Statement:

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Trademark:

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Version:

User's Manual V1.0 for P35AX Series motherboard.

Symbol description:

Note: refers to important information that can help you to use motherboard better.

Attention: indicates that it may damage hardware or cause data loss, and tells you how to avoid such problems.

Warning: means that a potential risk of property damage or physical injury exists.

More information:

If you want more information about our products, please visit Foxconn's

website: http://www.foxconnchannel.com

Declaration of conformity

CE

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

P35AX/P35AX-S

is in conformity with

(reference to the specification under which conformity is declared in

accordance with 89/336 EEC-EMC Directive)

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

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

Part 3: Limits

Section 2: Limits for harmonic current emissions

(equipment input current <= 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/A2:2003 Information technology equipment-Immunity characteristics limits and methods of measurement

Signature :　　　　　　　　　　　Place / Date :　TAIPEI/2007

Printed Name :　James Liang　　　Position/ Title :　Assistant President

Declaration of conformity

FC

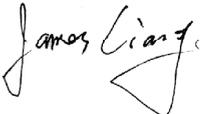Trade Name: FOXCONN

Model Name: P35AX/P35AX-S

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 :   2007

Table of Contents

Chapter ❶   **Main Features**

Chapter ❷   **BIOS Description**

Chapter ❸   **Directions for Bundled Software**

ⓘ **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 damaging the motherboard and CPU due to high temperature.
3. Never turn on the computer 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 upgrated 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.

ⓘ **Attention:**

Please visit the Foxconn global English website (**http://www.foxconnchannel.com**) to download the latest BIOS file and drivers for this motherboard.

Chapter **1**

Thank you for buying Foxconn's P35AX 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 Intel® P35 + ICH9 chipset, providing users a computer platform with a high integration-compatibility-performance price ratio.

This chapter includes the following information:

- ❖ Specifications
- ❖ Jumpers

Specifications - - English

Size	• ATX form factor : 305mm x 208mm
CPU	• LGA775 socket for Intel® Core™ 2 Quad, Core™ 2 Extreme, Core™ 2 Duo, Pentium® Dual-Core E2xxx, Celeron® 4xx, Pentium® 4 Extreme Edition, Pentium® D, Pentium® 4 processors • Supports Hyper-Threading Technology
Chipset	• Northbridge: Intel® P35 • Southbridge: Intel® ICH9
Front Side Bus	• 1333/1066/800 MHz
Memory	• 2 x 240-pin DIMM slots • Supports Dual-Channel DDR2 800/667 • Supports up to 4GB
Expansion Slots	• 2 x PCI Express x16 slots • 1 x PCI Express x1 slot • 3 x PCI slots
Audio	• Realtek 6-channel Audio CODEC / Realtek 8-channel Audio CODEC • Supports S/PDIF output, Jack-Sensing function,Intel® High Definition Audio
LAN	• Realtek 10/100Mb/s LAN Controller / Realtek Gigabit LAN Controller
Storage	• 4 x SATA 300MB/s devices • 2 x Ultra DMA 133/100/66 devices • 1 x eSATA 300MB/s device
Rear Panel I/O	• 1 x PS/2 Mouse Port • 1 x PS/2 Keyboard Port • 1 x Serial Port(COM1) • 1 x Parallel Port • 1 x Coaxial S/PDIF Output Port • 1 x eSATA Port • 4 x USB 2.0 Ports • 1 x RJ45 LAN Port • 6/8-channel Audio Ports

Internal I/O Connectors	• 4 x USB 2.0 headers(supports 8 USB 2.0 ports) • 4 x SATA connectors • 1 x Floppy connector • 1 x IDE connector • 1 x Chassis intruder header(INTR) (optional) • 1 x CD_IN header • 1 x Speaker header (optional) • 1 x COM2 header (optional) • 1 x Front Audio connector • 1 x 24-pin ATX Power Connector • 1 x 8-pin ATX_12V Power Connector • 1 x IrDA header (optional) • 1 x CPU Fan connector • 1 x System Fan connector • 2 x Other Fan connectors • Front panel connector
Support CD	• Driver • Utility

• Specifications are subject to change without notice

产品规格--简体中文

尺寸	· **ATX** 结构：**305mm x 203mm**
中央处理器	· 支持采用 **LGA775** 封装的 **Intel® Core™ 2 Quad, Core™ 2 Extreme, Core™ 2 Duo, Pentium® Dual-Core E2xx, Celeron® 4xx, Pentium® 4 Extreme Edition, Pentium® D, Pentium® 4** 处理器 · 支持 **Hyper-Threading** 技术
芯片组	· 北桥：**Intel® P35** · 南桥：**Intel® ICH9**
系统总线	· **1333/1066/800 MHz**
内存	· **2** 个 **240** 针脚内存插槽 · 支持双通道 **DDR2 800/667** · 内存总容量最大可达 **4GB**
扩展槽	· **2** 个 **PCI Express x16** 插槽 · **1** 个 **PCI Express x1** 插槽 · **3** 个 **PCI** 插槽
音频	· **Realtek 6** 声道音频编解码器/ **Realtek 8** 声道音频编解码器 · 支持 **S/PDIF** 输出，**Jack-Sensing** 功能，**Intel® High Definition Audio**
LAN	· **Realtek 10/100 Mb/s LAN Controller**/ **Realtek Gigabit LAN Controller**
存储	· **4** 个 **SATA 300MB/s** 设备 · **2** 个 **Ultra DMA 133/100/66** 设备 · **1** 个 **eSATA 300MB/s** 设备

后面板I/O	·**1** 个 **PS/2** 鼠标接口 ·**1** 个 **PS/2** 键盘接口 ·**1** 个 串行接口（**COM1**） ·**1** 个 并行接口 ·**1** 个 同轴 **S/PDIF** 数码音频输出接口 ·**1** 个 **eSATA** 接口 ·**4** 个 **USB 2.0** 接口 ·**1** 个 **RJ45** 网络接口 ·**6/8** 声道音频接口
内置连接器	·**4** 个 **USB 2.0** 接头（提供 **8 USB 2.0** 接口） ·**4** 个 **SATA** 接头 ·**1** 个 软驱接口 ·**1** 个 **IDE** 接口 ·**1** 个 机箱开启侦测接头（选配） ·**1** 个 **CD_IN** 接头 ·**1** 个 **Speaker** 接头（选配） ·**1** 个 **COM2** 接头（选配） ·**1** 个 前置音频接头 ·**1** 个 **24** 针 **ATX** 电源接口 ·**1** 个 **8** 针 **ATX_12V** 电源接口 ·**1** 个 红外线通讯接头（选配） ·**1** 个 **CPU** 风扇接头 ·**1** 个 系统风扇接头 ·**2** 个 其它风扇接头**(FAN1, FAN2)** ·前端面板接头
实用程序光盘	·驱动程序 ·应用程序

·规格若有任何更改，恕不另行通知

Technische Daten--*Deutsch*

Größe	• ATX-Formfaktor: 305 mm x 208 mm
CPU	• LGA775-Sockel für Intel®_ CoreTM 2 Quad-, CoreTM 2 Extreme-, CoreTM 2 Duo-, Pentium®_Dual-Core E2xxx-, Celeron®_4xx-, Pentium®_4 Extreme Edition-, Pentium®_D- Pentium®_4-Prozessoren • Unterstützt Hyper-Threading-Technologie
Chipsatz	• Northbridge: Intel P35 • Southbridge: ICH9
Front Side Bus	• 1333/1066/800 MHz
Speicher	• 2 x 240-polige DIMM-Steckplätze • Unterstützt Dual-Channel DDR2 800/667 • Unterstützt bis 4 GB
Erweiterungs steckplätze	• 2 x PCI Express x16-Steckplätze • 1 x PCI Express x1-Steckplatz • 3 x PCI-Steckplätze
Audio	• Realtek 6-Kanal-Audio CODEC / Realtek 8-Kanal-Audio CODEC • Unterstützt S/PDIF-Ausgang, Anschlusserkennung, Intel® High Definition Audio
LAN	• Realtek 10/100 Mb/s LAN / Realtek Gigabit LAN
Speichergeräte	• 4 x SATA-Geräte, 300 MB/s • 2 Ultra DMA 133/100/66-Geräte • 1 x eSATA 300MB/s Gerät

I/O-Anschlüsse an der Rückseite	• 1 x PS/2-Mausanschluss • 1 x PS/2-Tastaturanschluss • 1 x Seriellanschluss(COM1) • 1 x Parallelanschluss • 1 x Koaxialer S/PDIF-Ausgang-Port • 1 x eSATA-Port • 4 x USB 2.0-Ports • 1 x RJ45-LAN-Port • 6/8-Kanal-Audio-Ports
Interne I/O-Anschlüsse	• 4 x USB 2.0-Anschlussleisten (Unterstützung für 8 USB 2.0-Ports) • 4 x SATA-Anschlüsse • 1 x Diskettenlaufwerkanschluss • 1 x IDE-Anschluss • 1 x Gehäuse-offen-Anschluss (INTR)(optional) • 1 x CD_IN-Anschluss • 1 x Lautsprecher-Anschluss(optional) • 1 x COM2-Anschluss(optional) • 1 x Front-Audio-Anschluss • 1 x ATX Power, 24-polig-Anschluss • 1 x ATX_12V Power, 8-polig-Anschluss • 1 x IrDA-Anschluss(optional) • 1 x CPU-Lüfter-Anschluss • 1 x Systemlüfter-Anschluss • 2 x Anderer Lüfter-Anschlüsse • Frontbedienfeld-Anschluss
Support-CD	• Treibe • Dienstprogramme

• Angaben können sich ohne Vorankündigung ändern.

Características--*Español*

Tamaño	• ATX factor de forma: 305mm x 208mm
CPU	• Conector LGA775 para procesadores Intel® CoreTM 2 Quad, CoreTM 2 Extreme, CoreTM 2 Duo, Pentium® Dual-Core E2xxx, Celeron® 4xx, Pentium® 4 Extreme Edition, Pentium® 4, Pentium® D • Compatible con Hyper-Threading
Conjunto de chips	• Northbridge: Intel P35 • Southbridge: ICH9
Bus frontal	• 1333/1066/800 MHz
Memoria	• 2 x ranuras DIMM de 240-pin • Compatible DDR 2 de doble canal 800/667 • Compatible con hasta 4GB
Ranuras de expansión	• 2 x ranuras PCI Express x16 • 1 x ranura PCI Express x1 • 3 x ranuras PCI
Audio	• Realtek 6 canales Audio CODEC / Realtek 8canales Audio CODEC • Compatible salida S/PDIF, sensible a conexión, sonido Intel® de Alta Definición
LAN	• Realtek 10/100 Mb/s LAN / Realtek Gigabit LAN
Almacenamiento	• 4 x dispositivos SATA 300MB/s • 2 x dispositivos Ultra DMA 133/100/66 • 1 x dispositivo eSATA 300MB/s

Panel de E/S trasero	• 1 x Puerto de ratón PS/2 • 1 x Puerto de teclado PS/2 • 1 x Puerto Serie(COM1) • 1 x Puerto Paralelo • 1 x Puerto de salida coaxial S/PDIF • 1 x Puerto de eSATA • 4 x Puertos USB 2.0 • 1 x Puerto LAN RJ45 • Puertos 6/8 canales Audio
Conectores internos de E/S	• 4 x Cabeceras USB 2.0 (admite 8 puertos USB 2.0) • 4 x Conectores SATA • 1 x Conector de disco flexible • 1 x Conector de IDE • 1 x Cabecera de intrusos en bastidor (INTR)(opcional) • 1 x Cabecera de CD_IN • 1 x Cabecera de altavoz(opcional) • 1 x Conector de COM2 (opcional) • 1 x Conector de Audio frontal • 1 x Conector de 24-pin ATX Power • 1 x Conector de 8-pin ATX_12V Power • 1 x Cabecera de IrDA(opcional) • 1 x Conector de Ventilador de CPU • 1 x Conector de Ventilador Sistema • 2 x Conector de Otro ventilador • Conector de panel frontal
CD de soporte	• Controlador • Utilidades

• Las características se encuentran sujetas a cambios sin aviso previo.

Especificações--*Portugués*

Tamanho	• Factor de forma ATX de 305 x 208 mm
CPU	• Socket LGA775 para processadores Intel®_CoreTM 2 Quad, CoreTM 2 Duo, CoreTM 2 Extreme, Pentium®_Dual-Core E2xxx, Celeron®_4xx, Pentium®_4 Extreme Edition, Pentium®_D, Pentium®_4 • Suporta a tecnologia Hyper-Threading
Chipset	• Northbridge: Intel P35 • Southbridge: ICH9
FSB(Front Side Bus)	• 1333/1066/800 MHz
Memória	• 2 ranhuras DIMM de 240 pinos • Suporta módulos de memória DDR2 800/667 de canal duplo • Suporta até 4 GB
Ranhuras de expansão	• 2 ranhuras PCI Express x16 • 1 ranhura PCI Express x1 • 3 ranhuras PCI
Áudio	• Realtek 6 canais, codec de áudio / Realtek com 8 canais, codec de áudio • Suporta saída S/PDIF, função Jack-Sensing, áudio de alta definição da Intel®
LAN	• Realtek 10/100 Mb/s LAN / Realtek Gigabit LAN
Armazenamento	• 4 dispositivos SATA de 300 MB/s • 2 dispositivos Ultra DMA 133/100/66 • 1 dispositivo eSATA 300MB/s

Entrada/Saída pelo painel traseiro	• 1 x Porta para rato PS/2 • 1 x Porta para Teclado PS/2 • 1 x Porta série (COM1) • 1 x Porta paralela • 1 x Porta saída S/PDIF coaxial • 1 x Porta eSATA • 4 x Portas USB 2.0 • 1 x Porta LAN RJ45 • Portas 6/8 canais, áudio
Conectores internos de entrada/saída	• 4 x Conectores USB 2.0 (para 8 portas USB 2.0) • 4 x Conectores SATA • 1 x Conector da unidade de disquetes • 1 x Conector IDE • 1 x Conector para detecção de intrusão no chassis(INTR) (opcional) • 1 x Conector CD_IN • 1 x Conector de altifalante (opcional) • 1 x Conector da COM2 (opcional) • 1 x Conector Áudio frontal • 1 x Conector de alimentação ATX de 24 pinos • 1 x Conector de alimentação ATX de 8 pinos e de 12 V • 1 x Conector IrDA (opcional) • 1 x Conector da ventoinha da CPU • 1 x Conector ventoinha do sistema • 2 x Conectores Outra ventoinha • Conector de painel frontal
CD de suporte	• Controlador • Utilitários

• As especificações estão sujeitas a alteração sem aviso prévio.

Specifiche- *-Italiano*

Dimensioni	• Formato ATX: 305 mm x 208 mm
CPU	• Socket LGA775 per processori Intel® CoreTM 2 Quad, CoreTM 2 Extreme, CoreTM 2 Duo, Pentium® Dual-Core E2xxx, Celeron® 4xx, Pentium® 4 Extreme Edition, Pentium® D, Pentium® 4 • Supporto tecnologia Hyper-Threading
Chipset	• Northbridge: Intel P35 • Southbridge: ICH9
FSB (Front Side Bus)	• 1333/1066/800 MHz
Memoria	• 2 alloggi DIMM 240 pin • Supporto DDR2 800/667 Dual-Channel • Supporto fino a 4GB
Alloggi d'espansione	• 2 Alloggi PCI Express x16 • 1 Alloggio PCI Express x1 • 3 Alloggi PCI
Audio	• Realtek 6-canali audio CODEC / Realtek 8-canali audio CODEC • Supporto output S/PDIF, funzione di rilevamento connettori, Intel® High Definition Audio
LAN	• Realtek 10/100 Mb/s LAN / Realtek Gigabit LAN
Archivio	• 4 dispositivi SATA 300MB/s • 2 dispositivi Ultra DMA 133/100/66 • 1 dispositivo eSATA 300MB/s

Pannello posteriore I/O	• 1 x Porta mouse PS/2 • 1 x Porta tastiera PS/2 • 1 x Porta Seriale (COM1) • 1 x Porta Parallela • 1 x Porta output coassiale S/PDIF • 1 x Porta eSATA • 4 x Porta USB 2.0 • 1 x Porta LAN RJ45 • Porta 6/8-canali audio
Connettori I/O interni	• 4 x Collettori USB 2.0 (supportano 8 porte USB 2.0) • 4 x Connettori SATA • 1 x Connettore Floppy • 1 x Connettore IDE • 1 x Collettore intrusione telaio (INTR)(optional) • 1 x Collettore CD_IN • 1 x Collettore altoparlante(optional) • 1 x Collettore COM2 (optional) • 1 x Connettore Audio frontale • 1 x Connettore potenza ATX 24 pin • 1 x Connettore potenza ATX_12V 8 pin • 1 x Connettore IrDA(optional) • 1 x Connettore ventolina CPU • 1 x Connettore ventolina di sistema • 2 x Connettori altra ventolina • Connettore pannello frontale
CD di supporto	• Driver • Utilità

• Le specifiche tecniche sono soggette a cambiamenti senza preavviso.

Технические характеристики- *-Русский*

Размер	• Форм-фактор ATX размером 305 x 208 мм
Процессор	• Гнездо LGA775 для процессоров Intel®_ CoreTM 2 Quad, CoreTM 2 Extreme, CoreTM 2 Duo, Pentium®_Dual-Core E2xxx, Celeron®_4xx, Pentium®_4 Extreme Edition, Pentium®_D, Pentium®_4 • Поддержка технологии Hyper-Threading
Набор микросхем	• Северный мост: Intel P35 • Южный мост: ICH9
Частота системной шины	• 1333, 1066, 800 МГц
Память	• 2 240-контактных гнезда DIMM • Поддержка Двухканальная память DDR2 800, 667 • Поддержка до 4 Гб
Слоты расширения	• 2 слота PCI Express x16 • 1 слот PCI Express x1 • 3 слота PCI
Звук	• Realtek 6 каналов, звуковой КОДЕК / Realtek 8 каналов, звуковой КОДЕК • Поддержка Выход S/PDIF, функция определения разъема, поддержка технологии Intel® High Definition Audio
ЛВС	• Realtek ЛВС10/100 Мбит/с / Realtek Gigabit ЛВС
Устройство хранения	• 4 устройства с интерфейсом SATA и скоростью передачи данных 300 Мб/с • 2 устройства с интерфейсом Ultra DMA 133/100/66 • 1 устройство eSATA 300 Мб/с

Входы и выходы на задней панели	• 1 Порт мыши PS/2 • 1 Порт Клавиатура PS/2 • 1 Последовательный порт (COM1) • 1 Параллельный порт • 1 Порт коансианьный выходы S/PDIF • 1 Порт eSATA Port • 4 Порты USB 2.0 • 1 Разъем ЛВС RJ45 • Порты 6, 8 каналов, звуковой
Встроенные входы и выходы	• 4 Разъемы USB 2.0 (поддержка 8 портов USB 2.0) • 4 Разъемы SATA • 1 Разъем дисковода гибких дисков • 1 Разъем IDE • 1 Разъем датчика открывания корпуса (INTR) (дополнительный) • 1 Разъем CD_IN • 1 Разъем Динамик (дополнительный) • 1 Разъем COM2 (дополнительный) • 1 Передний звуковой разъем • 1 Разъем 24-контактный ATX • 1 Разъем 8-контактый ATX_12V • 1 ИК-порт (дополнительный) • 1 Разъем Вентилятор процессора • 1 Разъем системный вентилятор • 2 Разъемы другой вентилятор • Передняя панель разъем
Поддержка компакт-дисков	• Драйвер • Служебная программа

• Технические характеристики могут изменяться без уведомления.

المواصفات- - العربية

الحجم	• حاوية من نوع ATX مقاس 305مم × 208مم
وحدة المعالجة المركزية	• مقبس LGA775 لمعالجات Intel® CoreTM 2 Quad وCoreTM 2 Duo وCoreTM 2 Extreme و Pentium®_Dual-Core E2xxx وCeleron®_4xx وPentium®_4 وPentium®_D و Pentium®_4 Extreme Edition. • دعم تقنية الربط الفائق (Hyper-Threading)
الرقائق	• الجسر الشمالي (Northbridge): Intel P35 • الجسر الجنوبي (Southbridge): ICH9
ناقل الجانب الأمامي	• 800/1066/1333 ميجا هرتز
الذاكرة	• عدد2 فتحات DIMM × 240 دبوسا • دعم التصميم ثنائي القناة Dual-Channel DDR2 800/667 • دعم يصل إلى4 جيجا بايت
فتحات التوسعة	• عدد2 فتحة PCI Express x16 • عدد1 فتحة PCI Express x1 • عدد3 فتحات PCI
الصوت	• ترميز صوتي بست قنوات بتقنية Realtek / ترميز صوتي بثمان قنوات بتقنية Realtek • دعم خرج S/PDIF، وظيفة استشعار المقبس، تقنيةIntel® High Definition Audio
شبكة الاتصال المحلية	• Realtek Gigabit LAN / Realtek 10/100 Mb/s LAN
التخزين	• عدد2 أجهزة Ultra DMA 133/ 100/66 • عدد4 أجهزة SATA 300MB/s • عدد1 جهاز eSATA 300MB/s
منافذ الدخل/الخرج للوحة الخلفية	• عدد1 منفذ ماوس PS/2 • عدد1 منفذ لوحة مفاتيح PS/2 • عدد1 منفذ تسلسلي (COM1) • عدد1 منفذ متوازي • عدد1 منفذ خرج S/PDIFمتحد المحور • عدد1 منفذ eSATA • عدد4 منافذ USB 2.0 • عدد1 منفذ شبكة اتصال محلية RJ45 • منافذ صوتي بست / بثمان قنوات بتقنية

منافذ توصيل الدخل / الخرج الداخلية	• عدد **4** أطراف توصيل USB 2.0 (تدعم **8** منافذ USB 2.0) • عدد **4** منافذ توصيل SATA • عدد **1** منفذ توصيل محرك الأقراص المرنة • عدد **1** منفذ توصيل IDE • عدد **1** طرف توصيل Intruder للهيكل (INTR)(اختياري) • عدد **1** طرف توصيل CD_IN • عدد **1** طرف توصيل السماعة (اختياري) • عدد **1** طرف توصيل COM2(اختياري) • موصل الصوت الأمامي • عدد **1** موصل طاقة ATX ، ء **24** دبوس • عدد **1** موصل طاقة ATX_12V ×**8** دبابيس • عدد **1** طرف توصيل IrDA (اختياري) • عدد **1** مروحة لوحدة المعالجة المركزية • عدد **1**موصل لمروحة النظام • عدد **2** منافذ توصيلمروحة أخرى • موصل اللوحة الأمامية
دعم القرص المدم	• برنامج التشغيل • الأدوات

•قد تتغير المواصفات بدون إخطار مسبق.

Jumpers

This section explains how to setup jumpers. You should read the following content carefully prior to modifying any jumper settings.
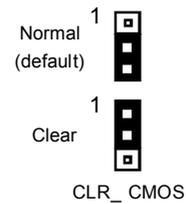
🛈 Attention

> The jumpers on the motherboard, pin 1 can be identified by the bold silkscreen next to it. and in this manual, pin 1 is simply labeled as "1".

Clear CMOS Jumper: CLR_CMOS

The CLR_CMOS jumper allows you to clear the data in CMOS. The data includes system setup information such as system password, data, time, and system setup parameters. To clear and reset the system parameters to default setup, please do as follows:

1. Turn off the computer and unplug the power cord from the power supply.
2. Move the jumper cap from pins 2-3 (default) to pins 1-2. Keep the cap on pins 1-2 for several seconds, then move the cap back to pins 2-3.
3. Plug the power cord and turn on the computer.

Normal
(default)

1

Clear

1

CLR_ CMOS

Chapter**2**

This chapter introduces 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 BIOS Features
- ❖ Fox Central Control Unit
- ❖ Boot Configuration Features
- ❖ Advanced BIOS Features
- ❖ PCI/PNP Resource Management
- ❖ Power Management Features
- ❖ Hardware Health Configure
- ❖ BIOS Security Features
- ❖ Load Optimal Defaults
- ❖ Load Failsafe Defaults
- ❖ Save Changes and Exit
- ❖ Discard Changes and Exit

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 BIOS CMOS Setup Utility.
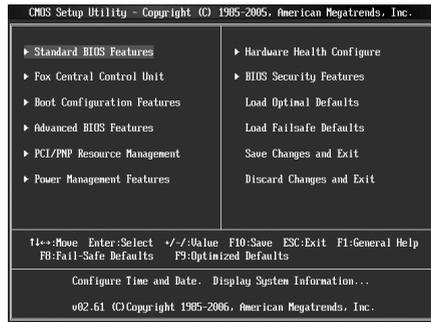
Press TAB to show POST Screen, DEL to enter SETUP.

✔ 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 displays a list of options that are available. Use the arrow keys to select among the items, when the correlative information of the the items will appear at the bottom, and execute the sub-menu by pressing <Enter>.


```
CMOS Setup Utility - Copyright (C) 1985-2005, American Megatrends, Inc.

▶ Standard BIOS Features          ▶ Hardware Health Configure

▶ Fox Central Control Unit        ▶ BIOS Security Features

▶ Boot Configuration Features       Load Optimal Defaults

▶ Advanced BIOS Features            Load Failsafe Defaults

▶ PCI/PNP Resource Management       Save Changes and Exit

▶ Power Management Features         Discard Changes and Exit


↑↓←→:Move  Enter:Select  +/-/:Value  F10:Save  ESC:Exit  F1:General Help
  F8:Fail-Safe Defaults    F9:Optimized Defaults

        Configure Time and Date. Display System Information...

        v02.61 (C)Copyright 1985-2006, American Megatrends, Inc.
```

Main Menu

The items in the main menu are explained as below:

1. Standard BIOS Features

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

2. Fox Central Control Unit

The special features can be set up by this menu.

3. Boot Configuration Features

This menu is used for Boot setting.

4. Advanced BIOS Features

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

5. PCI/PNP Resource Management

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

6. Power Management Features

Through this menu you can set up all the items of Green function features.

7. Hardware Health Configure

This menu will display the current status of your PC.

8. BIOS Security Features

The user password can be set up through this menu.

9. Load Optimal Defaults

You can load the optimal performance settings by this menu, however,the stable default values may be affected.

10. Load Failsafe Defaults

You can load the Failsafe default BIOS settings through this menu.
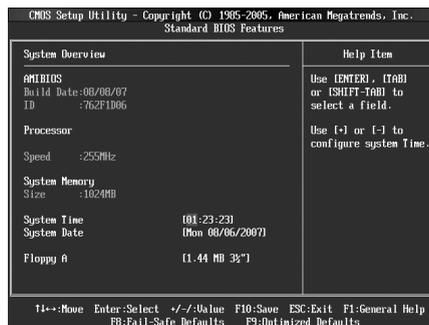
11. Save Changes and Exit

Save CMOS value settings to CMOS and exit setup.

12. Discad Changes and Exit

Abandon all CMOS value changes and exit setup.

1.Standard BIOS Features

This sub-menu is used to set up the standard BIOS parameters, such as the date, time, floppy driver and so on. Select the item by the arrow keys, and then use the <+> or <-> keys to choose the setting values.

Standard BIOS Features Menu

AMIBIOS/Processor/System Memory

These items show the information of the AMIBIOS/system processor and the system memory detemined by POST of the BIOS.

1.1 System Time/System Date

This item allows you to set up the desired time and date format (usually as the current time and date) with <hour><minute><second><day><month> <date><year> format.

Day—weekday from Sun. to Sat.

Month—month from 1 to 12

Date—date from 1st to 31st
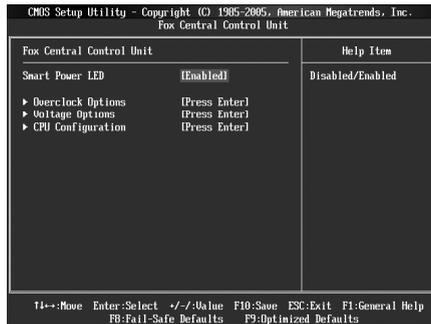
Year—year, set up by users.

Use <ENTER>,<TAB> or <SHIFT+TAB]>to select a field.Use <+>or <-> to configure system time and date.

1.2 Floppy A

This option allows you to select the kind of FDD to be installed, including [none],[360K, 5^1/4 in], [1.2M, 5^1/4in], [720K, 3^1/2 in], [1.44M, 3^1/2 in] and [2.88 M, 3^1/2 in].
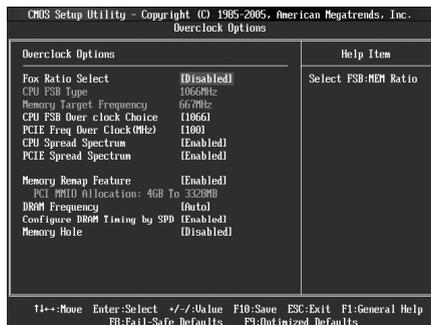
2.Fox Central Control Unit

Fox central control Unit Menu

2.1 Smart power LED

Enable this function, the smart LED can show the system status of POST process.

2.2 Overclock Options

Overclock Options Menu

Fox Ratio Select

Use it to enabled or disabled the Fox Ratio selection.

CPU FSB Type

This item shows the CPU FSB type.

Memory Target Frequency

This item shows the memory target frequency.

CPU FSB Over clock Choice

This item is used to program the CPU FSB.

PCIE Freq Over Clock(MHz)

This item is used to adjust the PCI slot frequency.

CPU Spread Spectrum

This item is used to set the CPU spread spectrum functions.

NOTE: The Spread Spectrum function can influence the EMI degree.

PCIE Spread Spectrum

This item is used to set the PCIE spread spectrum functions.

NOTE: The Spread Spectrum function can influence the EMI degree.

Memory Remap Feature

This item is used to set the memory remap feature.

DRAM Frequency

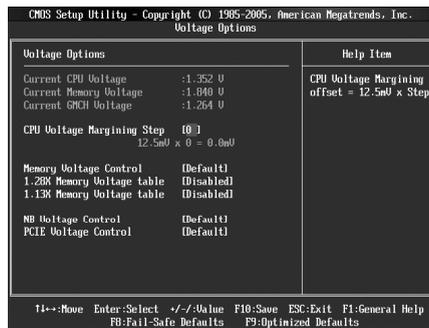This item is used to adjust the DRAM frequency.

Configure DRAM Timing by SPD

This item is used to configure DRAM timing by SPD.

Memory Hole

This item is used to set the memory hole.

2.3 Voltage Options

Voltage Options Menu

Current CPU Voltage/Current Memory Voltage/Current GMCH Voltage

These items show the current CPU/Memory/GMCH voltage.

CPU Voltage Margining Step

This item is used to set the CPU voltage margining offset. Every voltage margining step is 0.0125V.

Memory Voltage Control

This item is used to change the voltage of memory group.

1.28X Memory Voltage Table

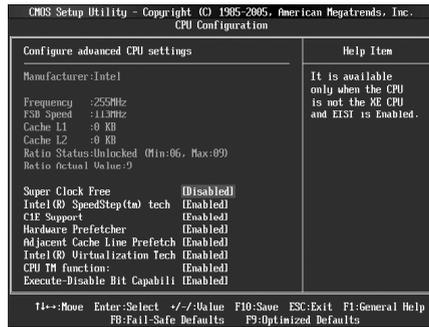This item is used to enable or disable 1.28X for memory voltage.

1.13X Memory Voltage Table

This item is used to enable or disable 1.13X for memory voltage.

NB/PCIE Voltage Control

This item is used to set the NB/PCIE voltage control.

2.4 CPU Configuration

CPU Configuration menu

Manufacturer/Frequency/FSB Speed/Cache L1/Cache L2/Ratio Status/Ratio Actual Value

These items show the related information of the CPU that used on the motherboard.

Super Clock Free

This item is used for the Super Clock Free technology.

It is available only when the CPU is not the XE CPU and EIST is enabled.

Intel(R) SpeedStep(tm) tech.

This item is used for the Intel speed step technology.

[Maximum]: CPU speed is set to maximum.

[Minimum]: CPU speed is set to minimum.

[Automatic]: CPU speed controlled by operating system.

[Disabled]: default CPU speed.

C1E Support

This item is used to set the C1E support. It should be enabled in order to enable or disable the "Enhanced Halt State".

Hardware Prefetcher

This item is used to enable or disable the hardware prefetcher function.

Adjacent Cache Line prefetch

This item is used to enable or disable the Adjacent Cache Line prefetch function.

Intel(R) Virtualization Tech

This item is used to enable or disable Intel Virtualization Technology.
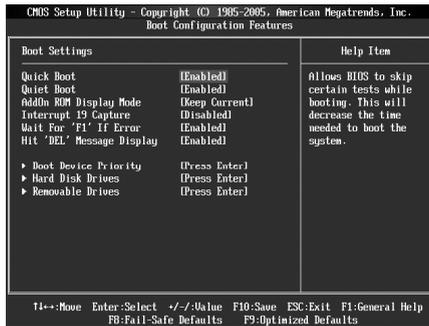
CPU TM function

This item is used to enable or disable CPU TM function. For the processorits CPUID belows 0F41h.

Execute-Disable Bit Capabili

This item allows you to enable or disable the Execute Disable Bit feature. Execute Disable Bit capability is a robust hardware feature, detectable using the CPUID instruction, which protects against malicious software executing code on IA-32 systems.

3. Boot Configuration Features

Boot Configuration Features Menu

3.1 Quick Boot

While Enabled, this option allows BIOS to skip certain tests while booting, this will decrease the time needed to boot the system.

3.2 Quiet Boot

This item is used to enable or disable the quiet boot.
[Disabled]: Displays normal POST messages.
[Enabled]: Displays OEM Logo instead of POST messages.

3.3 AddOn ROM Display Mode

This item is used to set the display mode for option ROM. When "Quiet Boot" is enabled, this option controls whether output from the option ROM is displayed. The available setting values are: Force BIOS; Keep Current.

3.4 Interrupt 19 Capture

This item, when enabled, allows option ROMs to trap interrupt 19.

3.5 Wait For 'F1' If Error

This item is used to set whether to wait for 'F1' key to be pressed if error occurs. Enabling this option causes the system to pause the POST if it encounters an error, and wait for user to press the 'F1' key before resuming.

3.6 Hit 'DEL' Message Display

This item is used to set whether to show the information about press <DEL> to run BIOS setup in POST.

3.7 Boot Device Priority

This option is used to select the priority for devices. After pressing <Enter>, you can select the devices using the Up/Down arrow keys, and change the devices priority using <+> or <->; you can exit this menu by pressing <Esc>.
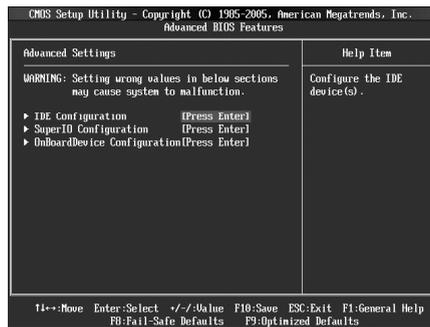
3.8 Hard Disk Drives

This is used to specify the Boot Device priority for available Hard Disk Drives.

3.9 Removable Drives

This option is used to specify the Boot Device priority sequence from available removable drives.

4.Advanced BIOS Features

Advanced BIOS Features Menu

Use the arrow keys to select the options and press <Enter> to enter it.

4.1 IDE Configuration

This sub-menu is used for the configuration of IDE/SATA devices. You can press <Enter> to set the available values of items.

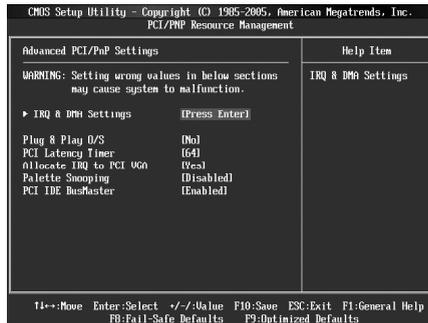**NOTE: The Netghost can not be used on SATA 1 and SATA 2 ports.**

4.2 SuperIO Configuration

This sub-menu is used for the configuration of I/O devices, such as Floppy, Serial Port, Parallel Port and so on.

4.3 OnBoardDevice Configuration

This sub-menu is used for the configuration of onboard devices, such as USB controller, Graphic Adapter, HDA controller, PEG port and so on.

5.PCI/PNP Resource Management

CMOS Setup Utility - Copyright (C) 1905-2005, American Megatrends, Inc.
PCI/PNP Resource Management

Advanced PCI/PnP Settings		Help Item
WARNING: Setting wrong values in below sections may cause system to malfunction.		IRQ & DMA Settings
▶ IRQ & DMA Settings	[Press Enter]	
Plug & Play O/S	[No]	
PCI Latency Timer	[64]	
Allocate IRQ to PCI VGA	[Yes]	
Palette Snooping	[Disabled]	
PCI IDE BusMaster	[Enabled]	

↑↓←→:Move Enter:Select +/-/:Value F10:Save ESC:Exit F1:General Help
F8:Fail-Safe Defaults   F9:Optimized Defaults

PCI/PNP Resource Management Menu

5.1 IRQ & DMA Settings

Press <Enter> to enter the IRQ and DMA setup. The available setting values:
IRQ 3/4/5/7/9/10/11/14/15, DMA Channel 0/1/3/5/6/7.

5.2 Plug & Play O/S

This item is used to set the plug and play function for your OS.

[No]: Lets the BIOS configure all the devices in the system.

[Yes]: Lets the operating system configure plug and play devices not required for boot if your system has a plug and play operating system.

5.3 PCI Latency Timer

This item is used to set the PCI latency timer. The value is in units of PCI clock for PCI device latency timer register.

5.4 Allocate IRQ to PCI VGA

This item is used to set if allocate IRQ to PCI VGA.

[Yes]: Assigns IRQ to PCI VGA card if card requests IRQ.

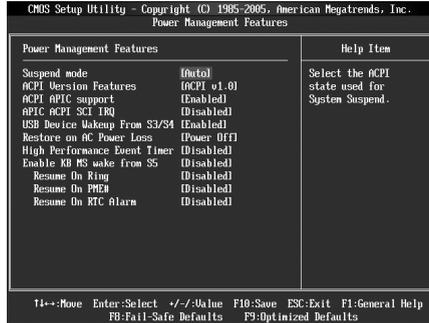[No]: Does not assign IRQ to PCI VGA card even if card requests an IRQ.

5.5 Palette Snooping

This item is used to set whether the palette snooping is enabled.

5.6 PCI IDE BusMaster

This item, when enabled, the BIOS can use PCI bus mastering for reading/ writing to IDE drives.

6.Power Management Features

Power Management Features Menu

6.1 Suspend mode
This item can let you select the ACPI state used for system suspend.

6.2 ACPI Version Features
This item can let you select the ACPI version.

6.3 ACPI APIC support
This item is used to set if add the ACPI APIC table pointer to RSDT pointer list.

6.4 APIC ACPI SCI IRQ
This item is used to enable or disable the APIC ACPI SCI IRQ. Enabling APIC mode will expand available IRQs resources.

6.5 USB Device Wakeup From S3/S4
This item allows you to enable or disable the USB device wakeup from S3/S4.

6.6 Restore on AC Power Loss
This item is used to set which state the PC will take with when it resumes after an AC power loss.

6.7 High performance Event Timer
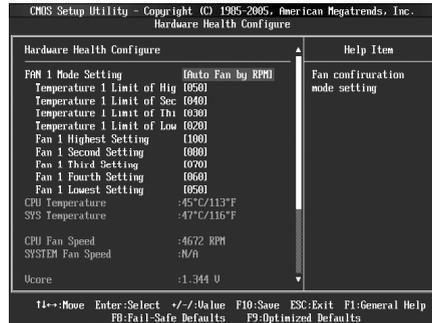This item is used to enable or disable the High Performance Event Timer(HPET).

6.8 Enable KB MS wake from S5
This item is used to enable or disable keyboard and mouse wake_up function from S5.

6.9 Resume On Ring / PME# / RTC Alarm
This item allows you to enable or disable Ring /PME# / RTC alarm event to generate a wake event.

7.Hardware Health Configure

Hardware Health Configure Menu

7.1 Fan 1 Mode Setting

This item is used to set the fan 1 configuration mode.

7.2 Temperature 1 Limit of Hig/Sec/Thi/Low

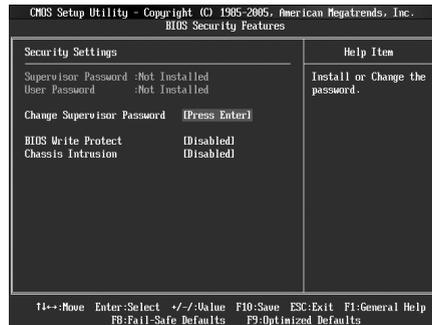These items are used to set the fan temperature limit.

7.3 Fan 1 Highest/Second/Third/Fourth/Lowest Setting

These items are used to set the fan speed.

CPU Temperature /System Temperature/CPU Fan Speed/System Fan Speed/Vcore/1.8V SUS/1.2V CORE/+5V/+12V/+3.3V/VCC/VSB/VBAT

These items display the current CPU/chipset/system temperature,fan speed and voltages that are automatically detected by the system.

8.BIOS Security Features

BIOS Security Features Menu

8.1 Change Supervisor Password

This item is used to install or change supervisor password.

8.2 BIOS Write Protect

This item is used to enable or disabled the BIOS write protect function.

8.3 Chassis Intrusion

This item allows you to enable or disable intrusion detection function.

9.Load Optimal Defaults

This menu can let you load the optimized defaults set by BIOS, which have set the optimized performance parameters of system to improve the performances of system components.You can select <Y> or <N> and then press <Enter> to load or not load the optimized defaults.

10.Load Failsafe Defaults

This menu allows you to load defaults set by BIOS ,which have set the basic functions of system in order to ensure the stability of system.You can select <Y> or <N> and then press <Enter> to load or not load defaults.

11.Save Changes and Exit

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.

12.Discard Changes and Exit

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

Quit Without Saving (Y/N)?Y

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

Chapter 3

This chapter will introduce how to use bundled software.

This chapter provides the following information:
- ❖ FOX ONE
- ❖ FOX LiveUpdate
- ❖ FOX LOGO
- ❖ FOX DMI

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.
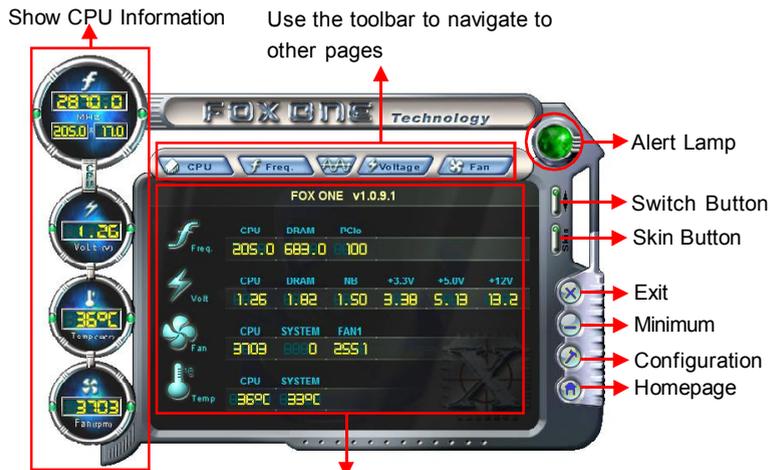
With FOX ONE, you can modify system performance settings such as bus speed, CPU voltage, fan speed, and other system performance options that are supported by the BIOS and you also can monitor hardware temperature, voltage, frequency and fan speed.

Supported Operating Systems:

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

Using FOX ONE:

1. Main Page

Show CPU Information   Use the toolbar to navigate to
                         other pages

Alert Lamp

Switch Button

Skin Button

Exit

Minimum

Configuration

Homepage

Monitor Frequency/Voltage/Fan speed/Temperature value

Alert Lamp
When the system is in healthy status, the alert lamp color is green. And if the system is in abnormal status,the alert lamp color will turn red.

Switch Button
Click this button, it will simplify the interface to HW monitor information bar as the below figure shows. The bar could help you to monitor if your system is in the healthy   status at any time.

Click here to return to
previous status

Skin Button

Click this button, you will see the additive figures such as "crystal"and "rock".Please
select your favorite skin.

Exit

Click this button to exit the program.

Minimum

Click this button to minimize the window.
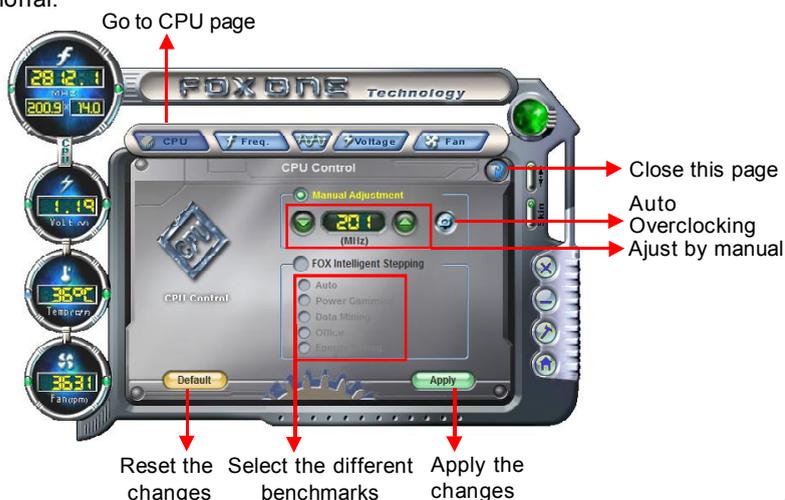
Configuration

This function is used to configurate the parameters for the program. It deter-
mines which items will be shown in simple mode.Besides,it also provides F.I.S
calibration function which will re-calibrate the CPU's loading. F.I.S calibration
function is optional.

Homepage

Click this button to visit FOXCONN motherboard website.
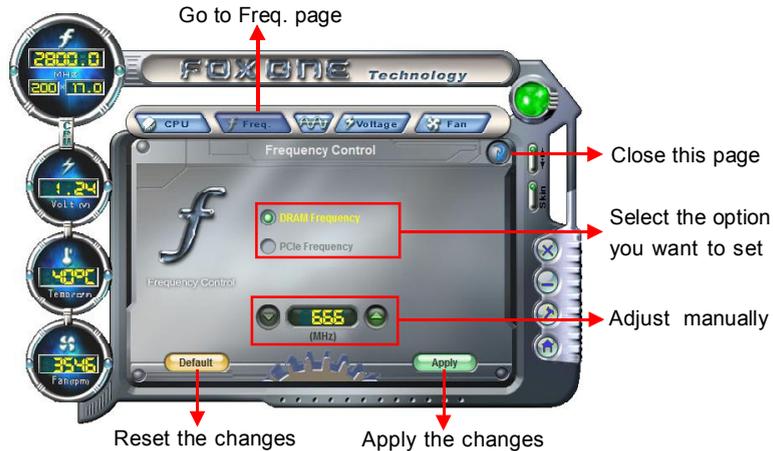
2. CPU Page - CPU Control

This page is used to select and run the CPU frequency to determine the current
performance level of the system. You can adjust manually or select "Auto
Overclock". Otherwise, it also provides FOX Intelligent Stepping,But this function
is optional.

Go to CPU page

Close this page

Auto
Overclocking

Ajust by manual

Reset the   Select the different   Apply the
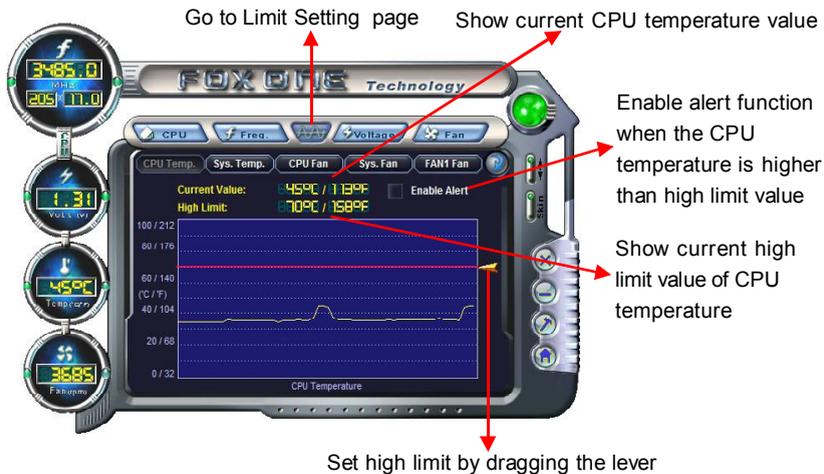changes   benchmarks   changes

3. Freq. Page - Frequency Control

In this page ,you can set memory and PCI Express frequency manually.

Go to Freq. page

Close this page

Select the option
you want to set

Adjust manually
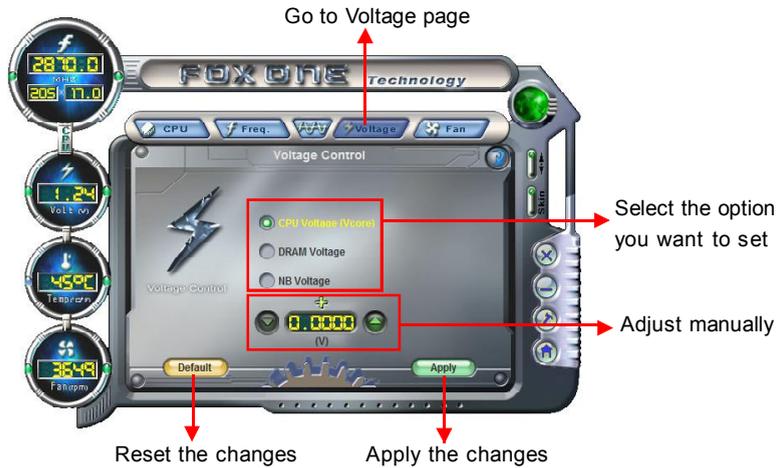
Reset the changes   Apply the changes

4. Limit Setting - Adjust page

This page includes five different sections. "CPU Temp." and "Sys Temp." will help
you to set high limit temperature. "CPU Fan", "Sys. Fan" and"FAN1 fan" are used
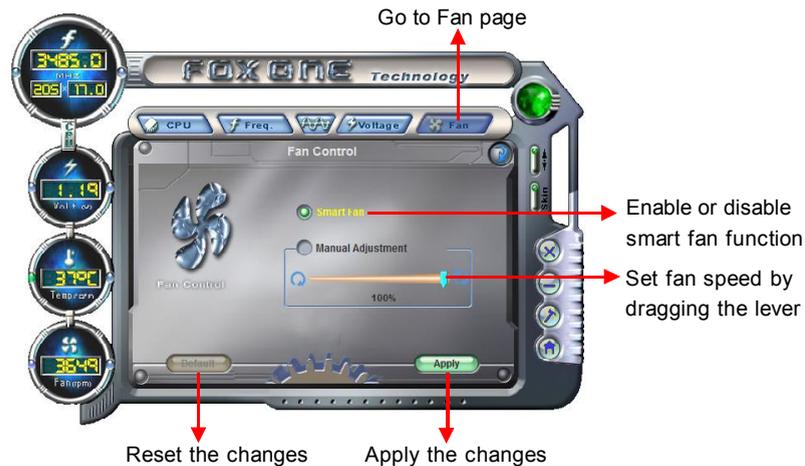to set low limit rpm. And all of them have alert function.

Go to Limit Setting page   Show current CPU temperature value

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

5. Voltage Page - Voltage Control

This page allows you to set CPU , memory and North Bridge voltage manually.

Go to Voltage page

Select the option
you want to set

Adjust manually

Reset the changes   Apply the changes

6. Fan Page - Fan Control

This page allows you to enable Smart Fan function and set fan speed manually.

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 to backup and update the system BIOS online
or locally.Drivers and utilities are aslo can be updated online.
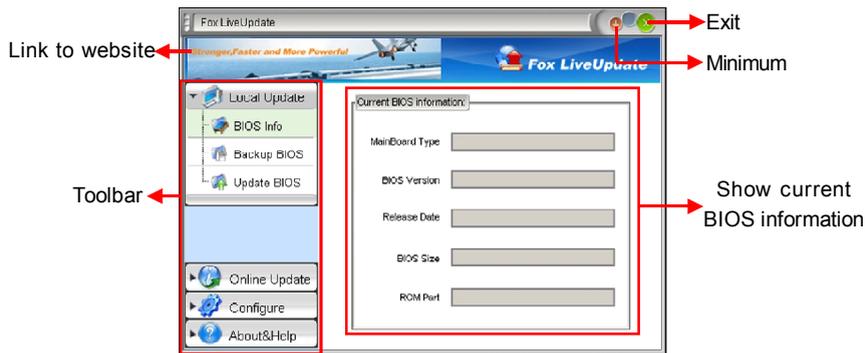
Supported Operating Systems:
  -Windows 2000   -Windows XP (32-bit and 64-bit)
  -Windows 2003 (32-bit and 64-bit)   -Windows Vista (32-bit and 64-bit)
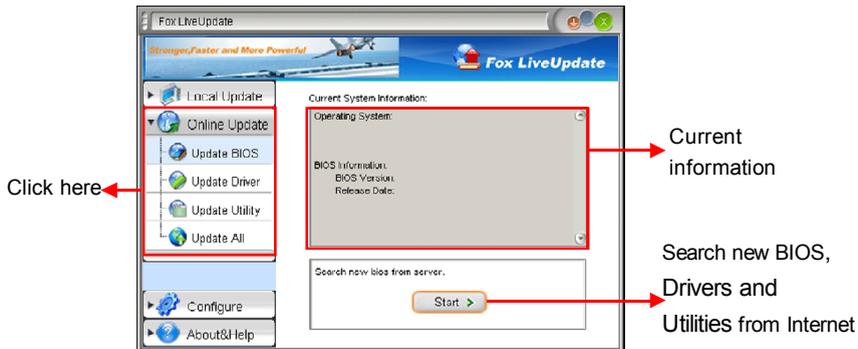
Using FOX LiveUpdate:

1. Local Update

"**BIOS Info**" tells you the system BIOS information; "**Backup BIOS**" could backup your system BIOS ,please click this button ,then key in a BIOS name and save it ; "**Update BIOS**" helps to update your system BIOS from local BIOS files ,please follow the wizard to finish the operation.

2. Online Update

This area lets you update your system BIOS,Drivers,Utilities and all of them from Internet. Click "start", it will search the new BIOS ,Drivers and Utilities from Internet. Then follow the wizard to finish the update operation.
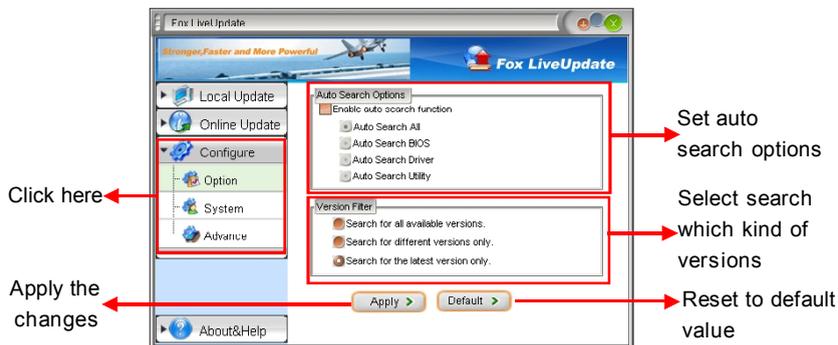

3. Configure

"**Option**" provides auto search options and version filter. After setting the auto search options, the utility will work in the background and the related information will show in a pop balloon notification;
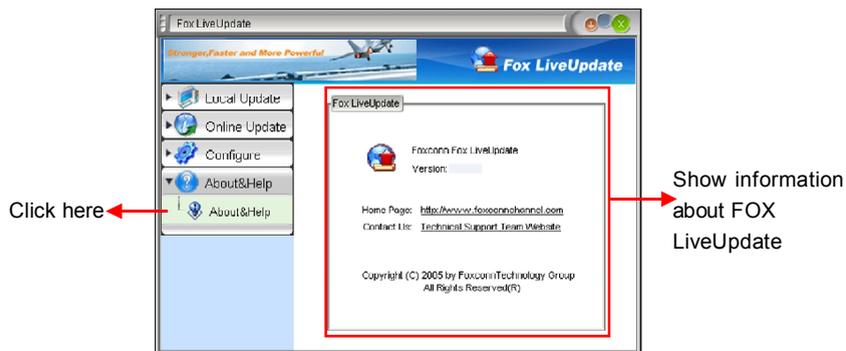
click the "**System**" button,you can set the backup BIOS location and change different skin of the utility;"**Advance**"helps you to flash BIOS,Boot Block and clear CMOS ,we recommend that you keep the default setting
unchanged to avoid damagement.

4. About & Help

This page shows some information about FOX LiveUpdate.

FOX LOGO

FOX LOGO is a simple and useful utility to backup, change and delete the boot Logo. The boot Logo is the image that appears on screen during the Power-On Self-Tests (POST).

Supported Operating Systems:
  -Windows 2000   -Windows XP (32-bit and 64-bit)
  -Windows 2003 (32-bit and 64-bit)   -Windows Vista (32-bit and 64-bit)

Using FOX LOGO:

Main Page

Main screen

Backup

Change

Delete

Exit

Minimize

Website

About

⚠ **Warning:**

When you change Logo or delete current Logo, the system will flash BIOS file automatically.During this time , please DO NOT shut down the application and the system ,or the motherboard will be damaged seriously.

FOX DMI

FOX DMI is a full DMI information viewer,and it supports three kinds of DMI Data format :Report , Data Fields and memory Dump.

Supported Operating Systems:
  -Windows 2000   -Windows XP (32-bit and 64-bit)
  -Windows 2003 (32-bit and 64-bit)   -Windows Vista (32-bit and 64-bit)

Using FOX DMI:
Please operate this utility as the comments shows .

Click here to select the DMI Data format you need

Click here to select the type you want to view.