Statement:

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Trademark:

All trademarks are the property of their respective owners.

Version:

User's Manual V1.0 for 945P7AD/945G7AD 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's website: http://www.foxconnchannel.com

This product and its accessories are produced after 13th Aug., 2005 and comply with the WEEE2002/96EC directive.

Declaration of conformity

$$C\epsilon$$

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

945P7AD/945G7AD

is in conformity with

(reference to the specification under which conformity is declared in

accordance with 89/336 EEC-EMC Directive)

þ EN 55022: 1998/A2: 2003 Limits and methods of measurements of radio disturbance characteristics of information technology equipment

þ EN 61000-3-2/:2000 Electromagnetic compatibility (EMC)
Part 3: Limits
Section 2: Limits for harmonic current emissions
(equipment input current <= 16A per phase)

þ 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

þ EN 55024/A2:2003 Information technology equipment-Immunity characteristics limits and methods of measurement

Signature : _James Liang_   Place / Date : _TAIPEI/2006_

Printed Name : _James Liang_   Position/ Title : _Assistant President_

Declaration of conformity
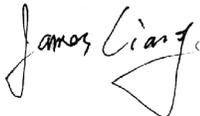
FC

Trade Name:	Foxconn
Model Name:	**945P7AD/945G7AD**
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 : *James Liang*   Date : 2006

Table of Contents

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ⓘ **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 high temperatures.
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.

ⓘ **Attention:**

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

ⓘ **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.

ⓘ **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 945P7AD/ 945G7AD. Each motherboard is carefully designed for the PC user who wants diverse features.

-L   with onboard 10/100M LAN (Default is omitted.)
-K   with onboard Gigabit LAN
-6   with 6-Channel audio (Default is omitted.)
-8   with 8-Channel audio
-E   with 1394 function
-S   with SATA function
-2   with DDR2 function
-R   with RAID function
-H   comply with RoHS directives

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

ULBA4160000B PC   XXXXXXX-ES

The letters on the black mark of the PPID label, it means the motherboard supports 6-Channel Audio (-6)(default), 1394 port (-E), onboard 10/100M LAN (-L)(default), SATA function (-S).

Chapter **1**

Thank you for buying Foxconn's 945P7AD/945G7ADseries 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 Intel® 945P/945G + ICH7/ICH7R chipset, providing users a computer platform with a high integration-compatibility-performance price ratio.

This chapter includes the following information:

   ∨ Main Features
   ∨ Layout
   ∨ Rear I/O Ports

Main Features

Size
- ATX form factor of 12 inch x 9.6 inch

Microprocessor
- Supports Intel® Core™ 2 Extreme Edition,Core™ 2 Duo,Pentium® D,Pentium® 4 Extreme Edition,Pentium® 4,Celeron® D processors in an LGA775 package
- Supports FSB at 533 MHz /800 MHz /1066 MHz

Chipset
- Intel® 945P/945G (North Bridge) + ICH7/ICH7R (South Bridge)

System Memory
- Four 240-pin DIMM slots
- Supports Dual-Channel DDR2 667/533/400
- Supports up to 4GB DDR2 memory

USB 2.0 Ports
- Supports hot plug
- Eight USB 2.0 ports
- Supports wake-up from S1 and S3 mode
- Supports USB 2.0 protocol up to 480Mbps transmission rate

Onboard Serial ATA II
- 300MBps data transfer rate
- Supports RAID 0, RAID 1, RAID 10 (only for ICH7R)
- Four internal Serial ATA II connectors and one external Serial ATA II connector

Onboard LAN (-K)
- One LAN interface built-in onboard
- Supports 10/100/1000 Mbit/sec Ethernet

Onboard 1394 (-E) (optional)

• Support hot plug
• With rate of transmission at 400 Mbps
• Can connect with 2 independent 1394 units synchronously at most

Onboard Audio (-6)(optional)

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

Onboard Audio (-8)(optional)

• Supports SPDIF output
• Supports Jack-Sensing function
• Supports Intel® High Definition Audio

PCI Express x16 Support

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

Onboard Graphic(supported on 945G only)

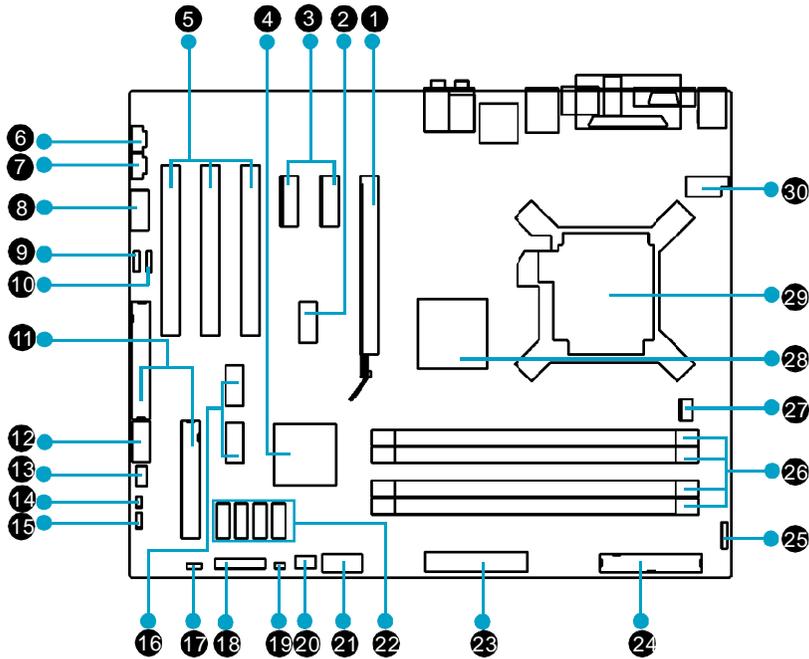• Supports intergrated VGA display function

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

• Three PCI slots
• one PCI Express x16 Graphics slot
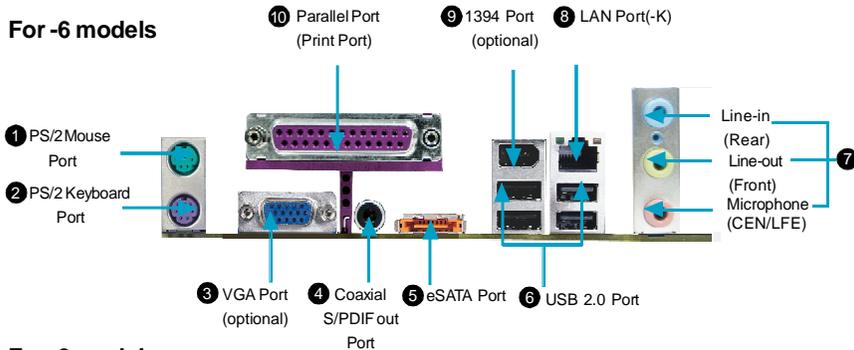• two PCI Express x1 slot

Layout

1. PCI Express x16 Slots
2. 1394a Connector (optional)
3. PCI Express x1 Slots
4. South Bridge: Intel®ICH7/ICH7R Chipset
5. PCI Slots
6. AUX-IN Connector (optional)
7. CD_IN Connector
8. Front Audio Connector
9. SPIDF_OUT Connector
10. Speaker Connector
11. IDE Connector: PIDE
12. Front Panel Connector
13. SPI Connector (optional)
14. J1 Connector (optional)
15. Clear CMOS Jumper

16. Front USB Connectors
17. BIOS TBL Protect Jumper (optional)
18. TPM Connector
19. Chassis Intruder Connector
20. SYS_FAN1 Connector
21. COM2 Connector
22. SATA II Connector
23. 24-pin ATX Power Connector: PWR2
24. FDD Connector
25. IrDA Header
26. DDR2 DIMM Slots
27. CPU_Fan Connector
28. North Bridge: Intel® 945P/945G Chipset
29. LGA 775 CPU Socket
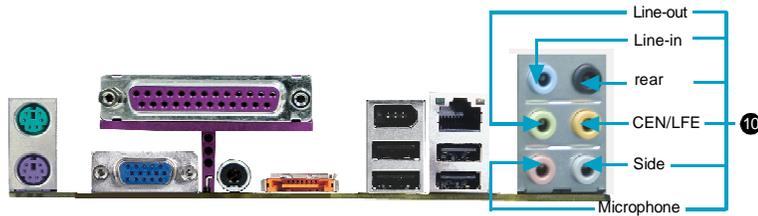30. 8-pin ATX_12V Power Connector: PWR1

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

Rear I/O Ports

This motherboard provides the ports as below:

For -6 models

⑩ Parallel Port
(Print Port)

⑨ 1394 Port
(optional)

⑧ LAN Port(-K)

❶ PS/2 Mouse
Port

❷ PS/2 Keyboard
Port

❸ VGA Port
(optional)

❹ Coaxial
S/PDIF out
Port

❺ eSATA Port

❻ USB 2.0 Port

Line-in
(Rear)
Line-out
(Front)
Microphone
(CEN/LFE)

❼

For -8 models

Line-out

Line-in

rear

CEN/LFE ⑩

Side

Microphone

❼ Line-in jack,Line-outjack,Microphone jack (for -6models)
When using a 2-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 rear speaker to the blue audio output;connect the
center speaker/subwoofer to the red Microphone output.

⑩ Line in, Line out, Microphone, Rear, LEF/CEN, Side Jacks(for -8models)
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; con-
nect 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, memory, power supply, slots, and pin headers, and the mounting of jumpers. Caution should be exercised during the installation of these modules. 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

CPU

This motherboard supports single processor including Intel® Core™ 2 Extreme Edition,Core™ 2 Duo,Pentium® D,Pentium® 4 Extreme Edition,Pentium® 4, Celeron® D processors in an LGA775 package with a Front Side Bus (FSB) of 1066/800/533 MHz.

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

Installation of CPU

Below is the CPU socket illustration. Follow these procedures to install a CPU.

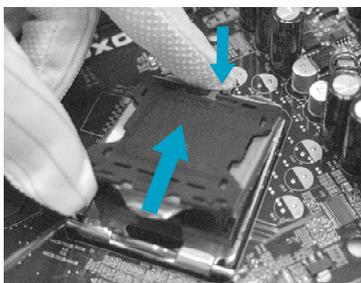Load lever ——————— Load plate

Protective cover
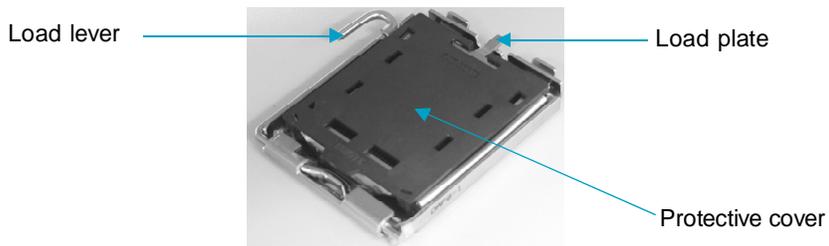
1. Use thumb and forefinger to hold the hook of the load lever and pull the lever down and away from socket to unlock it. Lift the load lever.

2. Push down the rear tab with your forefinger to bring the front end of the load plate up slightly. Open the load plate with thumb. Be careful not to touch the contacts.

3. Hold CPU with thumb and forefinger. Ensure fingers align to socket cutouts. Match the CPU triangle marker to Pin 1 position as shown below. The alignment key also provides the orientation directed function. Lower the CPU straight down without tilting or sliding the CPU in the socket.
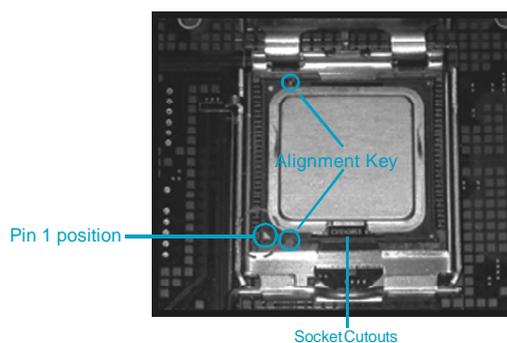
4. After installing the CPU, remove the protective cover from load plate. The protective cover is used to protect the contacts of the socket. Do not discard the protective cover. Always replace the socket cover if the CPU is removed from the socket.
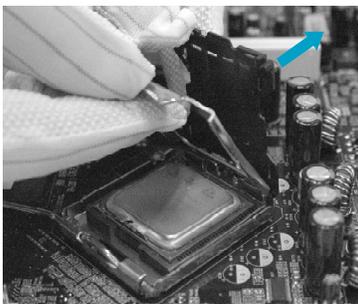
5. Close the load plate, and slightly push down the tongue side.

6. Lower the lever and lock it to the load plate, then the CPU is locked completely.

☑ Note :

Excessive temperatures will severely damage the CPU and system. Therefore, you should install CPU cooling fan and make sure that the cooling fan works normally at all times in order to prevent overheating and damaging to the CPU. Please refer to your CPU fan user guide to install it properly.

Memory

This motherboard includes four 240-pin DIMM slots. So You must install at least one memory bank to ensure normal operation.

Installation of DDR2 Memory

1. There is only one gap near the center of the DIMM slot, and the memory module can be fixed in one direction only. Unlock a DIMM slot by pressing the module clips outward.
2. Align the memory module to the DIMM slot, and insert the module vertically into the DIMM slot.

128 Pins   112 Pins
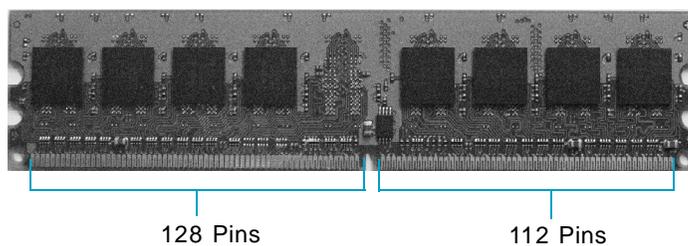
3. The plastic clips at both sides of the DIMM slot will lock automatically.

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

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.

24-pin ATX power connector: PWR2

PWR2 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
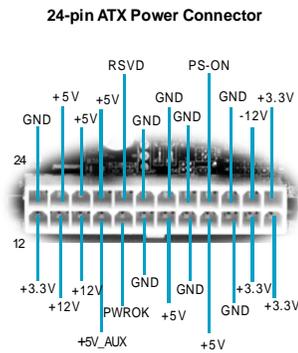
8-pin ATX_12 V Power Connector: PWR1

The 8-pin ATX 12V power supply connects to PWR1 and provides power to the CPU.

8-pin ATX_12 V Power Connector
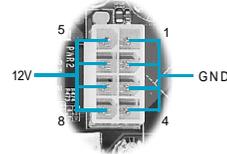
Note:

We strongly recommend that you use 8-pin ATX 12V power supply. If you want to use 4-pin power supply, connect the 4-pin power connector as shown.

Connect a 4-pin power plug here

Other Connectors

This motherboard includes connectors for FDD devices, IDE devices, Serial ATA devices, USB devices, IR module, and others.
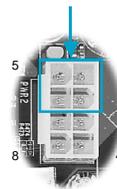
FDD Connector: FLOPPY

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

IDE Connectors: PIDE

The PIDE connector supports Ultra ATA 100/66 IDE hard disk drives.

Connect the cable's blue connector to the IDE connector, then connect the gray connector to the slave device (hard disk drive) and the black connector to the Ultra ATA 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.

Front Panel Connector: FP1

This motherboard includes one connector for con-
necting the front panel switch and LED indicators.
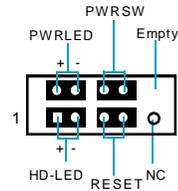
HDD LED Connector (HD-LED)

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

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 (PWRLED)

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 (PWRSW)

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.

Audio Connector: F_AUDIO(for -6 models)
(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 head-
phones 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 don't 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.
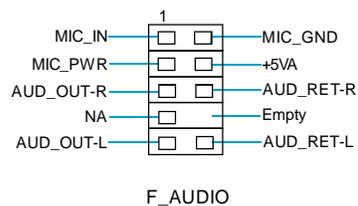
Audio Connector: F_AUDIO(for -8 models)(optional)
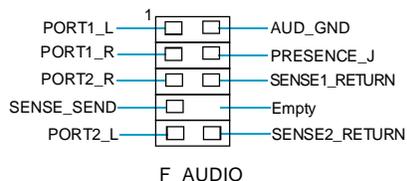
The audio interface provides two kinds of audio output choices:the Front Audio,the Rear Audio.Their priority is the same.Front Audio supports re-tasking function.

PORT1_L —— AUD_GND
PORT1_R —— PRESENCE_J
PORT2_R —— SENSE1_RETURN
SENSE_SEND —— Empty
PORT2_L —— SENSE2_RETURN

F_AUDIO

Audio Connectors: CD_IN,AUX_IN(optional)

CD_IN and AUX_IN are Sony standard CDaudioconnectors,they can be connected to a CD-ROM drive through a CD audio cable.

AUX_L
GND
AUX_R
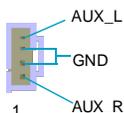
AUX_IN (optional)

CD_R
GND
CD_L
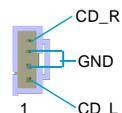
CD_IN

Fan Connectors: CPU_FAN, SYS_FAN1

The fan speed can be detected and viewed in "PC Health Status" section of the CMOS Setup. These fans will be automatically turned off after the system enters S3, S4 and S5 mode.

GROUND   SENSE

POWER   CONTROL

SYS_FAN1

GROUND   SENSE

POWER   CONTROL
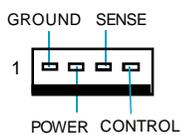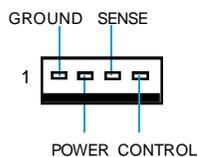
CPU_FAN

Serial ATA II Connectors: SATA_1, SATA_2, SATA_3, SATA_4

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

GND GND GND
TX+ RX+
TX- RX-

SATA_1/2/3/4
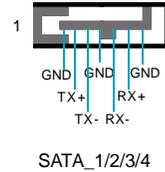
Chassis Intruder Connector: INTR

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.

1 INTRUDERJ   2 GND

INTR
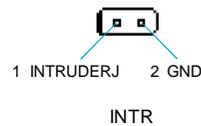
USB Headers: F_USB1, F_USB2,

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

NC — Empty
GND — GND
D+ — D+
D- — D-
5V_DUAL — 5V_DUAL
1

F_USB 1/2
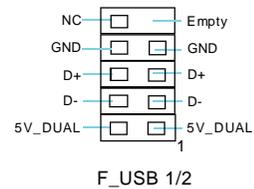
Additional COM Connector: COM2

This motherboard provides an additional serial COM header for your machine.

Connect one side of a switching cable to the header, then attach the serial COM device to the other side of the cable.

DTR# CTS#
SIN DSR# Empty

2 [ ] [ ] [ ] [ ] [ ] 10

1 [ ] [ ] [ ] [ ] [ ] 9

RLSD GND RI#
SOUT RTS#

COM2
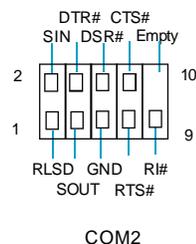
1394 Connector: F_1394 (optional)

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 real panel of the chassis.

10   9

GND — Empty
+12V — +12V
TPB - — TPB +
GND — GND
TPA - — TPA +

2   1

F_1394
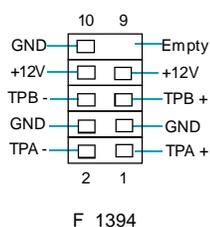
IrDA Connector: IR

This header supports wireless transmitting and receiving device. Before using this function, configure the settings of IR Mode from the "Integrated Peripherals" section of the CMOS Setup.

1

+5V
Empty
IRRX
GND
IRTX

IR
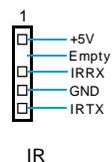
S/PDIF Out Connector: SPDIF_OUT

The SPDIF OUT connector is capable of providing digital audio to external speaker or compressed AC3 data to an external Dolby digital decoder.
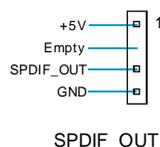
Note:The empty pin of SPDIF cable should be aligned to empty pin of SPDIF out connector.

+5V — 1
Empty
SPDIF_OUT
GND

SPDIF_OUT

SPI Connector (optional)

This motherboard provides a SPI connector, which is used to flash 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.

```
        1    2
3D3V_SYS ┤□  □├ ICH_SPI_CSJ
SPI_HOLDJ ┤□  □├ ICH_SPI_MISO
ICH_SPI_CLK ┤□    ├ Key
ICH_SPI_MOSI ┤□  □├ GND
        7    8
```

SPI
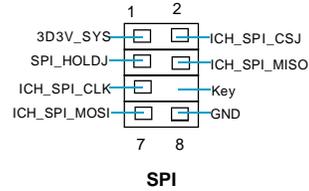
Speaker Connector: SPEAKER

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

```
  1
  □┤── SPKJ
   ├── Empty
  □┤── NC
  □┤── SPKJ
```

SPEAKER

17
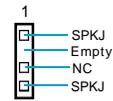
Expansion Slots

This motherboard includes three 32-bit master PCI slots,two PCI Express x 1 slots,one PCI Express x 16 slots.

PCI Slots

The expansion cards can be installed in the three PCI slots. PCI slots support cards such as a LAN card, USB card, SCSI card and other cards that comply with PCI specifications.

PCI Express x1 Slots

This motherboard has two PCI Express x1 slots that designed to accommodate less bandwidth-intensive cards, such as a modem or LAN card.

PCI Express x16 Slots

This motherboard has one PCI Express x16 slots that reserved for graphics or video cards. The difference in bandwidth between the x16, x1 slots is notable to be sure, with the x16 slot pushing 4GB/sec (8GB/sec concurrent) of bandwidth, and the PCI Express x1 slot offering 250MB/sec.

For the detailed PCI Express x16 graphics cards support list on this motherboard, please visit the website: http://www.foxconnchannel.com

Jumpers

The 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 content carefully prior to modifying any jumper settings.

Description of Jumpers

1. For the jumpers on this motherboard, pin 1 can be identified by the bold silk screen. However, in this manual, pin 1 is simply labeled as "1".
2. The following table provides some explanation of the jumper pin settings. User should refer to this when adjusting jumper settings.

Jumper	Diagram	Definition	Description
1	1	1-2	Set pin1 and pin2 closed
	1	2-3	Set pin2 and pin3 closed
1	1	Closed	Set the pin closed
	1	Open	Set the pin opened

Clear CMOS Jumper: CLR_CMOS

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

How to clear CMOS?

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 together with the jumper cap).

3. Turn the AC power supply back on.

NORMAL
(Default)
1 2 3

CLEAR
1 2 3

CLR_CMOS

⊘ Warning:

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

BIOS TBL ENABLE Jumper: TBL_EN
（**optional**）

The system cannot boot, if the BIOS failed to be flashed in conventional flash BIOS process. You will have no such worry when using the BIOS TBL function, which is used to protect BIOS "Top Boot Block". By using this function, the system still can boot even if the flash BIOS fails and show some information to recover the BIOS. To utilize this function , you just leave this jumper as short pin 2 and 3 with the jumper cap.

BIOS TBL
Enabled

1 2 3

BIOS TBL
Disabled

1 2 3

TBL_EN
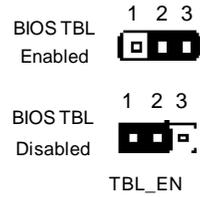
Chapter **3**

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
- ∨ Fox Central Control Unit
- ∨ Advanced BIOS Features
- ∨ Advanced Chipset Features
- ∨ Integrated Peripherals
- ∨ Security Chip Features
- ∨ Power Management Setup
- ∨ PnP/PCI Configurations
- ∨ PC Health Status
- ∨ 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 <Del> key to enter the Award BIOS CMOS Setup Utility.
Press TAB to show POST Screen, DEL to enter SETUP, ALT+F to enter AWDFLASH.

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.
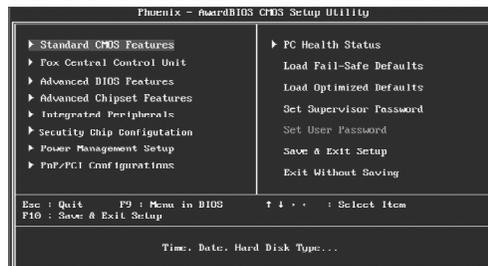
Main Menu

The items in the main menu are explained as below:
Standard CMOS Features
The basic system configuration can be set up through this menu.

Fox Central Control Unit
The special 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.

Security Chip Features

The advanced system features 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.

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 Password

The supervisor password can be set up through this menu.

Set User Password

The user password can be set up through this menu.
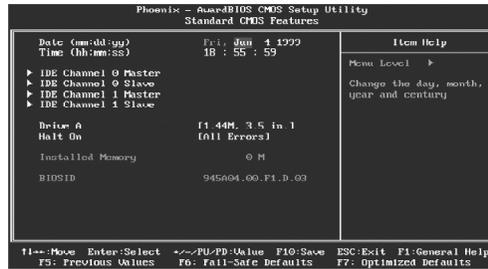
Save & Exit Setup

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 day) 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 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

These categories identify the HDD types of 1 IDE channel 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		

Award (Phoenix) BIOS can support 3 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

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

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 disk error, but it will stop for all other errors.

Memory
This is a Display-Only Category, which identifies the amount of memory installed in system.

Fox Central Control Unit
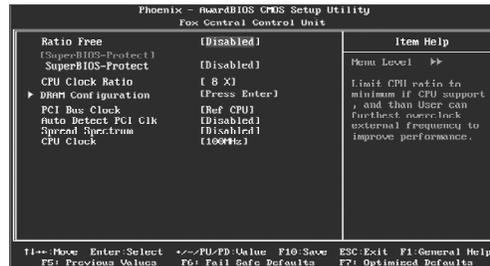
Fox Central Control Unit Menu

∨**Ratio Free**

This option is used to limit CPU ratio to minimum if CPU supports,then user can furthest overclock external frequency to improve performance.

[SuperBIOS-Protect]
∨**SuperBIOS-Protect**

SuperBIOS-Protect function protects your PC from viruses,e.g CIH.

∨**CPU Clock Ratio**

This option is used to set the radio of an unlocked CPU.

∨**DRAM Configuration**

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

∨**PCI Bus Clock**

This option is used to set PCI Bus Clock.

∨**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 signifiantly reduce the EMI(Electro-Mag netic Interference)generated by the system.

∨**CPU Clock**

This option is used to set CPU Clock .
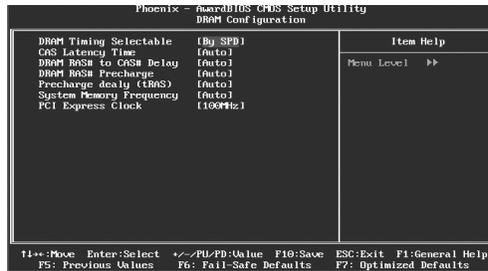
DRAM Configuration Menu

∨ DRAM Timing Selectable

This item determines DRAM clock/ timing using SPD or manual configuration.

∨ CAS Latency Time

This item determines CAS Latency.

∨ DRAM RAS# to CAS# Delay

This item allows you to select a delay time between the CAS and RAS strobe signals.

∨ DRAM RAS# Precharge

This item allows you to select the DRAM RAS# precharge time.

∨ Precharge delay(tRAS)

This item allows you to set the precharge delay time.

∨ System Memory Frequency

This item allows you to set System Memory Frequency.

∨ PCI Express Clock

This item allows you to set PCI Express Clock value.

Advanced BIOS Features

Advanced BIOS Features Menu

∨ **CPU Feature**
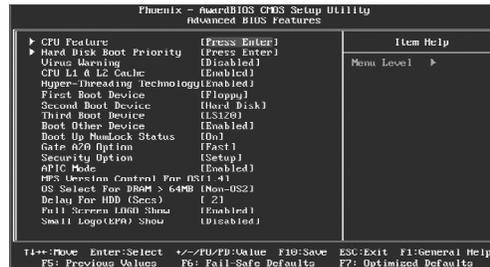
Press enter to set the items of CPU feature.

∨ **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.

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

∨ **CPU L1 $ L2 Cache**

This option allows you to turn on or off the L1 and L2 CPU Cache.

∨ **Hyper-Threading Technology**

This option is used to turn on or off the Hyper-Threading function of the CPU.
**Note: This function will not be displayed until a CPU that supports Hyper-
        Threading has been installed.**

∨ **First/Second/Third Boot Device**

This option allows you to set the boot device's sequence.

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∨**Boot Other Device**

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

∨**Boot Up NumLock Status**

This item defines if the keyboard Num Lock key is active when your system is started. The available setting values are: On and Off.

∨**Gate A20 Option**

This option is used to set up the A20 signal control necessary for system is started.

∨**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 function.

∨**MPS Version Control For OS**

This option is used to set up the version of MPS Table used in 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 item at the default.

∨**Delay For HDD(secs)**

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

∨**Full Screen LOGO Show**

This option allows you to enable or disable the full screen logo. The available setting values are: Disabled and Enabled.

∨**Small Logo (EPA) Show**

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

CPU Feature Menu

∨**Delay Prior to Thermal**

This option is used to set up the time for CPU to enter the energy-saving mode.

Note: The following options are used to set Prescott CPU.

∨**Thermal Management**

This option is used to manage Prescott CPU thermal.

∨**TM2 Bus Ratio**

Represents the frequency bus ratio of the throttled performance state that will be initiated when the on-diesensor goes from not hot to hot.

∨**TM2 Bus VID**

Represents the voltage of the throttled performance state that will be initiated when the on-diesensor goes from not hot to hot.

∨**Limit CPUID MaxVal**

The option is used to set limit CPUID MaxVal. The available setting values are: Disabled and Enabled. Set Limit CPUID MaxVal to 3, should be "Disabled" for WinXP.

∨**C1E Function**

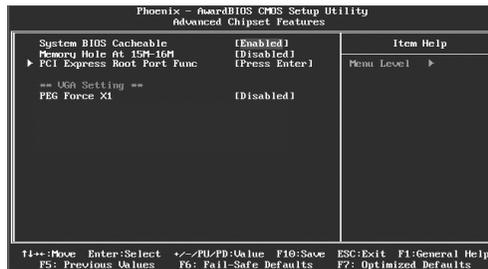The option is used to enable or disable C1E(Enhanced Halt State) function.

∨**Execute Disable Bit**

The option is used to enable or disable execute disable bit.

∨**Virtualization Technology**

The option is used to enable or disable Virtualization Technology.

Advanced Chipset Features

Advanced Chipset Features Menu

∨**System BIOS Cacheble**

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

∨**Video BIOS Cacheable**

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

∨**Memory Hole At 15M-16M**

This item is used to determine whether the 15M-16M address field of memory is reserved for the ISA expansion card.

∨**PCI Express Root Port Func**

Press <Enter> to enter PCI Express Root Port Func sub-menu.

∨**PEG/On-Chip VGA Control**

This item is used to set PEG/On-Chip VGA Control.

∨**PEG Force X1**

This item is used to enable or disable PEG/On-Chip VGA Control.

∨**On-Chip 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.

∨DVMT Mode

This item is used to set Dynamic Video Memory Technology Mode.

∨DVMT/FIXED Memory Size

This item is used to set DVMT/FIXED Memory Size.

∨Boot Display

This item is used to select the display mode used when your PC starts up.
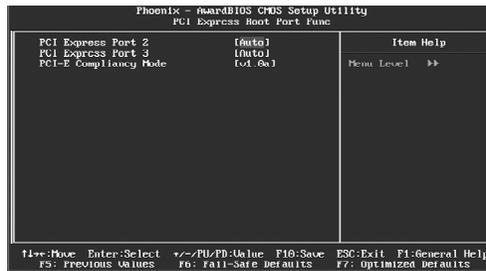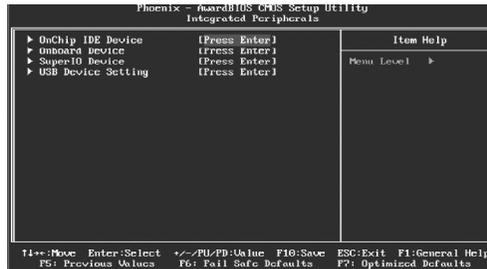

PCI Express Root Port Func Menu

∨PCI Express Port 2/3

This option is used to enable or disable PCI Express port 2/3.

∨PCI-E Compliancy Mode

This option is used to select PCI-E compliancy mode.

Integrated Peripherals

Phoenix - AwardBIOS CMOS Setup Utility
Integrated Peripherals

▶ OnChip IDE Device [Press Enter]	Item Help
▶ Onboard Device [Press Enter]	
▶ SuperIO Device [Press Enter]	Menu Level ▶
▶ USB Device Setting [Press Enter]	

↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values   F6: Fail Safe Defaults   F7: Optimized Defaults

Integrated Peripherals Menu

∨**OnChip IDE Device**

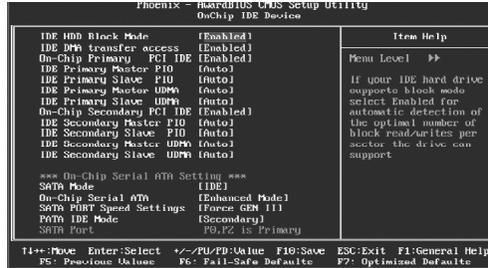Press enter to set onchip IDE device.

∨**Onboard Device**

Press enter to set onboard device.

∨**SuperIO Device**

Press enter to set onboard SuperIO device.

∨**USB Device Setting**

Press enter to set USB Device Setting.

OnChip IDE Device Menu

∨**IDE HDD Block Mode**

This option is used to set whether the IDE HDD block mode is allowed.

∨**IDE DMA transfer access**

This option is used to set the IDE transfer access—with it set to Enabled, the IDE Transfer Access uses the DMA mode; with it set to Disabled, the IDE Transfer Access uses the PIO mode.

∨**On-Chip Primary/Secondary PCI IDE**

Use this item to enable or disable the Primary/Secondary PCI IDE channel that is inte-grated on the motherboard.

∨**IDE Primary/Secondary Master/Slave PIO**

These four items let you assign which kind of PIO (Programmed 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.

∨**IDE Primary/Secondary Master/Slave UDMA**

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

∨**SATA Mode**

This option is used to set the Serial ATA Mode.

∨**On-Chip Serial ATA**

This option is used to set the On-chip Serial ATA function. When it is set to Disabled, the function will be disabled; when it is set to Auto, the BIOS will enable the function automatically; with it set to Combined Mode, four HDDs at most will be supported; with it set to Enhanced Mode, six HDDs at most will be supported (for those under Windows 2000 and Windows XP only); with it set to SATA Only, only the S-ATA HDD can be used.

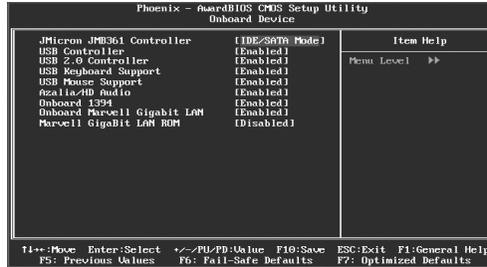∨**SATA PORT Speed Setting**

This option is used to set the Serial ATA PORT Speed.

∨**PATA IDE Mode**

When On-Chip Serial ATA set as "Combined Mode", this option will be modified. It is used to set the PATA IDE Mode. The available setting values are: Primary, Secondary.

∨**SATA Port**

This option is used to set the Serial ATA Port.

Onboard Device Menu

∨ **Azalia/AC97 Audio Select**

This option is used to set Azalia/AC97 Audio select.

∨ **Onboard Audio Controller**

This option is used to set whether the Onboard Audio Controller is enabled.
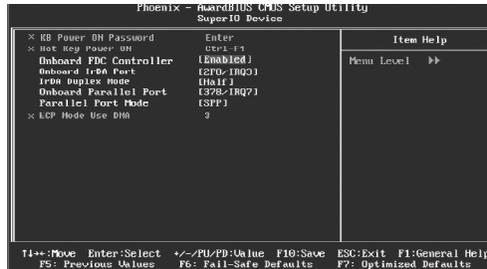
∨ **VIA 1394 Controller**

This option is used to set whether the VIA 1394 Controller is enabled.

∨ **JMB361 IDE Controller**

This option is used to set the JMB361 IDE Controller.

∨ **LAN Controller**

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

SuperIO Device Menu

∨ KB Power ON Password
This option is used to set the KB Power ON Password.

∨ Hot Key Power ON
When the POWER ON Function set to Hot KEY, use this item to set the hot key combination that turns on the system.

∨ Onboard FDC Controller
This option is used to set whether the Onboard FDC Controller is enabled. The available setting values are: Disabled and Enabled.

∨ Onboard IrDA Port
This option is used to set the Onboard IrDA Port .

∨ IrDA Duplex Mode
This item enables you to determine the infrared function of the onboard infra-red 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 for the onboard parallel port. The setting values are: SPP, EPP, ECP, ECP+EPP.

∨ ECP Mode Use DMA
When the Parallel Port Mode is set to ECP or ECP+ EPP, this option is used to select the channel for the ECP mode.
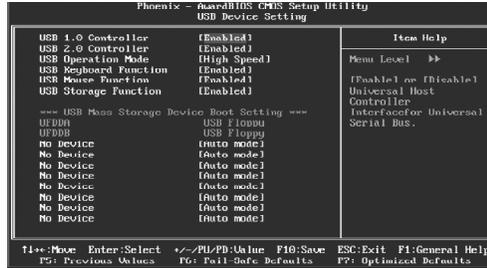
USB Device Setting Menu

∨**USB 1.0 Controller**

This option is used to set whether the USB 1.0 Controller is enabled.

∨**USB 2.0 Controller**

This option is used to set whether the USB 2.0 Controller is enabled.

∨**USB Operation Mode**

This option is used to set USB Operation Mode.

∨**USB Keyboard Function**

This option is used to set whether the USB keyboard controller is enabled in a legacy operating system (such as DOS).

∨**USB Mouse Function**

This option is used to set whether the USB mouse controller is enabled in a legacy operating system (such as DOS).

∨**USB Storage Function**

This option is used to set whether the USB Storage Function is enabled.

Security Chip Features
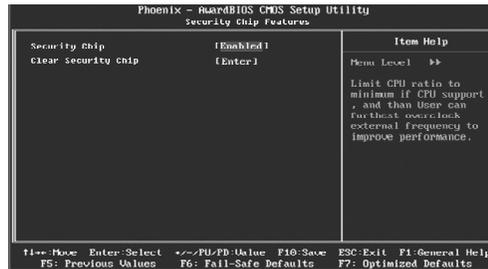
Security Chip Features Setup Menu

ᐯ**Security Chip**

This option is used to set whether the Security is enabled .

ᐯ **Clear Security Chip**

This option is used to set the Clear Security Chip function.

Power Management Setup

Power Management Setup Menu

∨ACPI function

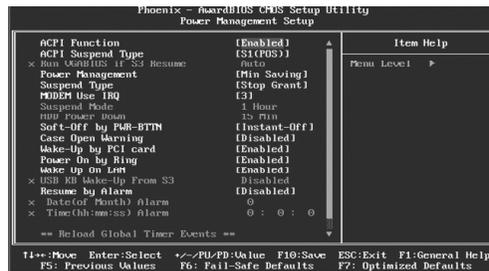ACPI stands for "Advanced Configuration and Power Interface". ACPI is a standard that defines power and configuration management interfaces between an operating system and the BIOS. In other words, it is a standard that describes how computer components work together to manage system hardware. In order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

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

∨Run VGABIOS if S3 Resume

This option allows the system to initialize the VGABIOS from S3 (Suspend to RAM) sleep state. The available setting values are: Auto, Yes and No.

∨Power Management

This option is used to set the power management scheme.

∨**Vdieo 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" mode is a new screen power management system, and it needs to be supported by the monitor you're using.

∨**Video Off In Suspend**

This option is used to determine whether the video is turned off when the system enters sleep mode.

∨**Suspend Type**

This option is used to set sleep mode.

∨**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. In order for this function to work, the Fax/Modem must be connected to the WOM header on the motherboard.

∨**Suspend Mode**

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

∨**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.

∨**Soft-Off by PWR-BTTN**

This option is used to set the power down method.This function is only valid for systems using an ATX power supply.

∨**CPU THRM-Throttling**

This option is used to specify the CPU speed (at percentage) to slow down the CPU when it reaches the predetermined overheat temperature.

∨**Power Management Events**

Press <Enter> to set the items of power management events.

∨**Primary IDE 0/1, Secondary IDE 0/1**
When these items are enabled, the system will restart the power saving timeout
counters when any activity is detected on any of the drives or devices on the
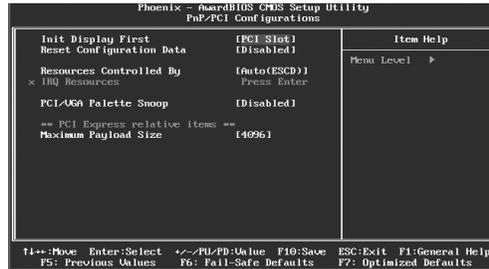primary or secondary IDE channels.

∨**FDD, COM, LPT Port**
When this item is enabled, the system will restart the power saving timeout
counters when any activity is detected on the floppy disk drive, serial port, or
the parallel port.

∨**PCI PIRQ[A-D]#**
When this option is disabled, any PCI device set as the Master will not power
on the system.

PnP/PCI Configurations

PnP/PCI Configurations Menu

∨ **Init Display First**

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

∨ **Reset Configuration Data**

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 wil automatically distributes interruption resources.If the ISA cards you installed not support- ing 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 doesn't apply.

∨ **Resources Controlled By**

This option is used to set whether the system is permitted to automatically distribute IRQ DMA and I/O addresses when each time that the machine is turned on. The setting values are: Disabled and Enabled.

∨**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 accelera- tion card or MPEG audio card problems (e.g., colors not accurately displayed).
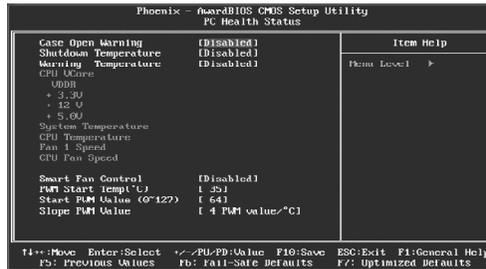
∨**INT Pin 1-8 Assignment**

This option is used to name the interrupt request (IRQ) line assigned to a device connected to the PCI interface on your system.

∨**Maximum Payload Size**

This option is used to set maximum TLP payload size for PCI Express devices.

The unit is byte.

PC Health Status

PC Health Status Menu

∨Case Open 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 warning temperature for the system. When the temperature of CPU is higher than setting value, the motherboard will send off warning information.

∨CPU VCore/ VDDR/+ 3.3V/+12V/+5.0V

The current voltages will be automatically detected by the system.

∨ CPU/System Temperature

The CPU/System temperature will be automatically detected by the system.

∨Fan1/CPU Fan Speed

The Fan1/CPU Fan Speed will be automatically detected by the system.

∨Smart Fan Control

This option is used to enable or disable smart fan function.

∨PWM Start Temp (^{0}c)

This option is used to set PWM Start Temperature.

∨Start/Slope PWM Value

This option is used to set Start/Slope PWM Value.

Load Fail-Safe Defaults

Press <Enter> to select this option. A dialogue box will pop up that allows you to load the default BIOS settings. Select <Y> and then press <Enter> to load the defaults. Select <N> and press <Enter> to exit without loading. The defaults set by BIOS set the basic system functions in order to ensure system stability. But if your computer cannot POST properly, you should load the fail-safe defaults to restore the original settings. Then carry out failure testing. If you only want to load the defaults for a single option, you can select the desired option and press the <F6> key.

Load Optimized Defaults

Select this option and press <Enter>, and a dialogue box will pop up to let you load the optimized BIOS default settings. Select <Y> and then press <Enter> to load the optimized defaults. Select <N> and press <Enter> to exit without loading. The defaults set by BIOS are the optimized performance parameters for the system, to improve the performance of your system components. However, if the optimized performance parameters are not supported by your hardware devices, it will likely cause system reliability and stability issues. If you only want to load the optimized default for a single option, select the desired option and press the <F7> key.

Set Supervisor/User Password

The access rights and permissions associated with the Supervisor password are higher than those of a regular User password. The Supervisor password can be used to start the system or modify the CMOS settings. The User password can also start the system. While the User password can be used to view the current CMOS settings, these settings cannot be modified using the User password. When you select the Set Supervisor/User Password option, the following message will appear in the center of the screen, which will help you to set the password:

<p align="center">**Enter Password:**</p>

Enter your password, not exceeding 8 characters, then press <Enter>. The password you enter will replace any previous password. When prompted, key in the new password and press <Enter>.

If you do not want to set a password, just press <Enter> when prompted to enter a password, and in the screen the following message will appear. If no password is keyed in, any user can enter the system and view/modify the CMOS settings.

Password Disabled!!!
Press any key to continue …

Under the menu "Advanced BIOS Features", if you select "System" from the Security Option, you will be prompted to enter a password once the system is started or whenever you want to enter the CMOS setting program. If the incorrect password is entered, you will not be permitted to continue.
Under the menu "Advanced BIOS Features", if you select "Setup" from the Security Option, you will be prompted to enter a password only when you enter the CMOS setting program.

Save & Exit Setup

When you select this option and press <Enter>, the following message will appear in the center of the screen:

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

Press <Y> to save your changes in CMOS and exit the program; press <N> or <ESC> to return to the main menu.

Exit Without Saving

If you select this option and press <Enter>, the following message will appear in the center of the screen:

Quit Without Saving (Y/N)?N

Press <Y> to exit CMOS without saving your modifications; press <N> or <ESC> to return to the main menu.

Chapter **4**

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:

- V Utility CD content
- V Installing Drivers
- V 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 drive. The CD will automatically displays the main menu screen.

1. Install Driver

Using this choice, you can install all the drivers for your motherboard. You should install the drivers in order and you need to restart your computer after the drivers all installed.

|	
A. Intel Chipset Driver	B.Realtek (HDA) Audio Driver (optional)
C. Realtek LAN Driver	D.Intel VGA Driver (optional)
E. Intel RAID Driver (optional)	F.JMB RAID Driver

2. Utility

Use this option to install additional software programs.

A. FOX ONE	B. Fox LiveUpdate
C. Microsoft DirectX 9.0	D. Adobe Acrobat Reader
E. Norton Intel Security	F. Creat RAID Driver Floppy
G. Intel RAID Utility (optional)	

3. Click on dynamic Foxconn Logo to visit our homepage.

Installing 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 automatic after install Intel Chipset Driver.

— Install by manual

— Install by automatic
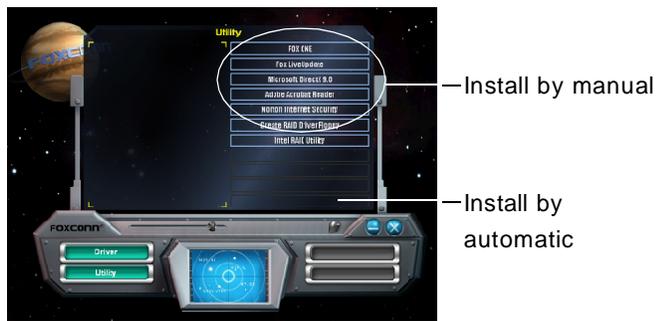
Installing Utilities

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

— Click here

Chapter**5**

This chapter will introduce how to use attached software.

This chapter provides the following information:
- v   FOX ONE
- v   Fox LiveUpdate

FOX ONE

FOX 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 FOX 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 FOX ONE:

1. Main Page

Show CPU Information

Toolbar

Alert Lamp

Switch Button

Exit
Minimum
Configuration
Homepage
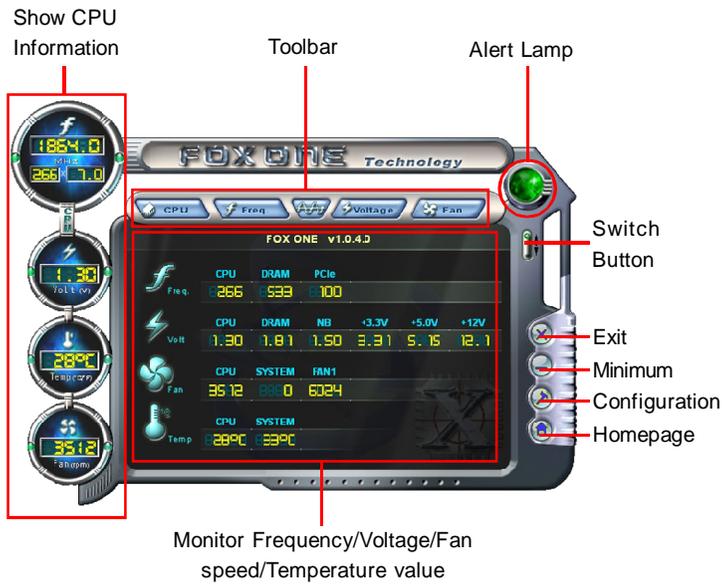
Monitor Frequency/Voltage/Fan speed/Temperature value

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.

Click here to return to previous status

Exit

Click this button to exit the program.

Minimum

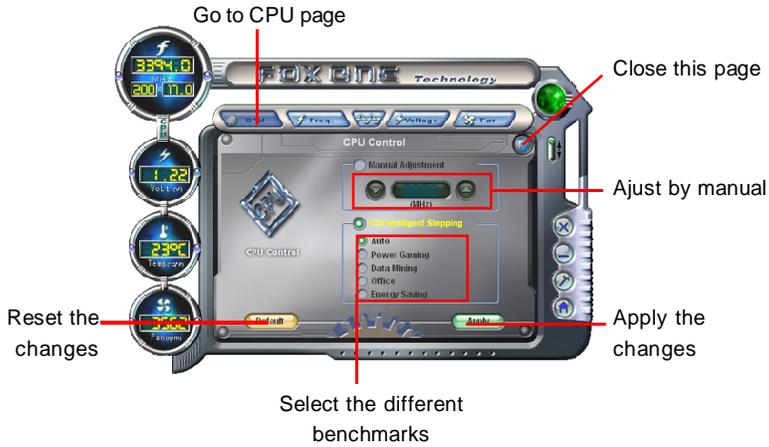Click this button to minimize the window.

Configuration

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

Homepage

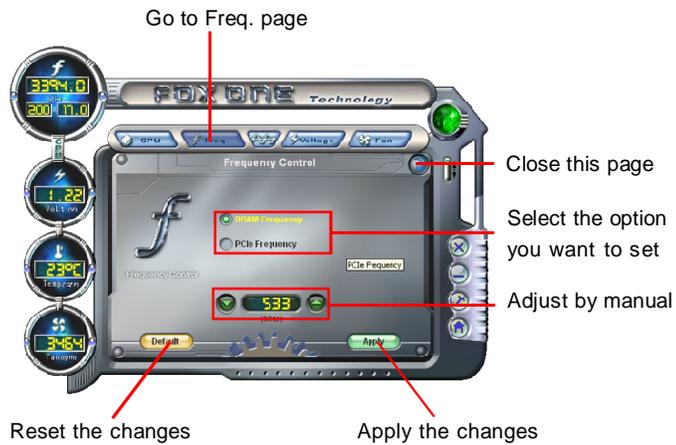Click this button to visit Foxconn motherboard website.

2. CPU Page - CPU Control

This page lets you select and run the FOX 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.
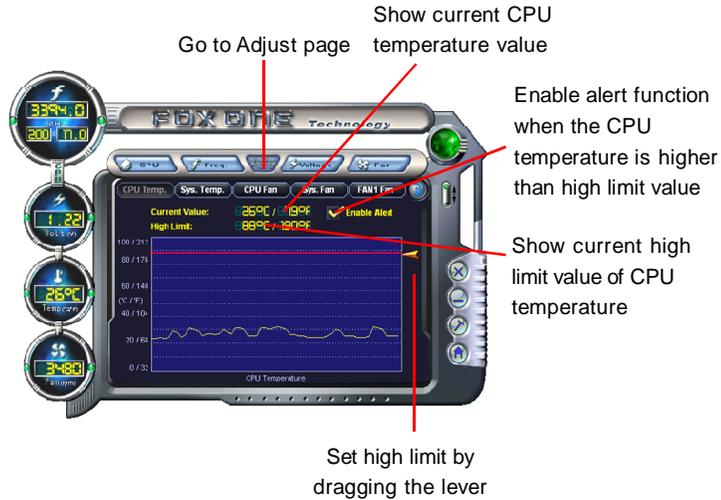
Go to CPU page

Close this page

Ajust by manual

Apply the
changes

Reset the
changes

Select the different
benchmarks

3. Freq. Page - Frequency Control
This page lets you set memory and PCI Express frequency by manual.

Go to Freq. page

Close this page

Select the option
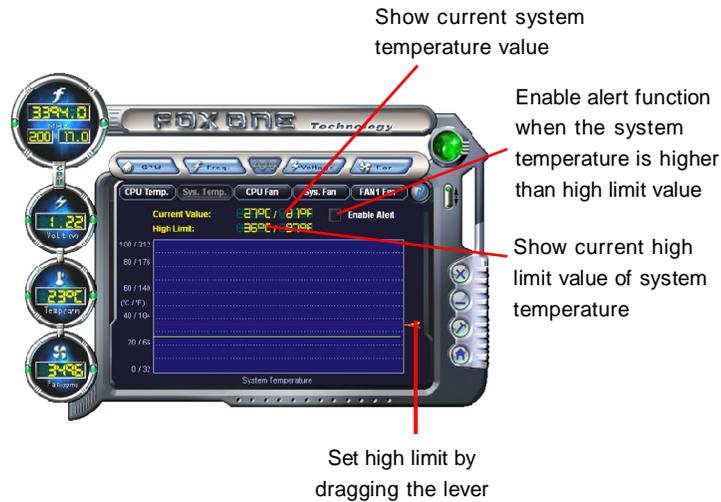you want to set

Adjust by manual

Reset the changes   Apply the changes

4.1 Limit Setting - CPU Temp.

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

Show current CPU temperature value

Go to Adjust page

Enable alert function when the CPU temperature is higher than high limit value

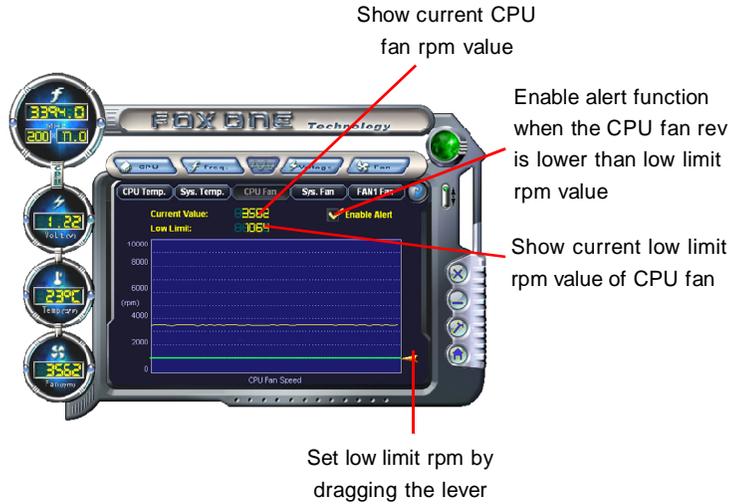Show current high limit value of CPU temperature

Set high limit by dragging the lever

4.2 Limit Setting - Sys Temp.

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

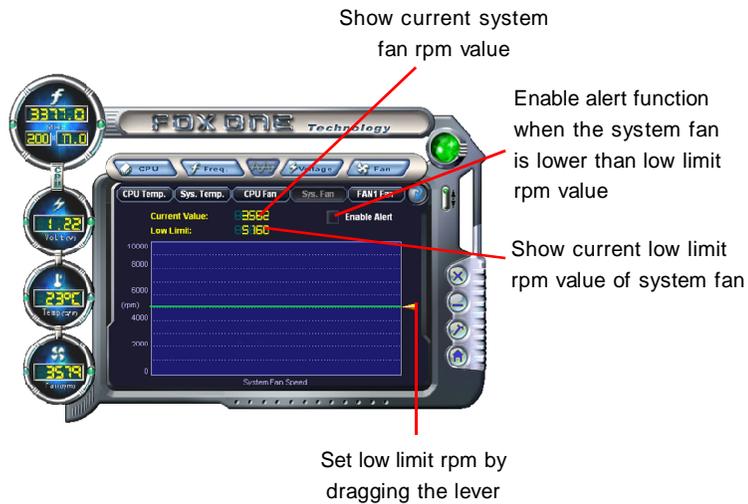Show current system temperature value

Enable alert function when the system temperature is higher than high limit value

Show current high limit value of system temperature

Set high limit by dragging the lever

4.3 Limit Setting - CPU Fan

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

Show current CPU
fan rpm value
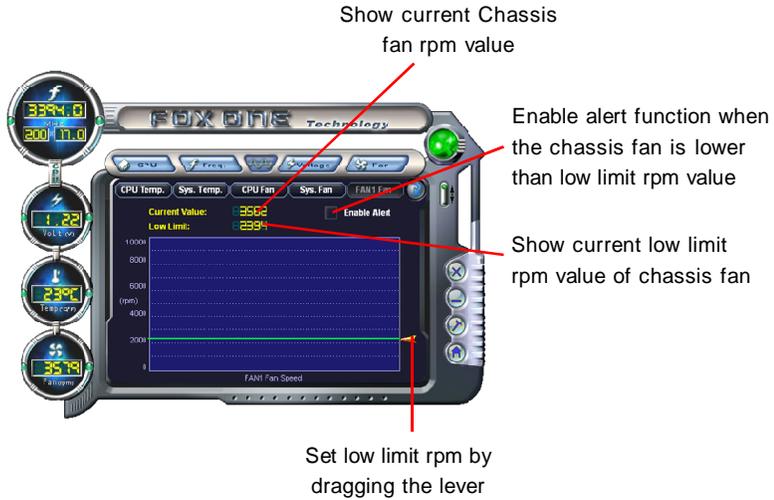
Enable alert function
when the CPU fan rev
is lower than low limit
rpm value

Show current low limit
rpm value of CPU fan

Set low limit rpm by
dragging the lever

4.4 Limit Setting - Sys Fan

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

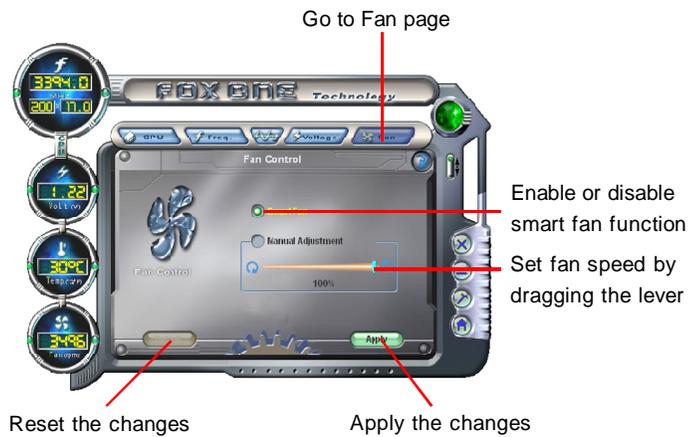Show current system
fan rpm value

Enable alert function
when the system fan
is lower than low limit
rpm value

Show current low limit
rpm value of system fan

Set low limit rpm by
dragging the lever

4.5 Limit Setting - Chassis Fan

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

Show current Chassis
fan rpm value

Enable alert function when
the chassis fan is lower
than low limit rpm value

Show current low limit
rpm value of chassis fan

Set low limit rpm by
dragging the lever

5. Fan Page - Fan Control

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

Go to Fan page

Enable or disable
smart fan function

Set fan speed by
dragging the lever

Reset the changes   Apply the changes

Fox LiveUpdate

Fox LiveUpdate is a useful utility for backuping and updating the system BIOS, drivers and utilities by local or online.
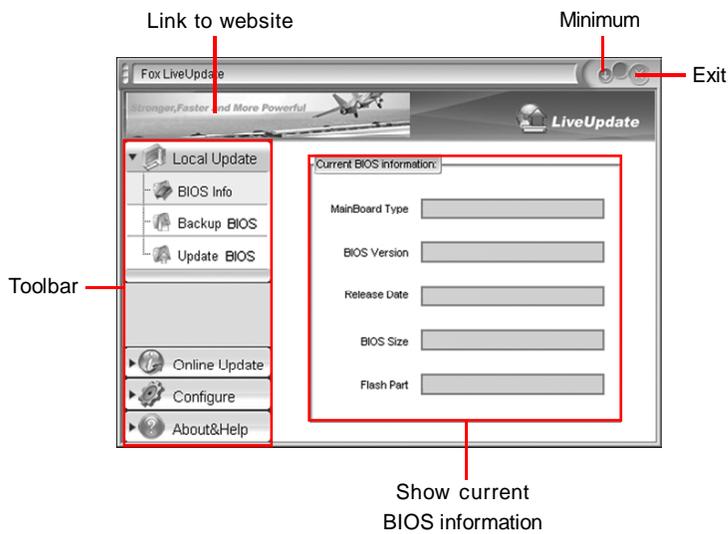
Supported Operating Systems:
　-Windows 2000
　-Windows XP (32-bit and 64-bit)
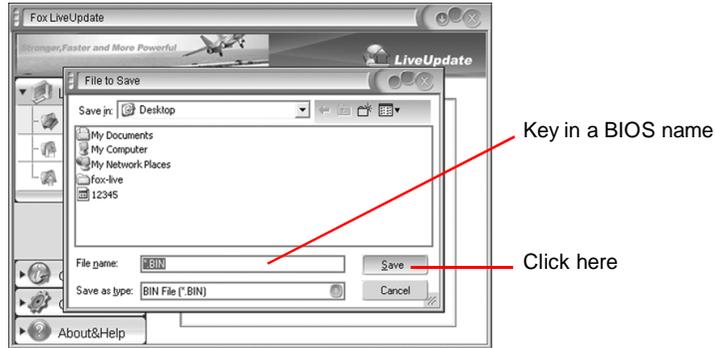　-Windows 2003 (32-bit and 64-bit)

Using Fox LiveUpdate:

1.1 Local Update - BIOS Info.
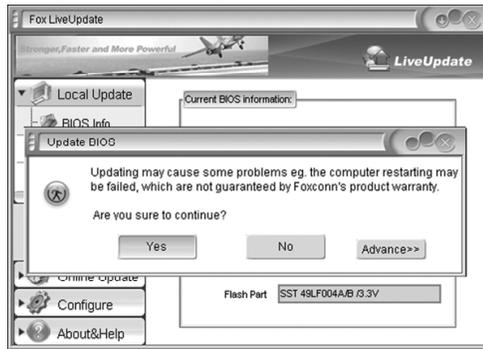
This page lets you know your system BIOS information.

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.

Key in a BIOS name

Click here

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.
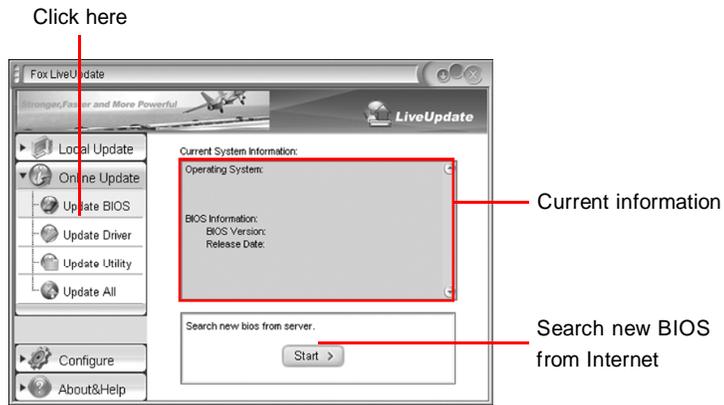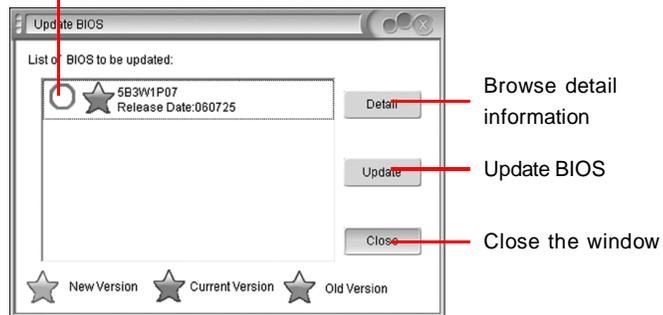

Note:

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.
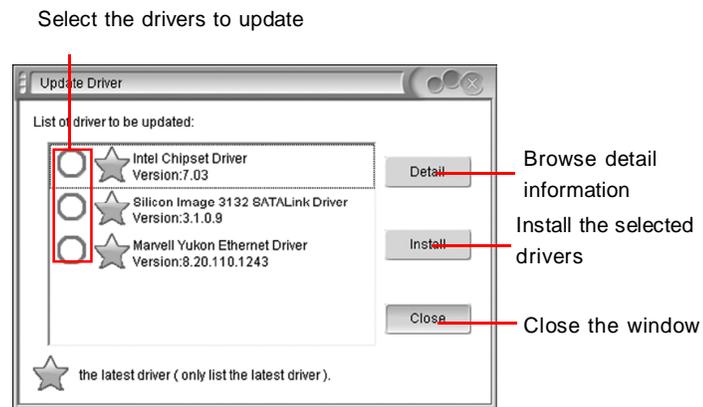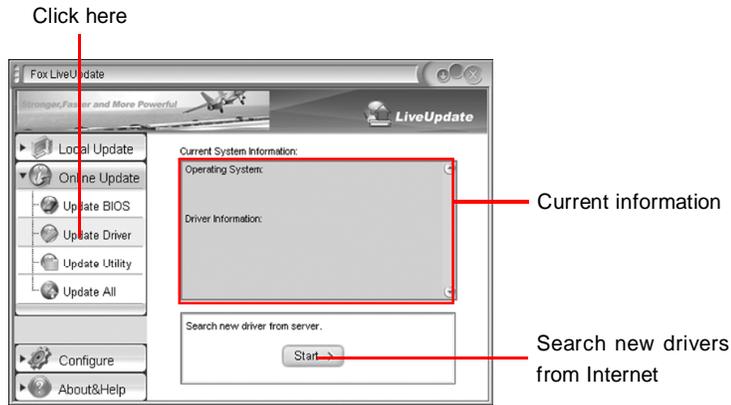
Click here

Current information

Search new BIOS from Internet

Select BIOS to update

Browse detail information
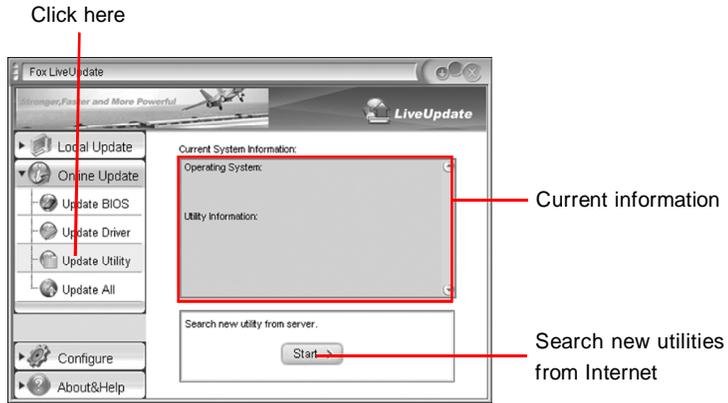
Update BIOS

Close the window

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

Current information

Search new drivers from Internet

Select the drivers to update

Browse detail information

Install the selected drivers

Close the window

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.

Click here

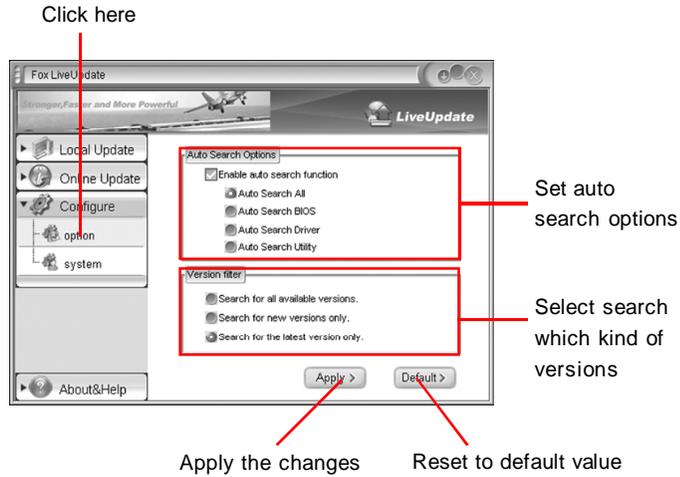Current information

Search new utilities from Internet

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.

Click here

Current information

Search all new BIOS/drivers/utilities from Internet
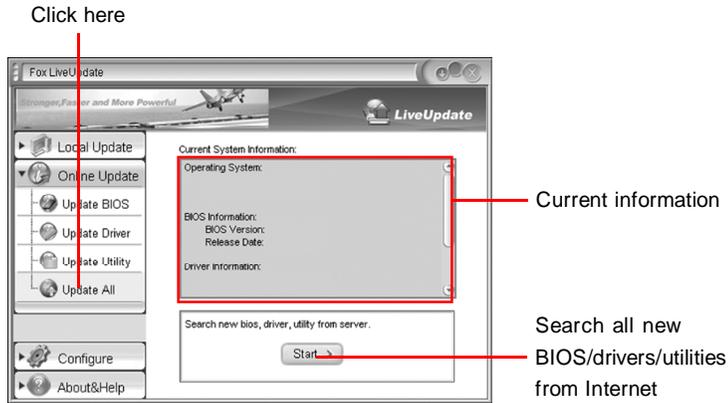
3.1 Configure - option

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.

Click here

Set auto search options

Select search which kind of versions
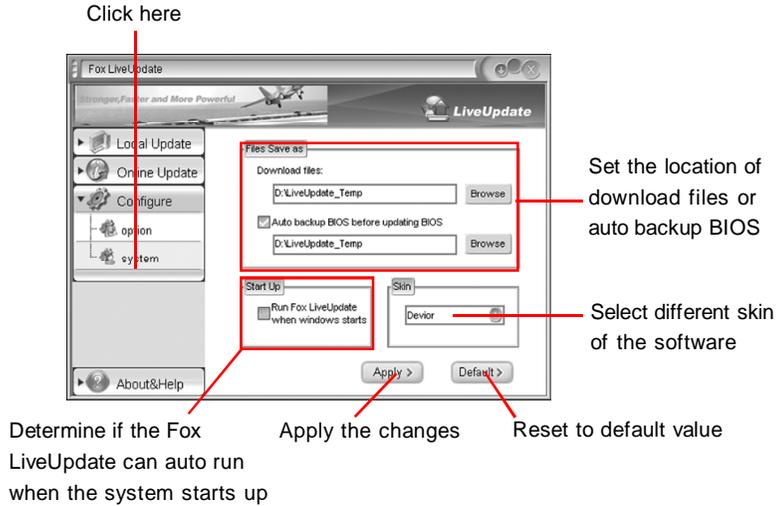
Apply the changes　　　Reset to default value

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.

Double click here
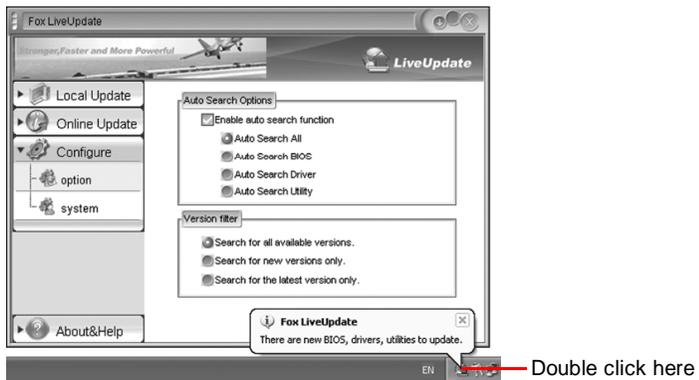
3.2 Configure - System

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

Click here

Set the location of
download files or
auto backup BIOS

Select different skin
of the software

Determine if the Fox
LiveUpdate can auto run
when the system starts up

Apply the changes

Reset to default value

4. About & Help

This page shows some information about Fox LiveUpdate.

Click here

Show information
about Fox LiveUpdate