specification Compliant
- Supports PC Health function (capable of monitoring system voltage, CPU/ system temperature, and fan speed)

Motherboard Layout



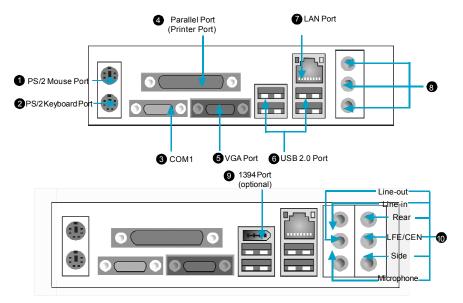
- 1. Front Audio Connector
- 2. CD IN Connector
- 3. AUX_IN Connector (optional)
- 4. Speaker Connector(optional)
- 5. Front 1394 Connector (optional)
- 6. Front USB Connectors
- 7. NVIDIA® nForce™ 410/430
- 8. Chassis Intruder Connector
- 9. Front Panel Connector
- 10.SATA II Connectors(optional)
- 11.IDE Connectors
- 12. Floppy Disk Connector
- 13. IrDA Connector

- 14.Clear CMOS Jumper
- 15.ATX Power Connector
- 16. DDR2 DIMM Slots
- 17. CPU Fan Connector
- 18. CPU Socket
- 19. NVIDIA® GeForceTM 6100
- 20.System FAN Connector
- 21. 12V ATX Power Connector
- 22. COM2 Connector
- 23. PCI Express x1 slot
- 24. PCI Express x16 slot
- 25. S/PDIF Out Connector
- 26. PCI slots

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:



8 Line-in jack, Line-out jack, Microphone jack(for -6 models)

When using a two-channel sound source, the Line-out jack is used to connect to speaker or headphone; the Line-in port 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 sound speaker to the blue audio input; connect the center speaker/subwoofer to the red Microphone input.

●Line in, Line out, Microphone, Rear, LEF/CEN, Side Jacks (for -8 models) When using an 8-channel sound source, connect the front speaker to the green audio output; connect the rear sound speaker to the black audio output; connect the center speaker/subwoofer to the orange audio output; connect the Side sound 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

Notes:

Take note of the following precautions before you install components or change settings.

- Use a grounded wrist strap or touch a safely grounded object, such as an attached power supply, before handling components to avoid damaging them due to static electricity.
- 2. Unplug the power cord before opening your chassis or touching any components.
- 3. Hold components by their edges to avoid touching any exposed integrated circuits (ICs).
- 4. Whenever you uninstall a component, place it on a grounded antistatic pad or into the anti-static bag that it came in.

CPU

This motherboard supports AMD socket AM2 for Sempron[™], Athlon[™] 64, Athlon[™] 64 FX, Athlon[™] 64 x2 Dual-Core processors and HyperTransport[™] Technology.

1 Attention:

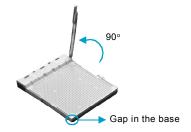
The CPU pins must be properly aligned with the holes in the socket, otherwise the CPU may be damaged.

For the detailed CPU vendor list qualified on this motherboard, please visit the website: http://www.foxconnchannel.com

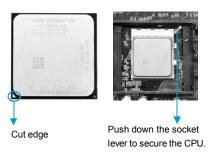
Installation of CPU

Follow these steps to install the CPU.

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



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.

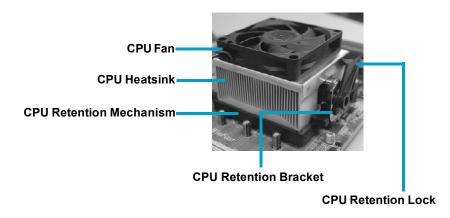


 When the CPU is in place, press it firmly on the socket while you push down the socket lever to secure the CPU. The lever clicks on the side tab to indicate that it is locked.



Installation of CPU Fan

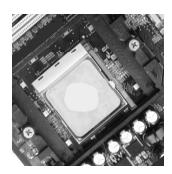
New technology allows processors to run at higher and higher frequencies. To avoid problems arising from high-speed operation, for example, overheating, you need to install the proper fan. The following procedure is provided for reference only, please refer to your CPU fan user guide for the actual procedure.



1.Locate the CPU retention mechanism base (surrounds the CPU socket) (If the rentention mechanism not be installed).

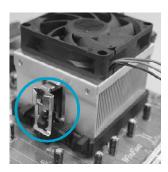


2. If required, apply a light coating of silica gel to the top of the CPU.



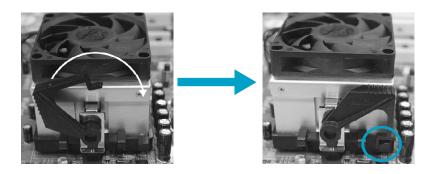
NOTE: The CPU heatsink may have a pre-applied thermal compound. In that case, the silica gel is not required.

- 3. Place the cooling set onto the retention mechanism. Attach one end of the retention bracket to retention mechanism.
- 4. Align the other end of the retention bracket to fasten the cooling set on the top of the retention mechanism.



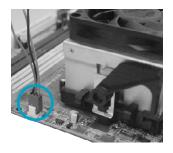


5. Push down the retention bracket lock on the retention mechanism to secure the heatsink and fan to module base.



Chapter 2 Installation Instructions

6. Connect the fan's power cable to the appropriate 3-pin terminal on the motherboard.



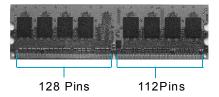
Memory

This motherboard includes four 240-pin slots with 533/667/800 MHz Dual Channel DDR2 DRAM interface. You must install at least one menory module to ensure normal operation.

For the lastest memory modules support list, please visit the website: http://www.foxconnchannel.com

Installation of DDR2 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.



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.

Chapter 2 Installation Instructions

Recommended Memory Configurations

The following table list is the recommended memory configurations. Please install the memory according to the list.

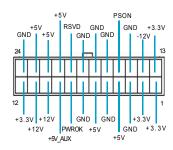
Mode	DIMMA0	DIMMB0	DIMMA1	DIMMB1
	Populated			
Signal-channel	<u>. </u>		Populated	_
	Populated		Populated	
	Populated	Populated		
Dual-channel			Populated	Populated
	Populated	Populated	Populated	Populated

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 Power Connector: PWR1

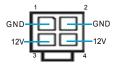
PWR1 is the ATX power supply connector. Make sure that the power supply cable and pins are properly aligned with the connector on the motherboard. Firmly plug the power supply cable into the connector and make sure it is secure.



ATX 12V Power Connector: PWR2

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





1 Attention:

We strongly 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.



Other Connectors

This motherboard includes interfaces for FLOPPY, IDE devices, SATA Ildevices, USB devices, 1394 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.

HDD connectors: PIDE & SIDE

These connectors support the UltraDMA 133/100/66 IDE hard disk ribbon cable. Connect the cable's blue connector to the primary (recommended) or secondary IDE connector, then connect the gray connector to the UltraDMA 133/100/66/33 slave device (hard disk drive) and the black connector to the UltraDMA 133/100/66/33 master device. If you install two hard disks, you must configure the second drive as a slave device by setting its jumper accordingly. Refer to the hard disk documentation for the jumper settings.

Attention:

Ribbon cables are directional, therefore, make sure to always connect with the cable on the same side as pin 1 of the PIDE/SIDE or FLOPPY connector on the motherboard.

Front Panel Connector: FP

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



Hard Disk LED Connector (HDD_LED)

Attach the connector to the HDD_LED on the front panel of the case; the LED will flash while the HDD is in operation.

Reset Switch (RESET)

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

Power LED Connector (PLED)

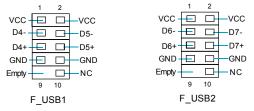
Attach the connector to the Power LED on the front panel of the case. The Power LED indicates the power supply status. When the system is in S0 status, the LED is on. When the system is in S1 status, the LED is blink. When the system is in S3, S4, S5 status, the LED is off.

Power Switch Connector (PWRBTN#)

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

USB Connectors: F_USB 1, F_USB 2

Besides four USB ports on the rear panel, the series of motherboards also have two 10-pin headers on board which may connect to the front panel USB cable to provide additional four USB ports.



Fan Connectors: CPU_FAN, SYS_FAN

The fan speed of CPU_FAN and SYS_FAN can be detected and viewed in "PC Health" section of the CMOS SETUP. These fans will be automatically turned off after the system enters suspend mode.



AUX_R

GND

AUX_IN

+5V Empty

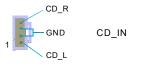
IRRX

GND

IRTX

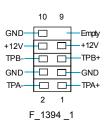
Audio Connectors: CD_IN, AUX_IN(optional)

CD_IN, AUX_IN is Sony standard CD audio connectors, to receive audio input from the CD-ROM, attach its audio connector to the CD_IN/AUX_IN audio connectors on the motherboard.



IrDA Connector: 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.



IR

1394 Connector(optional): F_1394_1(optional)

The 1394 expansion cable can be connected to either the front (provided that the front panel of your chassis is equipped with the appropriate interface) or the rear panel of the chassis.

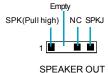
Serial ATA II Connectors: SATA_1, SATA_2, SATA_3(optional), SATA_4(optional)

The Serial ATA II connectors are used to connect the SATA II devices to the motherboard. These connectors support the thin Serial ATA cables for primary internal storage devices. The current SATA interface allows up to 300MB/s data transfer rate.



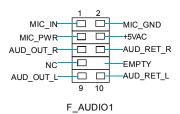
Speaker Connector: SPEAKER OUT (optional)

The speaker connector is used to connect speaker of the chassis.



Front Audio Connector: F_AUDIO1 (for -6 models)

The audio port includes two parts – the Front Audio and 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.



For -8 models (optional)

The audio connector provides two kinds of PORT1_R: PORT2_R: audio output choices: the Front Audio, the SENSE_SEND: Rear Audio. Front Audio supports re-tasking PORT2_L function. Their priority is the same.



F_AUDIO1

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. Please set the reference items in BIOS and save the setting.



S/PDIF Out Connector: SPDIF_01

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

Note: The empty pin of SPDIF cable should be aligned to empty pin of S/PDIF out connector.

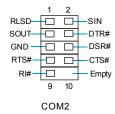


SPDIF_01

Chapter 2 Installation Instructions

Addtional COM Connector: COM2

This motherboard provides an additional serial COM connector for your machine. Connect one side of a switching cable to the connector, then attach the serial COM device to the other side of the cable.



Expansion Slots

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

PCI Slots

The expansion cards can be installed in the two PCI slots. When you install or remove such cards, please make sure that the power plug has been unplugged from the power supply. Please read carefully the instructions provided for such cards, then 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 notable to be sure, with the x16 slot pushing 4GB/sec (8GB/sec concurrent) of bandwidth, and the x1 PCI Express slot offering 250 MB/sec.



Note:

If a performance graphics card was installed into x16 PCI Express slot, 2X12 pin power supply was strongly recommended.

Chapter 2 Installation Instructions

Installing an expansion card

- Before installing the expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation that came with it and make the necessary hardware settings for the card
- 2. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.
- 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.

Jumpers

Users can change the jumper settings on this motherboard if necessary. 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

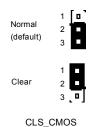
- 1. For the jumpers on this motherboard, pin 1 can be identified by the silk-screen printed " Δ " next to it. However, in this manual, pin 1 is simply labeled as "1".
- 2. The following table provides some explanations of the jumper pin settings. Users should refer to the table while adjusting jumper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

Jumper	Diagram	Definition	Description
	1	1-2	Set pin 1 and pin 2 closed
1[]	1 🗆 🗖 🗖	2-3	Set pin 2 and pin 3 closed
1 0 0	100	Closed	Set the pin closed
	100	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.

- Turn off the AC power supply and short pins 1 and 2 on the jumper.
- 2. Return the jumper to the normal setting (locking pins 2 and 3 together with the jumper cap).
- 3. Turn on the system. The BIOS is returned to the default settings.



Warning:

- 1. Disconnect the power cable before adjusting the jumper settings.
- 2. DO NOT clear the CMOS while the system is turned on.

Starting up for the first time

- 1. After making all the connections, replace the system case cover.
- 2. Make sure that all switches are turned off.
- 3. Turn on the devices in the following order.
 - a. Monitor
 - b. External SCSI devices (starting with the last device on the chain)
 - c. System power
- 4. After powering on, LED on the system front panel case lights up. For ATX power supplies, the system LED lights up when you press the ATX power switch. If your monitor complies with green standards or if it has a power standby feature, the monitor LED may light up or switch between orange and green after the system LED turns on. The system then enters the Power-On Self Test (POST) routines. While the tests are running, the BIOS beeps or additional messages appear on the screen. If you do not see anything within 30 seconds from the time you turned on the power, the system may have failed a power-on test. Check the jumper settings and connections or call your retailer for assistance.
- 5. After the POST routines are completed, press the key to access the BIOS Setup Utility. For detailed instructions, please refer to Chapter 3.

Powering off the computer

- Using the OS shut down function
 If you use windows 98/ME/2000/XP, click Start and select Shut Down, then
 click the OK button to shut down the computer. The power supply should
 turn off after Windows shuts down.
- 2. Using the dual function power switch While the system is ON, pressing the power switch for less than 4 seconds puts the system in sleep mode or soft-off mode, depending on the BIOS setting. Pressing the power switch for more than 4 seconds lets the system enter the soft-off mode regardless of the BIOS setting.

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:

- 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
- 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 the key to enter the Award BIOS CMOS Setup Utility.

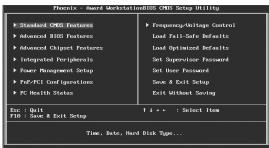
Press TAB to show POST screen, DEL to enter SETUP, ESC to enter Boot Menu



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

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 throughthis 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> key 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.
vear	vear, 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

These categories identify the HDD types of 2 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 device is installed or set; "Auto" indicates the system can automatically detect and configure the hard disk when booting up; If it fails to find a device, choose "Manual" and change Access Mode to "CHS", then manually configure the drive by entering the characteristics of the drive directly from the keyboard and pressing <Enter>:

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

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

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].

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.
	i i

Memory

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

Base Memory	The BIOS POST will determine the amount of base
	(or conventional) memory installed in the system.
Extended Memory	The BIOS determines how much extended
	memory is present during the POST.
Total Memory	Total memory of the system.

Advanced BIOS Features



Advanced BIOS Features Menu

❖Removable Device Priority

This option is used to remove the priority for removable device startup. After pressing <Enter>, you can remove the removable device using the <PageUp>/ <PageDn> or Up/ Down arrow keys, and change the removable device priority using <+> or <->. To exit this option, press <Esc>.

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 <->. To exit this option, press <Esc>.

❖CD-ROM Boot Priority

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

❖Network Boot Priority

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

❖Virus Warning

This option is used to set up the virus warning message for the IDE HDD boot sector. When enabled, a warning message will appear on the screen if any program intends to write information to the boot sector.

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

❖CPU Internal Cache

This option is used to turn on or off the CPU L1 and L2 cache.

External Cache

This option is used to turn on or off the CPU external cache. The available setting values are: Disabled and Enabled. 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. The available setting values are: Floppy, LS120, Hard Disk, CDROM, ZIP100, USB-FDD, USB-ZIP, USB-CDROM, Legacy LAN, NVIDIA Boot Age and Disabled.

❖Boot Other Device

With this item enabled, the system will search all other possible locations if it fails to find one in the devices specified under the first, second and third boot devices.

❖ Boot Up Floppy Seek

If this option is enabled, BIOS will activate the floppy drive during the system boot and the drive's indicator will flash after the activation. The magnetic head will move back and forth from A to B.

Boot Up NumLock Status

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

❖Typematic Rate Setting

If this option 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 option to define how many characters per second a held-down keygenerated.

❖Typematic Delay (Msec)

Use this option 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 start up your PC.

***APIC Mode**

This option is used to enable or disable APIC mode.

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 option 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 option at the default.

❖ Full Screen LOGO Show

This option allows you to enable or disable the full screen logo.

Small Logo (EPA) Show

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

Advanced Chipset Features



Advanced Chipset Features Menu

❖Frame Buffer Size

This item is used to set the VGA frame buffer size.

Note: This function does not work when the external display card is used.

♦K8<->NB/NB-->SB/NB<--SB HT Speed

These options are used to set the bandspeed of the link's transmitter of K8 <->NB/NB-->SB/NB<--SB.

♦K8<->NB/NB<->SB HT Width

These options are used to set the bandwidth of the link's transmitter of K8 <->NB/NB<->SB.

❖Err94 Enh

This option is used to set Err94 Enh.

DRAM Configuration

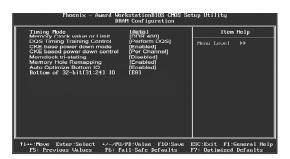
Press <Enter> to set the items about DRAM Configuration.

❖SSE/SSE2 Instructions

It is used to set enable or disable Intel SSE/SSE2 instructions.

❖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

❖Time Mode

This item is used to set timing mode.

❖Memory clock Value or Limit

This option is used to set memory clock value or limit.

❖DQS Timing Training Control

This option controls the DQS timing training .

❖CKE base Power down mode

This option is used to set the CKE base Power down mode.

❖CKE based Power down Control

This option controls the CKE based power down.

❖Memory hole Remapping

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

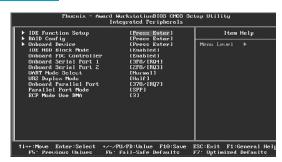
Auto Optimize Bottom IO

This item is used to set the auto optimize bottom IO.

❖Bottom of 32-bit [31:24] IO

This item is used to set Bottom of 32-bit [31:24] IO.

Integrated Peripherals



Integrated Peripherals Menu

❖IDE Function Setup

Press Enter to set the items about IDE Function.

*RAID Config

Press <Enter> to set the items of Raid configuration.

Onboard Device

Press <Enter> to set the items of onboard device.

❖IDE HDD Block Mode

This option is used to set whether the IDE HDD Block Mode is allowed. The available setting values are: Disabled and Enabled.

Onboad FDC Controller

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

❖Onboard Serial Port 1/2

This option is 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. The 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 (IR) function of the onboard infrared chip. The available setting values are: Half and Full.

❖Onboard Parallel Port

This option is used to assign the I/O address and interrupt request (IRQ) for onboard parallel port controller. The setting values include: Disabled, 378/IRQ7, 278/IRQ5 and 3BC/IRQ7.

❖Parallel Port Mode

Select an address and corresponding interrupt for the onboard parallel port. The setting values include SPP, EPP, ECP, ECP+EPP.

❖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.



IDE Function Menu

OnChip IDE Channel 0/1

This option is used to set the onchip IDE channel 0/1. The available setting are: Disabled and Enabled.

❖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 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. The available setting values are: Disabled and Auto.

❖IDE DMA transfer access

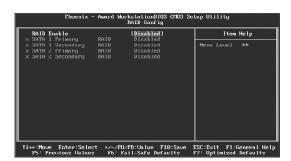
This option is used to enable or disable IDE DMA transfer access.

Serial-ATA Cotroller

This option is used to enable or disable Serial-ATA cotroller.

❖IDE Prefetch Mode

This option is used to enable or disable IDEprefetch mode.



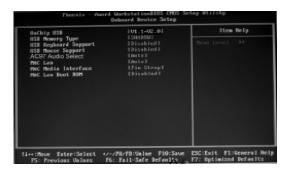
RAID Config Menu

* RAID Enable

This option is used to disable or enable the RAID function. When enabled, the following grayed items will be activated.

SATA 1/2 Primary/Secondary RAID

These feature allow users to enable or disable the RAID function for each SATA hard disk drive.



Onboard Device Setup

Onchip USB

This option is used to set whether the USB Controller is enabled.

USB Memory Type

This option is used to set the USB Memory type.

USB Keyboard Support

This option is used to set whether the USB keyboard controller is enabled in a legacy operating system (such as DOS). The available setting values are: Disabled and Enabled.

USB Mouse Support

This option is used to set whether the USB mouse controller is enabled in a legacy operating system (such as DOS). The available setting values are: Disabled and Enabled.

*AC97/HD Audio

This option is used to set whether onboard Azalia/AC97 Audio is enabled. The available setting values are: Disabled and Auto.

❖MAC LAN

This option is used to set whether MAC LAN device is enalbed.

❖MAC Media Interface

This option is used to set MAC Media Interface.

❖MAC LAN Boot ROM

This option is used to decide whether to invoke the boot ROM of the MAC LAN chip.

Power Management Setup



Power Management Setup Menu

ACPI function

ACPI stands for "Advanced Configuration and Power Interface". ACPI is a standard that defines power and configuration management interfaces between an operating system and the BIOS. In other words, it is a standard that describes how computer components work together to manage system hardware. In order to use this function the ACPI specification must be supported by the OS (for example, Windows2000 or WindowsXP).

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 will be cut off 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 the previous status when the STR function wakes. When you select "S1 & S3" mode, the system will automatically select the delay time.

❖ Power Management

This option is used to set the power management scheme. Available settings are: User Define, Min Saving and Max Saving.

❖ Video Off Method

This option is used to define the video off method. "Blank Screen" mode means that after the computer enters power saving mode, only the monitor will close, however, the vertical and horizontal scanning movement of the screen continues. When you select the "V/H SYNC + Blank" mode the vertical and horizontal scanning movement of screen stops when the computer enters power saving mode. "DPMS Supported" mode is a new screen power management system, and it needs to be supported by the monitor you're using.

HDD Power Down

This option is used to turn off hard disk power if the hard disk is idle for a given period of time. The setting values are Disabled and 1Min-15Min.

* HDD Down In Suspend

This option is used to define the continuous HDD idle time before the HDD enters power saving mode. The setting values are Disabled and Enabled.

❖Soft-Off by PBTN

This option is used to set the power down method.

❖WOL(PME#) From Soft-Off

When set to Enable, the feature allows your system to be awakened from the power saving modes through any event on PME (Power Management Event)

❖WOR(RI#) From Soft-Off

If this item is enabled, it allows the system to resume from a software power down or power saving mode whenever there is an incoming call to an installed fax/modem. This function needs to be supported by the relevant hardware and software.

Case Open Warning

This option is used to enable or disable case open warning function.

❖Power-On by Alarm

This option is used to enable or disable the feature of booting up the system on a scheduled time/date. The setting values are Disabled and Enabled.

❖ Date of Month Alarm

When the Power-On by Alarm set as "Enabled", this option will be modified. It is used to set the timing for the start-up date. The setting values contain 0 - 31.

❖Time (hh: mm: ss) Alarm

When the Power-On by Alarm set as "Enabled", this option will be modified. It is used to set the timing for the start-up date. The setting values contain hh: 0-23; mm: 0-59; ss: 0-59.

❖POWER ON Function

This option is used to set the POWER ON function.

*KB Power On Password

This item is used to set Keyboard Power On Password.

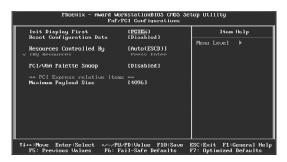
Hot Key Power On

This item is used to set Hot Key Power On.

❖ PWRON Ater PWR-Fail

This option is used to set the PWRON after PWR-Fail.

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 each time the machine is turned on. The setting values are: Disabled and Enabled.

❖ 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.

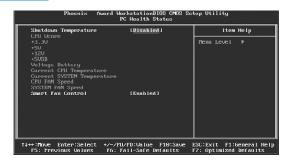
❖ PCI/VGA Palette Snoop

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

❖ Maximum Playload Size

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

PC Health Status



PC Health Status Menu

Shutdown Temperature

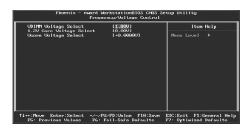
This option is used to set the system temperature upper limit. When the temperature exceeds the setting value, the motherboard will automatically cut off power to the computer.

CPU Vcore, +3.3V, +5V, +12V, +5VSB, Voltage Battery, Current CPU Temperature, Current SYS Temperature, CPU Fan Speed, System Fan Speed These items display the current status of all the monitored hardware device/ components such as CPU voltage, temperatures and all fan's speeds.

❖Smart Fan Control

This option is used to enable or disable smart fan function. The setting values are Disabled and Enabled.

Frequency/Voltage Control



Frequency/Voltage Control menu

❖VDIMM Voltage Select

This option is used to select the VDIMM voltage.

❖1.2V Core Voltage Select

This option is used to select the 1.2V Core voltage.

❖ Vcore Voltage Select

This option is used to select the Vcore voltage.

Load Fail-Safe Defaults

Select this option and press <Enter>, it will pop up a dialogue box to allow you to install fail-safe defaults for all appropriate items in the Setup Utility. Select <Y> and press <Enter> to load the defaults. Select <N> and press <Enter> to 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 work, 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 for a specific option, you can select this option and press the <F6> key.

Load Optimized Defaults

Select this option and press <Enter>, it will open a dialogue box that lets you install the optimized defaults for all appropriate items in the Setup Utility. Select <Y> and press <Enter> to load the optimized defaults. Select <N> and press <Enter> to not install. 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, you can cause fatal errors or instability. If you only want to load the optimized defaults for a specific option, you can select this option and press the <F7> key.

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 setting. 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 setting.

Highlight the item Set Supervisor / User Password on the main menu and press <Enter>. The following password dialog box appears:

Enter Password:

Enter your password, not exceeding 8 characters, then press <Enter>, you will be prompted to confirm the password, type in the password again and press <Enter>

If you are deleting a password that is already installed, just press <Enter> when the password dialog box appears, and the screen will show a message that indicates this password has been disabled. In this case, you can freely enter into system and CMOS setting program.

PASS WORD DISABLED!!!

Press any key to continue...

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>, the following message will appear on the screen:

SAVE to CMOS and EXIT (Y/N)?

Press <Y> to save the changes that you have made in the Setup Utility and exit the Setup Utility; press <N>/<ESC> to return to the main menu.

Exit Without Saving

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

Quit Without Saving (Y/N)?

Press <Y> to discard any changes that you have made in the Setup Utility and exit the Setup Utility; press <N>/<ESC> to return to the main menu.



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

This chapter includes the following information:

- Utility CD content
- Installing drivers
- Installing Utilities

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. NVIDIA Chipset Driver
- B. Realtek Audio Driver
- C. NVIDIA VGA Driver

2. Utility

Use this option to install additional software programs.

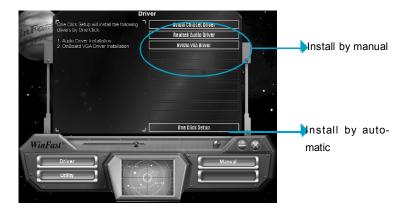
- A. TIGER ONE
- B. NVIDIA nTune
- C. Microsoft DirectX 9.0
- D. Adobe Acrobate Reader
- E. Norton Internet Security

3. Manual

Click to browse the content of manual.

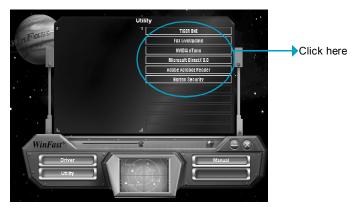
Start to install drivers

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



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

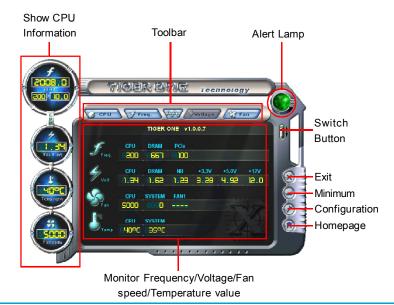
- -Modify system performance settings, such as bus speeds, CPU voltages, fan speed, and other system performance options that are supported by the BIOS
- -Monitor hardware temperature, voltage, frequency and fan speed

Supported Operating Systems:

- -Windows 2000
- -Windows XP (32-bit)

Using TIGER ONE:

1. Main Page



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 minitor your system healthy status at any time.



Exit

Click this button to exit the program.

Minimum

Click this button to minimize the window.

Configuration

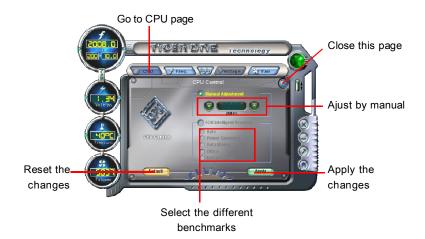
Click this button to configurate the parameters for the program. It determines which items will be shown in shorten mode.

Homepage

Click this button to visit Foxconn motherboard website.

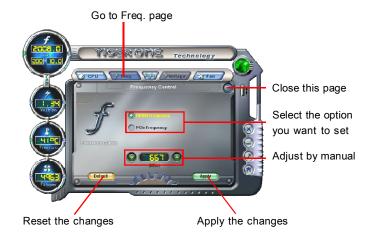
2. CPU Page - CPU Control

This page lets you select and run the Figer 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., Vlotage, and Fan pages can be adjusted by manual.



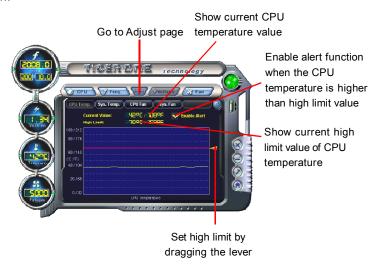
3. Freq. Page - Frequency Control

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



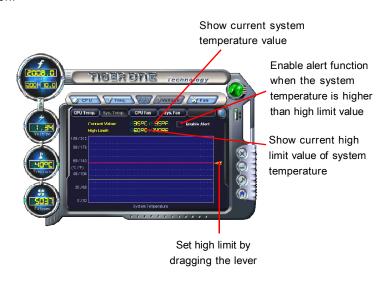
4.1 Limit Setting - CPU Temp.

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



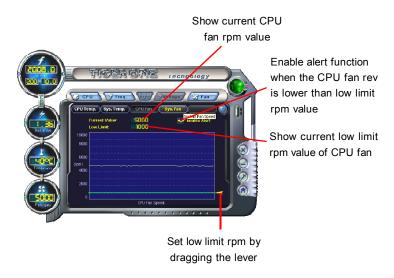
4.2 Limit Setting - Sys Temp.

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



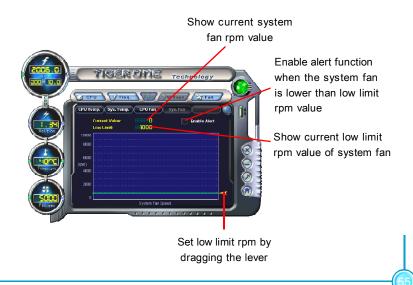
4.3 Limit Setting - CPU Fan

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



4.4 Limit Setting - Sys Fan

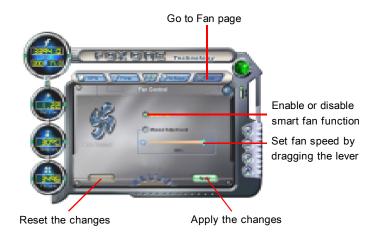
This page lets you to set system low limit rpm and enable the alert function.



Chapter 5 Directions for Bundled Software

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.

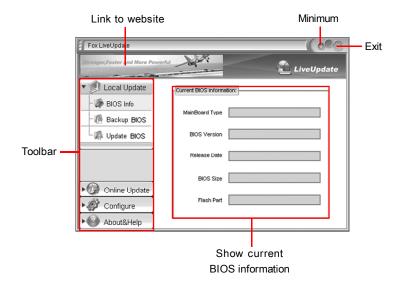
Supported Operating Systems:

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

Using Fox LiveUpdate:

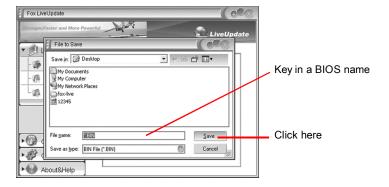
1.1 Local Update - BIOS Info.

This page lets you know your system BIOS information.



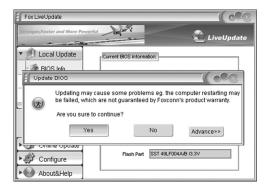
1.2 Local Update - Backup

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.

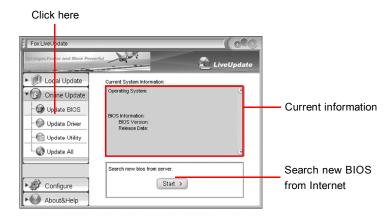


Note:

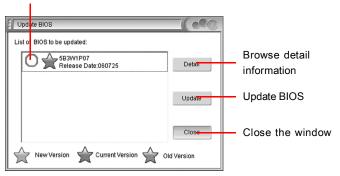
Fox LiveUpdate will auto backup BIOS before update because we have enabled this function in Configure option.

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.

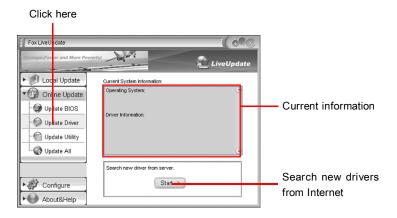


Select BIOS to update

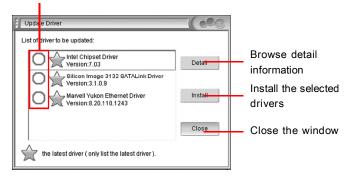


2.2 Online Update - Update Driver

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.

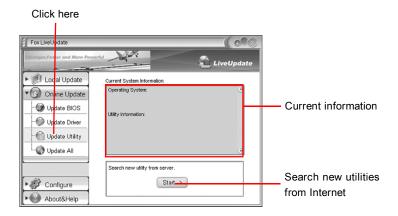


Select the drivers to update



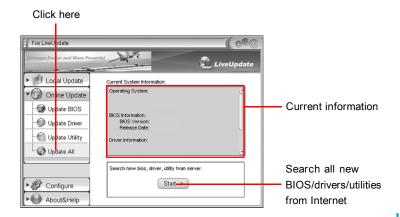
2.3 Online Update - Update Utility

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.



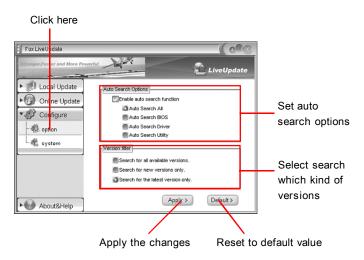
2.4 Online Update - Update All

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.



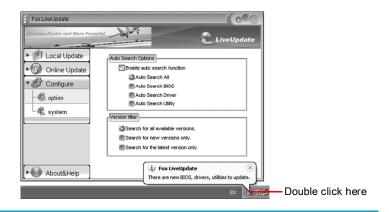
3.1 Configure - option

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.



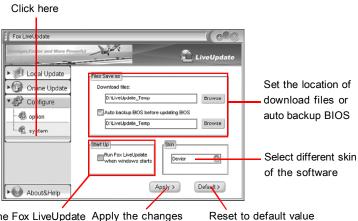
Note:

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 Recan auto run when the system starts up

4. About & Help

This page shows some information about Fox LiveUpdate.

