Table of Content

Quick Installation

Before Installation

For installation, you may need some or all of the following tools:

Medium size flat blade screwdriver

Medium size Phillips head screwdriver

A 3/16 inch nut driver or wrench

Users must follow these guidelines to ensure the motherboard is protected during installation.

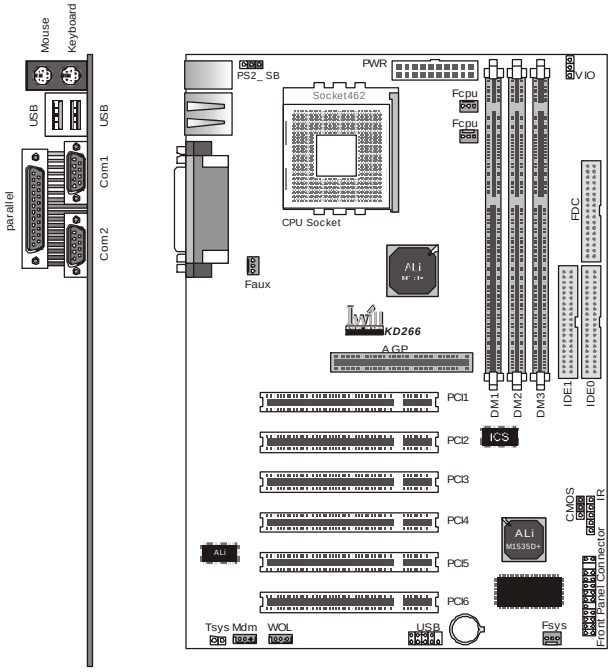
1.Make sure your computer is powered-off whenever working in with inside components

2.The motherboard, like all other electronic equipment, is ensitive to static. Please take the proper precautions when handling it. If possible, ground yourself by touching a metal table or desk. keep the board in its conductive wrapping until it is configured and ready to be installed in your system.

3.Keep all magnets away from both your hard and floppy disk drives, especially magnetic screw drivers. Keep both floppy and hard disks apart if disassembled.

4.Keep water and liquids away from your computer and its components.

Layout



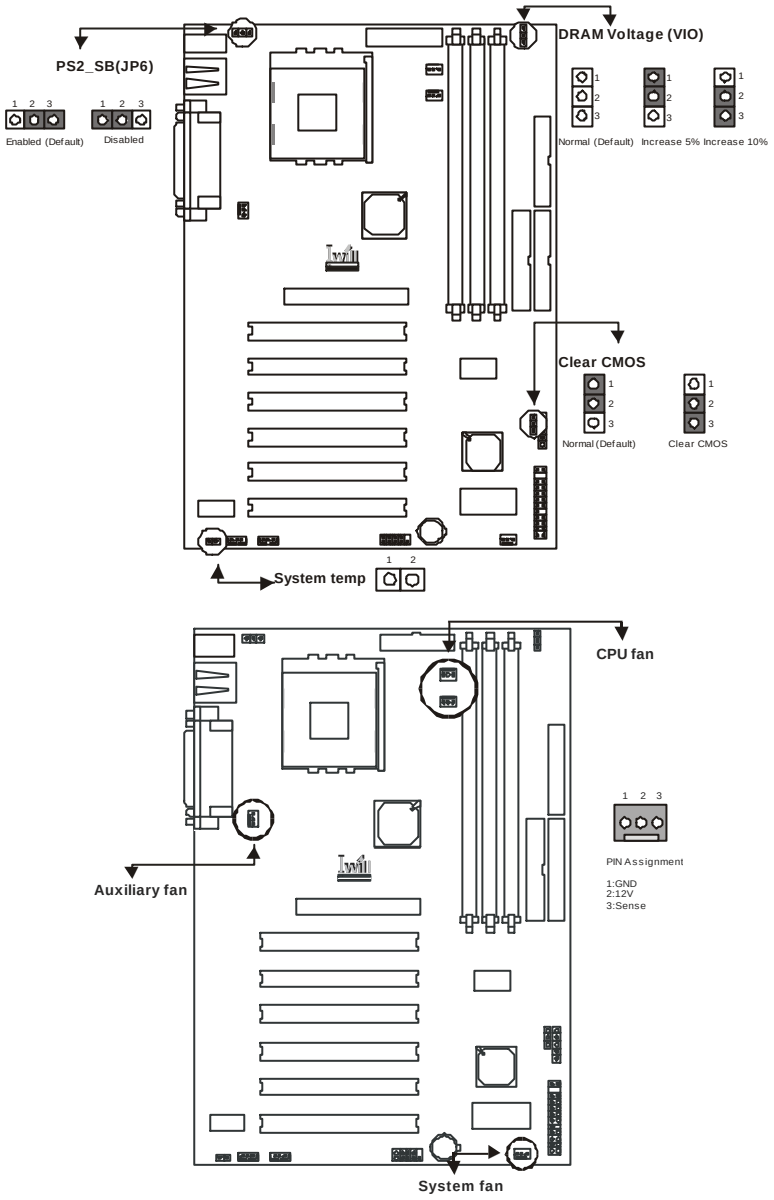
Item Checklist

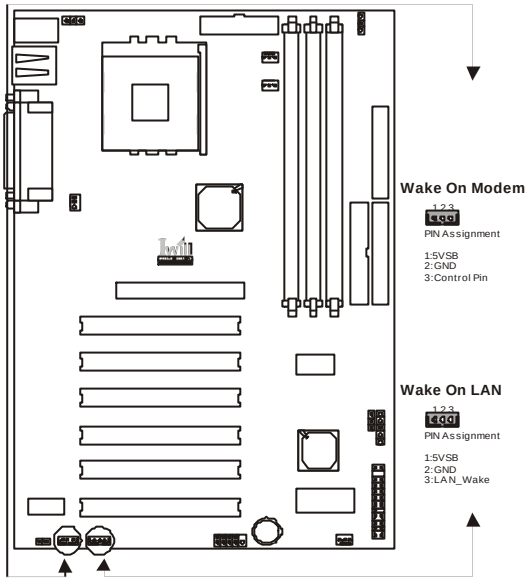
The motherboard
Operation manual
ATA/66/100 cable
Floppy cable
Power Installer CD

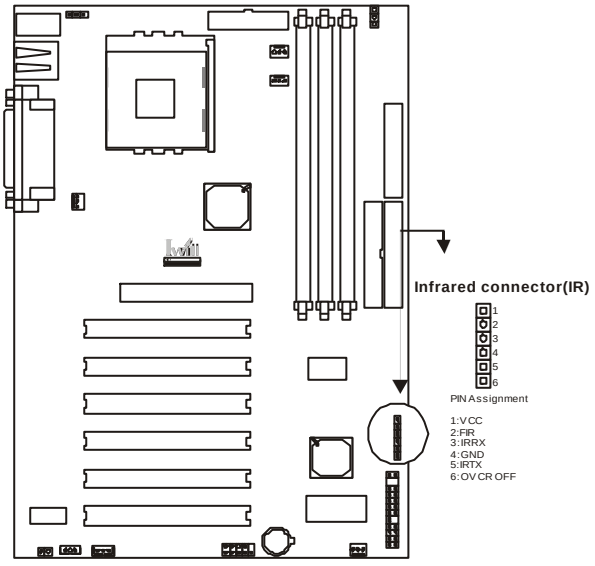
Optional

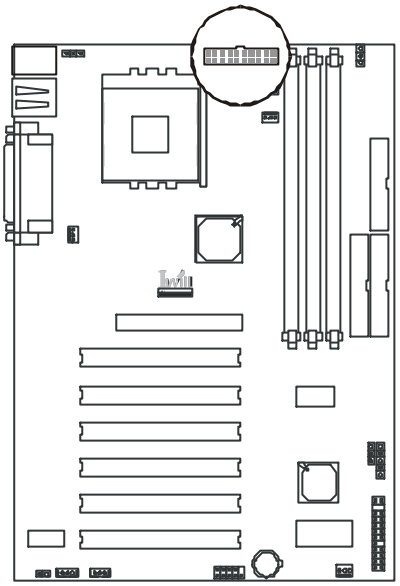
USB riser kit
Thermal Sensor for System
Infrared port cable

Jumpers/Connectors

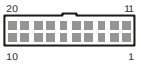



Wake On Modem
1 2 3
PIN Assignment
1:5VSB
2:GND
3:Control Pin
Wake On LAN
1 2 3
PIN Assignment
1:5VSB
2:GND
3:LAN_Wake

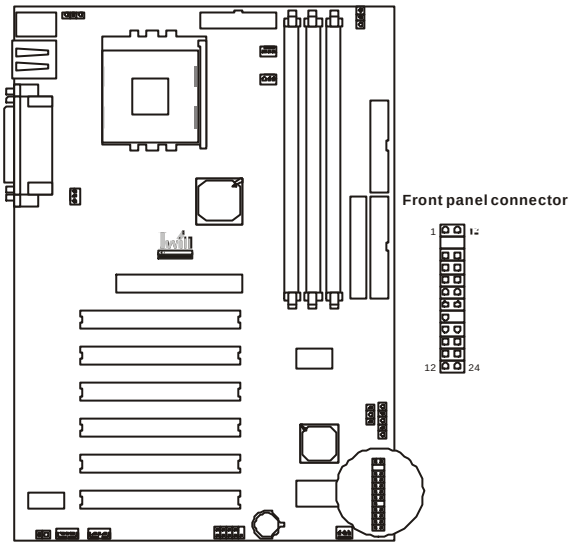

Infrared connector(IR)
1
2
3
4
5
6
PIN Assignment
1:VCC
2:FIR
3:IRRX
4:GND
5:IRTX
6:OVCR OFF



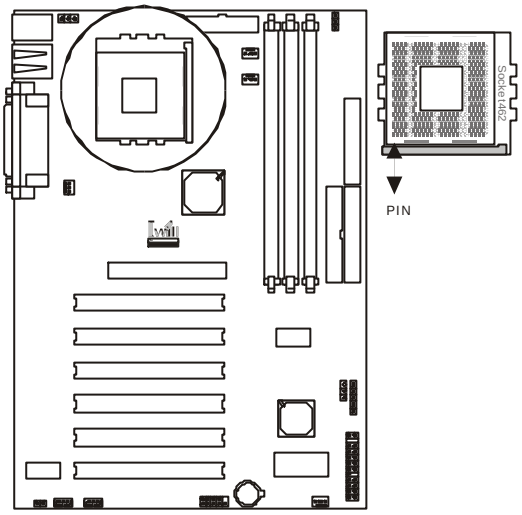
ATX power connector



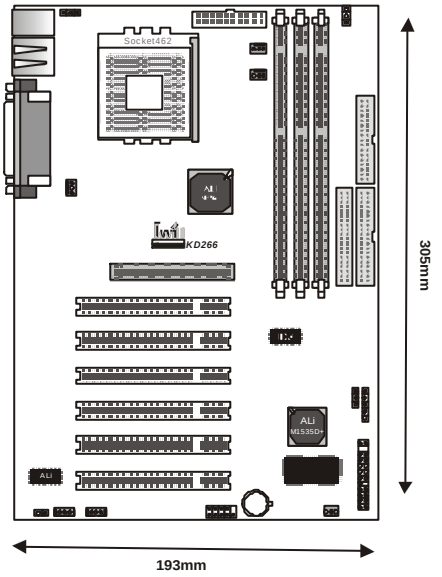
PIN NO	Definition	PIN NO	Definition
1	+3.3v	11	+3.3V
2	+3.3v	12	-12V
3	GROUND	13	GROUND
4	+5V	14	Power Supply On
5	GROUND	15	GROUND
6	+5V	16	GROUND
7	GROUND	17	GROUND
8	Power Good	18	-5V
9	+5V Standby	19	+5V
10	+12V	20	+5V



Function	PIN NO.	Definition
PWR_ON(Power/Soft_off)	1,13	
ALED(IDE LED)	7,8	PIN 7:Anode PIN 8:Cathode
RST(RESET)	11,12	PIN 11:RST PIN 12:GND
PLED(System Power LED)	15,16,17	PIN 15:VCC PIN 16:NC PIN 17:GND
SPKR(Speaker)	21,22,23,24	PIN 21:VCC PIN 22:NC PIN 23:NC PIN 24:SPEAK(BUZZ)

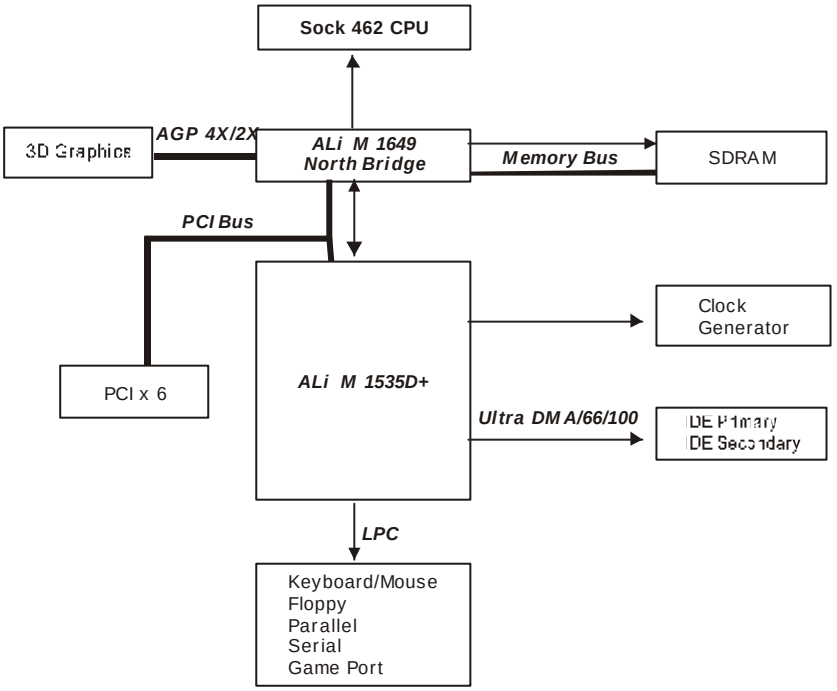


Form Factor



Feature

Block Diagram



Specifications

Processor / (Socket A)

Supports 1 processor Socket A
Supports 100MHz/133MHz (Front Side Bus)
Supports AMD Athlon and Duron CPU

CPU Frequency/Voltage Selection

Supports Vcore selection by BIOS (1.125V to 1.85V Step 0.025V)
Supports VIO selection by Jumper (5% or 10%)
Supports CPU Multiplierselection by BIOS (5X to 15X Step 0.5X)
Supports CPU External Frequency selection by BIOS(100MHz-180MHz Step/MHz)

Memory

Supports PC100/PC133 S DRAM
Supports 16M/64M/128M/256Mbit 512 DRAM technology
Supports up to 3GB DRAM

Graphics

Supports AGP2X/AGP4X Universal Slot

General I/O

PCI 2.2 compliance
Supports 32-bit/33MHz PCI interface
Supports ATA33/66/100 IDE interface
Supports Floppy interface
Supports 16550A UART interface
Supports ECP/EPP interface
Supports PS2 interface
Supports SIR/CIR/MIR interface
Supports USB interface

ChipSet

ALi M1649, BGA528
ALi M1535D+, BGA352

Management

Supports voltage monitoring (+12V/+5V/Vcore/+3.3V)
Supports fan control signal (CPU/SYS)
Supports temperature sensor (CPU/SYS)
Supports Power on by Ext.Modem/Int.Modem/RTC/PME
Supports Resume by LAN/Ext.Modem/Int.Modem/PS2Keyboard/PS2
Supports ACPI
Supports APM/DMI/SMBUS/PnP
Supports BIOS ROM Flash Control
Supports Manually Assign PCI IRQ

Expansion Slot, Sockets and Connectors

One Socket 462 socket
Three DIMM sockets
One Universal AGP slot
Six 32bit/33MHz Bus Master PCI slots
Two IDE connectors
One FDC connector
One External USBx2 connectors

Others

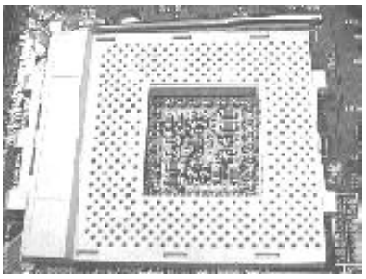
ATX Form Factor 305mmx193mm

Hardware Setup

Install the Processor

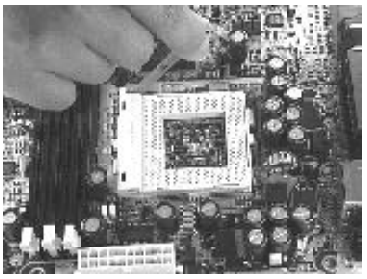
The CPU should have a fan attached it to prevent overheating.
Be sure that there is sufficient air circulation across the processors heatsink by regularly checking that your CPU fan is working. Without sufficient circulation, the processor could overheat and damage both the processor and the motherboard. You may install an auxiliary fan, if necessary.

Step1:



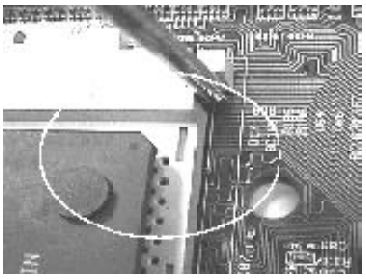
Locate the ZIF socket and open it by first pulling the lever of socket upward.

Step2:



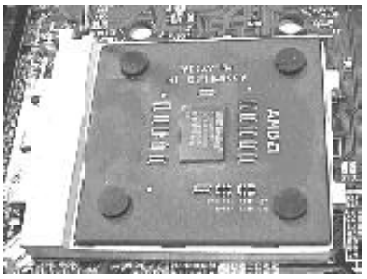
Insert the CPU into the socket. Please keep the lever right angle when inserting CPU.

Step3:



When inserting the CPU Please note the correct orientation as shown. The notched corner should point toward the end of the lever.

Step4:



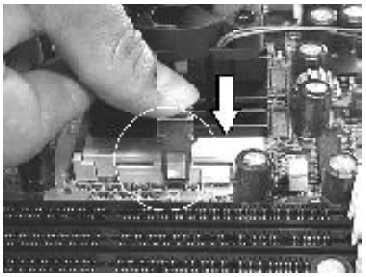
Push the lever down to close the socket.

Step5:

Attach the heatsink to the CPU.

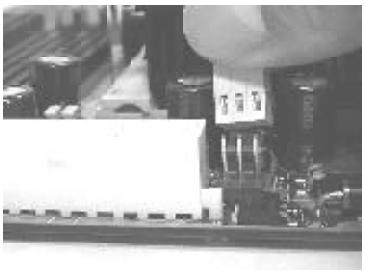
Be careful not to scrape the motherboard when mounting a clampstyle processor fan or else damage may occur to the motherboard.

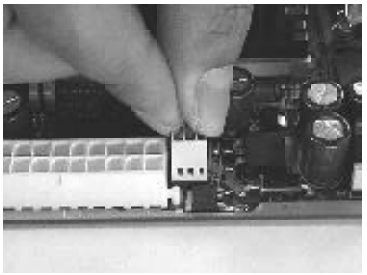
Step6:



Push the clip of heatsink downward to hock the ear of socket firmly.

Step7:





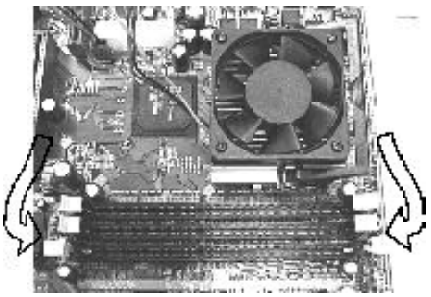
Finally,attach the fan cable to the CPU fan header FCPU.

Don't forget to set the correct Bus Frequency and Multiple(frequency multiple setting is available only on unlocked processors) for your Socket 370 processor or else boot-up may not be possible.

Install Memory Module

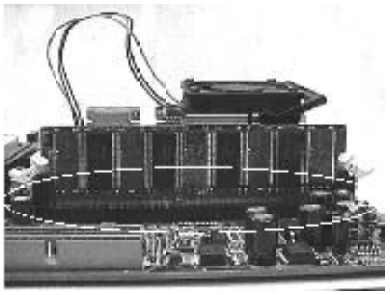
The motherboard has three memory sockets and supports memory size up to 3GB.

Step1:



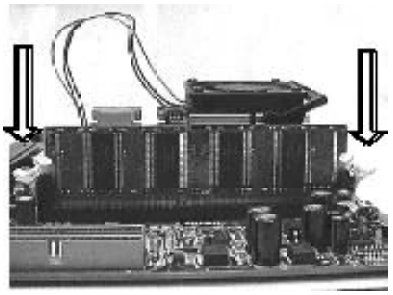
Open latches of DIMM socket.

Step2:



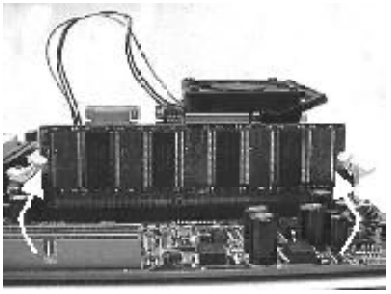
Proofread the RAM module to the DIMM Socket.

Step3:



Insert the RAM module into the DIMM socket.

Step4:



Press the latches into the notches of the RAM module.

Back Panel

Function	color	Description
PS2/Mouse	Green	This connector can be used to support a PS/2 mouse.
PS2/keyboard	Purple	This connector can be used to support a PS/2 keyboard.
Universal Serial Bus	Black	This motherboard has two USB ports, any USB-compatible peripherals and/or hub can be connected into either USB port.
Serial port	Teal	One serial port is ready for a modem or other serial devices.
Parallel port	Burgundy	This connector is used for printers, or other parallel devices.

BIOS Setup

BIOS Setup

Upgrade BIOS

The BIOS can be upgraded from a diskette with the Award Flash utility —AWDFLASH.EXE. The BIOS image file, and update utility are available from IWILL's WEB site: ***support.iwill.net***

If you have any problem, please contact with us in IWILL's web site:www.iwill.net

Enter BIOS setup program

Power-on the system by either pressing the Power-On button, or by using any of the power-on features provided by the motherboard. Then, press the <Del> key after the Power-On Self Test (POST), and before the scanning of IDE devices. Simply look for the message "Press DEL to enter SETUP" displayed at the bottom of the screen during the boot up process. If the message disappears before you've had a chance to respond, you can restart the system by turning off the system power then turn it on again, or pressing the "RESET" button on the system case, or pressing <Ctrl>, <Alt> and <Del> keys simultaneously.

Generally, the BIOS default settings have been carefully chosen by IWILL's Engineers provide the absolute maximum performance and reliability. It is very dangerous to change any setting without full understanding. We strongly recommend that you.
DO NOT update BIOS if the system works perfectly.
DO NOT change any setting unless you fully understand what it means.

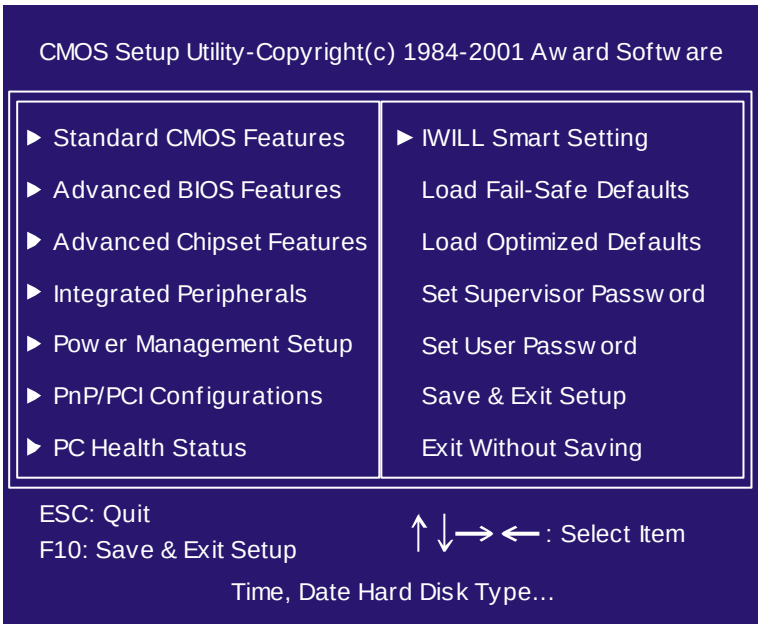
Using BIOS setup program

Up	Move to the previous field
Down	Move to the next field
Left	Move to the field on the left hand side
Right	Move to the field on the right hand side
<Esc>	Quit from setup program without saving changes, ro Exit from current menu page and return to main menu page
<PgUp>or<+>	Select the previous value for a field.
<PgDn>or<->	Select the next value for a field
<F1>	General Help
<F2>	Item Help
<F5>	Previous Values
<F6>	Fail-Safe Defaults
<F7>	Optimized Deaults
<F10>	Save the current value and exit setup program

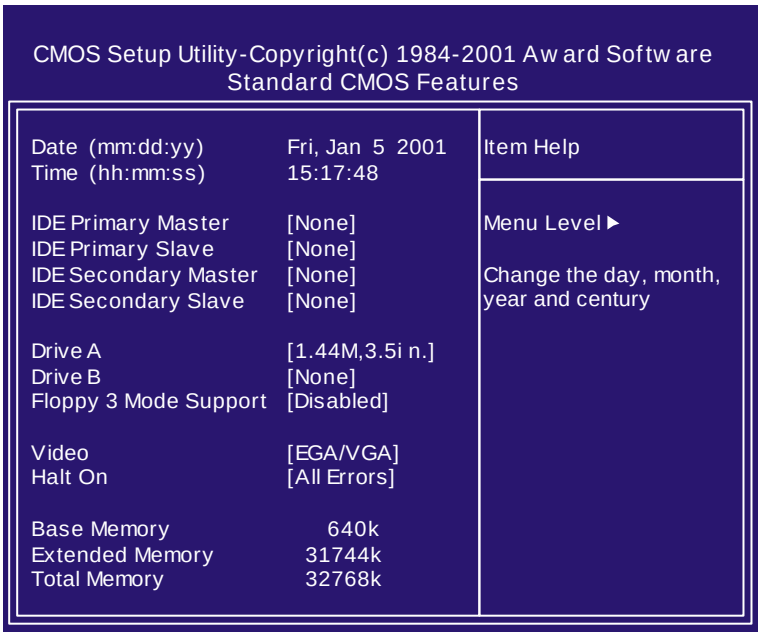
If the system is no longer able to boot after changing the settings, the only way to clear the data stored in RTC CMOS. To reset the RTC CMOS data, take the JP1 jumper cap off pins 1-2, place onto pins 2-3, and then place back onto pins 1-2 again. it returns the RTC to the default setting. Then, get into the BIOS setup program , choose Load Fail-Safe Defaults ; Load Optimized Defaults, and select IWILL's Engineers to set default settings in your CMOS.

Main Menu

The main menu allows you to select from several setup items. Use the arrow keys to select among these items and press <Enter> key to enter the sub-menu. Abrief description of each highlighted selection appears on the bottom of the screen.



Standard CMOS Features



Date

This field specifies the current date. The date format is<day>, <month>, <day>, and <year>.

Time

This field specifies the current time. The time format is <hour>, <minute>, and <second>. The time is calculated based on the 24-hour (military-time) clock.

IDE Primary Master / Primary Slave / Secondary Master / Secondary Slave

Press “Enter” to enter next page for detail hard drive setting.

IDE HDD Auto-Detection

Auto-Detect the HDDs Capacity, and its parameters, ex: Cylinder, Head and Sector.

v

IDE Primary Master / Primary Slave / Secondary Master / Secondary Slave

This field specifies type of drive that corresponds to the driver installed in your system. If you select User, please specify the correct number of Cylinders, Heads, and Sectors.

Manual	Select anual lets you set the remaining fields on this screen. Select the type of fixed disk.
Auto **(Default Vaule)**	BIOS automatically fills in the values for the cylinders, heads and sectors fields.
None	Any Disk Drivers are attached.

Capacity Auto Display your disk drive size

Access MODE

This field specifies the IDE translation mode.

NORMAL	Specifies traditional CHS addressing mode.
LARGE	Specifies extended CHS translation mode
LBA	Specifies LBA translation mode.
AUTO **(Default Vaule)**	BIOS specifies translation method automatically.

Cylinders

Set the number of cylinders for this hard disk.

Heads

Set the number of read/write heads

Precomp

Write precompensation.

Sectors

Set the number of sectors per track

Drive A / Drive B

This field specifies the traditional type of floppy drives.

None **(*Drive B default)**	Any Floppy drive is connected
360K, 5.25 in.	Specifies extended CHS translation mode
1.2M, 5.25 in.	A 1.2M floppy drive is connected
720K, 3.5 in.	A 720K floppy drive is connected.
1.44M, 3.5 in. **(*Drive A default)**	A 1.44M floppy drive is connected
2.88M, 3.5 in.	A 2.88M floppy drive is connected

Floppy 3 Mode Support

3 Mode floppy drive is a type of 3.5-inch drive used by NEC PC98 computers. It supports both 1.2M and 1.44M formats using the same drive. This field specifies which drive supports 3 Mode. When a floppy drive is specified to support 3 Mode, the respective drive setting in "Drive A/ Drive B" field will be invalid.

Disabled **(Default Value)**	No 3 Mode drive is connectedd
Drive A	A 3 Mode drive is connected as drive A
Drive B	A 3 Mode drive is connected as drive B
Both	Both drive A and drive B are 3 Mode drives

Video

EGA/VGA **(Default Value)**	Specifies EGA or VGA adapter.
CGA 40	Specifies CGA adapter with 40 column mode
CGA 80	Specifies CGA adapter with 80 column mode
MONO	Specifies Monochrome adapter

Halt On

All Errors **(Default Value)**	Each time the BIOS detects a non-fatal error, the system will stop and display an error message.
No Errors	The system will stop for any errors that are detected.
All, But Keyboard	The system will stop for any errors except keyboard error.
All, But Diskette	The system will stop for any errors except diskette error.
All, But Disk/Key	The system will stop for any errors except diskette and keyboard errors.

Base Memory

The POST (Power-On Self Test) determines the amount of base (conventional) memory installed in the system. The value of the base memory is typically 640K. This field has no options.

Extended Memory

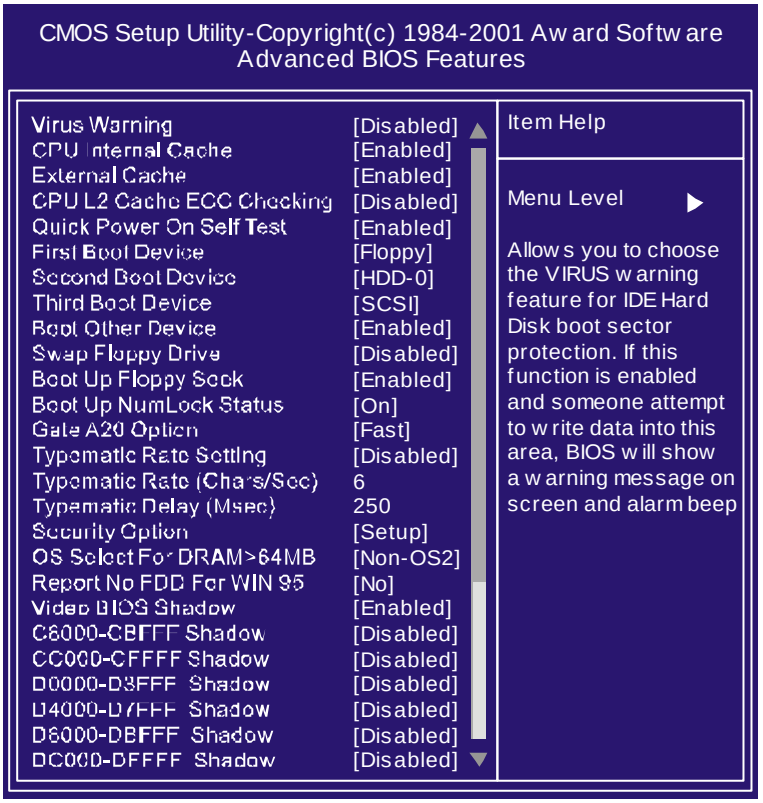
The BIOS determines how much extended memory is present during the POST. The amount of memory is located above 1MB in the processor's memory address map. This field has no options.

Total Memory

Display the total memory available in the system.

v

Advanced BIOS Features



Virus Warning

When this function is enabled and any attempt to write data into this area is made, the BIOS monitor will display a warning message on screen and beep. If you want to run an anti-virus program, we recommend you that it will disable and appear the Virus Warning function beforehand.

[Enabled,Disabled**(Default Value)**]

CPU Internal Cache

This field configures the CPU internal cache (L1 cache).

[Enable**(Default Value)**,Disabled]

External Cache

This field configures the system's external cache (L2 cache).

[Enable**(Default Value)**,Disabled]

CPU L2 Cache ECC Checking

This field specifies whether the CPU L2 cache supports ECC or not.

[Enable,Disabled**(Default Value)**]

Quick Power On Self Test

This field allows the system to skip certain tests while booting. This will decrease the time to need booting the system.

[Enable**(Default Value)**,Disabled]

First / Secound / Third / Boot Other Device

The BIOS attempts to load the operating system from the devices in the sequence selected in these items.

[Floppy,LS120,HDD-0,SCSI,CDROM,HDD-1,HDD-2,HDD-3, ZIP100,USB-FDD,USB-ZIP,USB-CDROM,USB-HDD,LAN, Disabled]

Swap Floppy Drive

Setting to Enabled,floppy drives A and B will be exchange.

[Enable,Disabled**(Default Value)**]

Boot Up Floppy Seek

Seek disk drives during boot up. Disabling speeds boot up.

[Enabled **(Default Value)**,Disabled]

Boot Up NumLock Status

This field determines the configuration of the numeric keypad after system boot up. If On, the keypad uses numbers keys. If Off, the keypad uses arrow keys.

[ON **(Default Value)**,Off]

Gate A20 Option

This field configures how the gate A20 is handled. The gate A20 is a device used to address memory above 1 MB. At first, the gate A20 was handled from a pin on the keyboard. While some keyboards still provide this support, it is more common, and much faster, for modern system chipsets to provide support for gate A20.

[Fast **(Default Value)**:Gate A20 signal supported by core logic.]

[Normal:GateA20 signal supported by keyboard controller]

Typematic Rate Setting

This field determines if the typematic rate is to be used. When enabled, the BIOS will report (after a moment) that the key has been depressed repeatedly. When disabled, the BIOS will report only once if a key is held down continuously. This feature is used to accelerate cursor movements using the arrow keys.

[Enable, Disabled**(Default Value)**]

Typematic Rate (Chars/Sec)

When Typematic Rate Setting is enabled, this field specifies how many characters will be displayed in one second when a key is held down continuously.

[6 (Default Value)8,10,12,15,20,24,30]

Typematic Delay (Msec)

Typematic delay allows you to select the time delay between when the key is first pressed and when the acceleration begins.

[250msec **(Default Value)**500msc,750msec,1000msec]

Security Option

This field configures how the system security is handled. It works conjunction with SETTING SUPERVISOR / USER PASSWORD page to control the security level of the system.

[Setup **(Default Value)**:System needs a password to enter BIOS setup program.]

[System:System needs a password to boot]

OS Select for DRAM >64MB

This field allows you to access the memory that is over 64MB under OS/2.

[OS2, Non-OS2**(Default Value)**]

Report No FDD For WIN 95

For a floppy diskless system that runs Windows 95, this field should be set to Yes.

[YES,NO **(Default Vaue)**]

Video BIOS Shadow

Setting to enabled, the video BIOS will be copied to the system memory and increase video speed accordingly.

[Enable**(Default Value)**,Disabled]

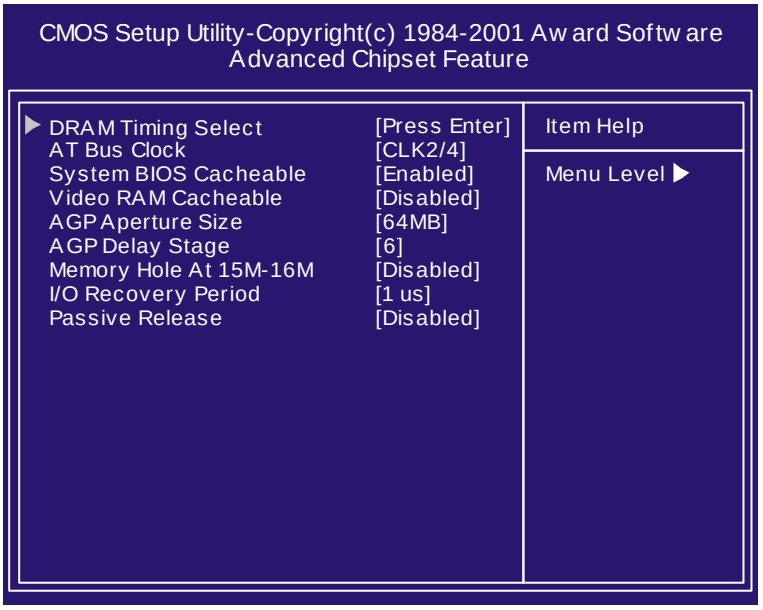
C8000-CBFFF / CC000-CFFFF / D0000-D3FFF / D4000-D7FFF / D8000-DBFFF / DC000-DFFFF Shadow

Setting to enabled, the extended ROM data located at the respective address range will be copied to system memory.

[Enable, Disabled **(Default Value)**]

Advanced Chipset Features

This setup page is used to specify advanced features available through the chipset. The default settings have been chosen carefully for most operating conditions. DO NOT change the value of any field in this setup page without full understanding.



DRAM Timing Select

The first chipset settings deal with CPU access to dynamic random access memory (DRAM). The default timings have been carefully chosen and should only be altered if data is being lost. Such a scenario might well occur if your system had mixed speed DRAM chips installed. Longer delays might result, however this preserves the integrity of the data held in the slower memory chips.

SDR DRAM CAS Select

Select the number of clock cycles of CAS latency depends on the DRAM timing .

[2,3 (**Default Value)**]

Refresh Queue

Select the depth value of the DRAM refresh queue.
[Disabled,Depth 2,Depth 4,Depth 8 **(Default Value)**]

DRAM Performance

Select the performance parameter of the installed DRAM. Do not reset this field from the default value by the system designer unless you install new memory that has a different performance rating than the original DRAMs.

[Failsafe,slow, Normal**(Default Value)** Fast,Ultra,Ultra2]

Enhance Page Mode Timer

Select the preset value of the Page Life Timer counter . When disabled , the open pages mode will not be closed even the PLT counter expired .

[16clk,32clk, **(Default Value)** 64clk,128clk,Disabled]

Refresh Rate

Select the rating for DRAM refresh control.
[Normal**(Default Value),15.6us,7.8us**]

AT bus Clock

Select the speed of the AT bus in terms of a fraction of the CPU clock speed , or at the fixed speed of 7.16 MHz.

[7.16MHz,CLK2/2,CLK2/3,CLK2/4**(Default Value)**,CLK2/5,CLK2/6]

System BIOS Cacheable

Setting to enabled, accesses to the system BIOS will be cached.

[Enable**(Default Value)**, Disabled]

Video RAM Cacheable

Setting to enabled, access to the Video RAM will be cached.

[Enable,Disabled**(Default Value)**]

AGP Aperture Size

This field configures the main memory size for AGP graphics data used.

[0MB,1MB,2MB,4MB,8MB,16MB,32MB,64MB,**(Default Value)**, 128MB,256MB]

Memory Hole At 15-16M

This system memory area can be reserved for ISA adapter ROM. When reserved, this area cannot be cached. Please refer to information regarding the memory requirements of your system peripherals.

[Enable,Disabled**(Default Value)**]

I/O recovery Period

It allows you to determine the recovery time allowed for I/O.

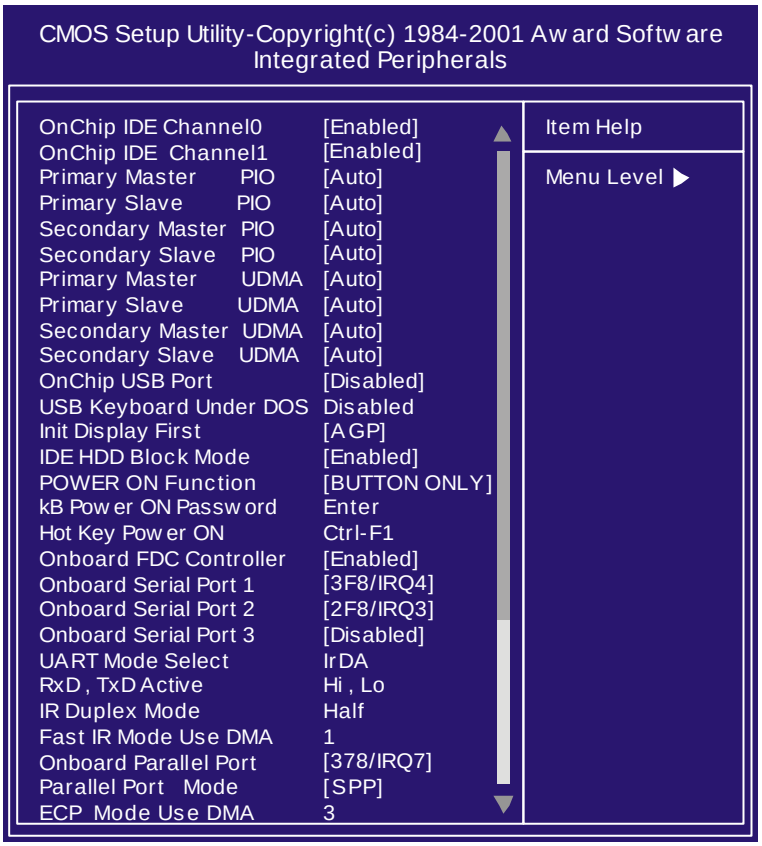
[3us,2us,1us**(Default Value)**]

Passive Release

Setting to enabled, CPU to PCI bus accesses is allowed during passive release. Otherwise, the arbiter only accepts another PCI master access to local DRAM.

[Enable,Disabled**(Default Value)**]

Integrated Peripherals



On-Chip IDE Channel0/1

This field enables or disables the onboard IDE controller.

[Enable**(Default Value)**, Disabled]

IDE Primary Master / Slave PIO

IDE Secondary Master / Slave PIO

These fields configure the PIO (Programmable Input Output) transfer mode for each IDE devices. The maximum transfer rates of each PIO mode are listing as follow:

PIO Mode 0 PIO Mode 1 PIO Mode 2 PIO Mode 3 PIO Mode 4	3.3 MB/sec 5.2 MB/sec 8.3 MB/sec 11 MB/sec 16.6 MB/sec
Auto**(Default Value)** Mode 0 Mode 1 Mode 2 Mode 3 Mode 4	Negotiated with device automatically Use Mode 0 timing to access device Use Mode 1 timing to access device Use Mode 2 timing to access device Use Mode 3 timing to access device Use Mode 4 timing to access device

IDE Primary Master / Slave UDMA

IDE Secondary Master / Slave UDMA

If you select Auto, the IDE controller uses Ultra DMA 33/66 Mode to access Ultra DMA-capable IDE devices. Depend on the resent of negociation with your HDD. The maximum transfer rate of Ultra DMA 66 Mode is 66.6 MB/sec.

[Auto**(Default Value)**, Disabled]

Onchip USB port

Select Enabled if your system contains USB peripherals.

[Enable, Disabled**(Default Value)**]

USB Keyboard under DOS

Select to Enabled if you want to use USB keyboard under DOS.

[Enable, Disabled**(Default Value)**]

Init Display First

This item allows you to decide which slot to activate first, either PCI slot or AGP slot.

[PCI Slot, AGP**(Default Value)**]

IDE HDD Block Mode

When enabled, the IDE controller will use the faster block mode to access devices.

[Enabled**(Default Value)**, Disabled]

Power-On Function

This field configures the Power-On mode of the system.

The Power-On button will not function in this mode.

Password	You can assign a password string through KB Power-On Pass word field.
Hot KEY	You can assign a hot key through the Hot Key Power-On field.Pressing this hot key will power-on your system.
Mouse Left / Right	Double - Clicking The PS/2 mouse Left / Right button will power on the system.
Button only **(Default Value)**	Simply power-on your system by pressing the Power-On button on the front panel of your PC case
Keyboard 98	Enables Keyboard 98 function.This founction is good only for users of Keyboard 98.

KB Power-On Password

If you wish to use this function, bring the cursor to the field written Enter, then press <Enter>. The computer will display the message, Enter Password". Type your password is displayed,re-type your password. The KB Power-On function will be in effect after you save and exit setup.

To disable a password, bring the cursor to the Enter" field again, then press <Enter>. The computer will display the message, Enter Password Press <Enter>. A message will confirm that the password is disabled.

Hot Key Power-On

This field specifies key selection for the Keyboard-Power-On hot key.

[Ctrl-F1,Ctrl-F2,Ctrl-F3,Ctrl-F4,Ctrl-F5,Ctrl-F6,Ctrl-F7,Ctrl-F8,Ctrl-F9, Ctrl-F10,Ctrl-F11,Ctrl-F12]

Onboard FDC Controller

This field enables or disables the onboard floppy controller.

[Enabled**(Default Value)**,Disabled]

Onboard Serial Port 1 / 2 / 3

These fields configure the onboard serial ports. There are several port addresses and IRQ channels to select from.

3F8 / IRQ 4 **(Default Vaule)**	Port address 3F8h, IRQ 4
2F8 / IRQ 3	Port address 2F8h, IRQ 3
3E8 / IRQ 4	Port address 3E8h, IRQ 4
2E8 / IRQ 3	Port address 2E8h, IRQ 3
Auto	BIOS assigns port address and IRQ channel automatically.
Disabled.	Disables serial port

UART Mode Select

[IrDA **(Default Value)**,ASKIR]

RxD, TxD Active for IrDA and ASKIR Functions

When setting the field to either IrDA or ASKIR, you must select the active level of receiving and transmission signal.

[Hi ,Lo(Default Value) /Lo,Hi/Lo,Lo/Hi,Hi]

IR Duplex Mode

[Full,Half **(Default Value)**]

Fast IR Mode Use DMA

[1 **(Default Value)**,3]

Onboard Parallel Port

This field configures the onboard parallel port. There are several port addresses and IRQ channels to select from.

378 / IRQ 7 **(Default Value)**	Port address 378h, IRQ 7
278 / IRQ 5	Port address 278h, IRQ 5
3BC / IRQ 7	Port address 3BCh, IRQ 7
Disabled	Disables parallel port

Parallel Port Mode

This field configures the operating mode of an onboard parallel port. Ensure you know the specifications of your parallel port devices before selecting field.

[SPP**(Default Value)**,EPP,ECP ECP+EPP]

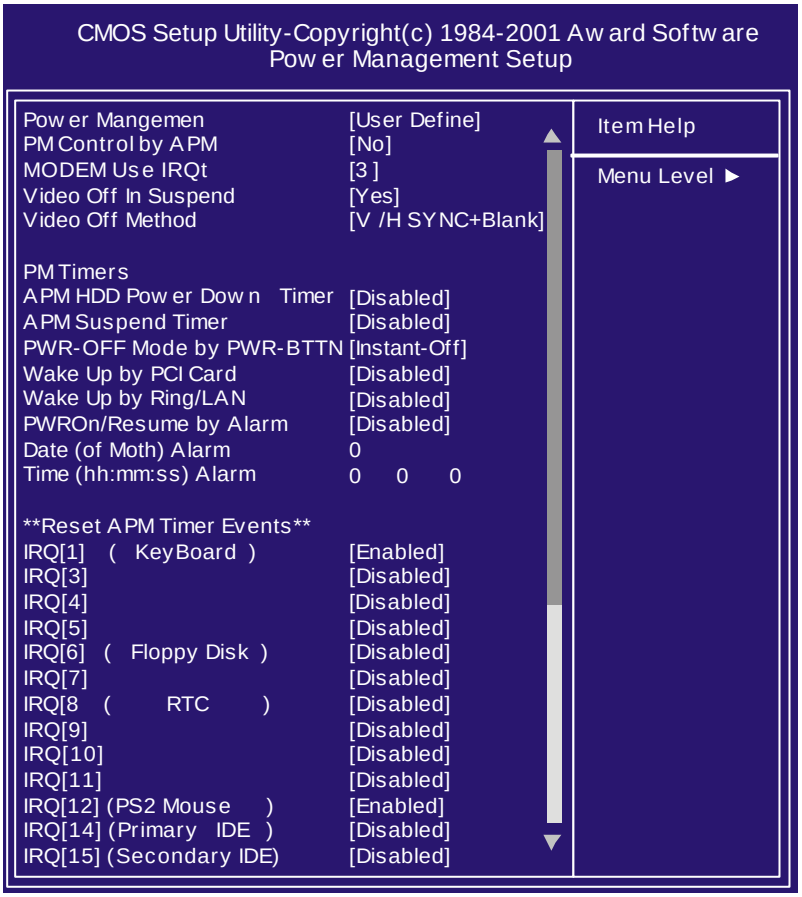
ECP Mode Use DMA

When the Parallel Port Mode field is configured as ECP, ECP+EPP mode, it needs a DMA channel for data transfer. This field specifies the DMA channel for ECP parallel port use.

[1:Use DMA channel 1]

[3**(Default Value):**Use DMA channel 1]

Power Management Setup



Each power-saving mode has a respective timer. The value of the timer can be assigned or reloaded and it will count down to zero. When the timer equals to zero, the system will be forced into the related suspend or power-saving mode. If any predefined signal or event is detected during the timer counting period, the timer restarts automatically.

Power Management

This feature allows the user to select the default parameters for the power-saving mode.

Min Saving:

When idle for one hour,the system enters suspend mode.

Max Saving:

When idle for fifteen minutes, the system enters suspend mode.

User Define**(Default Value):**

User can specify the time the system enters suspend mode.

PM Control by APM

Setting to enabled, an Advanced Power Management (APM) protocol will be activated to handle the power-saving mode.

[NO**(Default Value)**,Yes]

MODEM Use IRQ

This determines the IRQ in which the MODEM can use.

[NA, 3 (Default Value),4,5,7,9,10,11]

Video Off In Suspend

This determines the manner in which the monitor is blanked.

[NO , Yes **(Default Value)**]

Video off Method

V/H SYNC+Blank **(Default Value):**

Turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.

Blank Screen:

Write blanks to the video buffer only.

DPMS:

Initial display power management signaling with DPMS.

APM HDD Power Down Timer

This field specifies the time the system enters HDD power down. It is available only when the Power Management field is set to User Define.

[1Min,2Min,3Min,4Min,5Min,6Min,7Min,8Min,9Min,10Min,11Min, 12Min,13Min,14Min,15Min, Disabled**(Default Value)**]

APM Suspend Timer

This field specifies the time the system enters power-saving mode. It is available only when the Power Management field is set to User Define.

[1Min,2Min,4Min,8Min,12Min,20Min,30Min,40Min,1Hour,

Disabled**(Default Value)**]

PWR-Off Mode by PWR-BTTN

This field specifies the function of power button.

Instant-Off **(Default Value)**:

When power button pressed, the system turns off immediately,

Delay4 Sec:

After the power button has been pressed and held for four seconds,the system turns off.

Wake up by PCI card

When enabled , you can "wake-up" your system using PCI rev.2.2 card , when a "PME" event occuring.

[Enabled,Disabled**(Default Value)**]

Wake up by Ring / LAN

When enabled , the system can " power-on" or "wake-up" through LAN (Local Area Network) or an external modem connected to the PC.

[Enabled,Disabled**(Default Value)**]

PWROn / Resume by Alarm

When enabled , you can set the date and time to automatically "power-on" or "wkae-up" your PC (similar to an alarm clock).

Enabled:

Setting to Date (0-31) and Timer (hr,min,sec) to power-on the PC. When date is set to 0, the Timer is set for every day.

Disabled **(Default Value):**

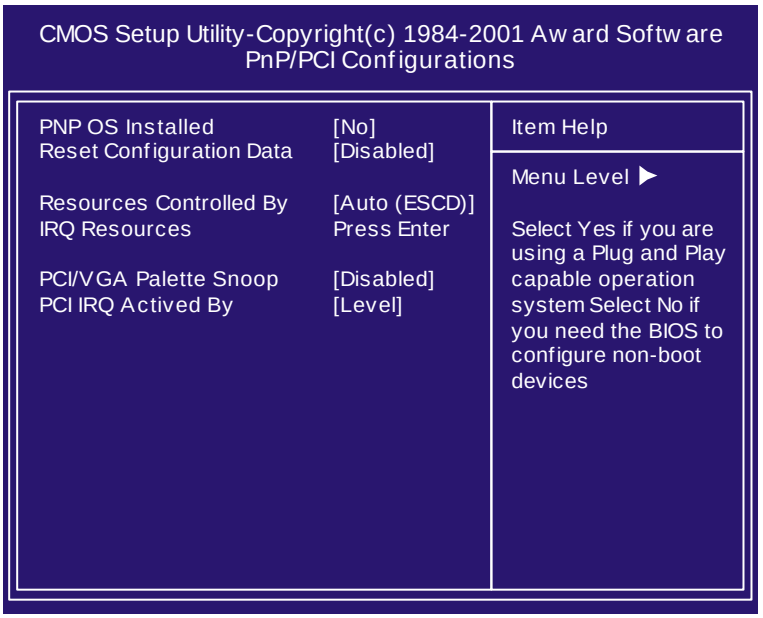
Disable RTC alarm function.

IRQ1~IRQ14

If set to Enabled, the specified IRQ line will prevent the system from entering power saving modes.

Enables or disables the monitoring of the specified IRQ line.

PnP/ PCI Configurations



PNP OS Installed

The field specifies whether a Plug and Play operating system is installed.

[Yes, No**(Default Value)**]

Reset Configuration Data

Normally, you leave this field Disabled. Select Enabled to reset Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the operating system can not boot.

[Enabled,Disabled**(Default Value)**]

Resources Controlled By

The Award Plug and Play BIOS has the capacity to automatically configure all the boot and Plug and Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play operating system such as Windows98/95/ NT. If you set this field to "manual" choose specific resources by going into each of the sub menu that follows this field (a sub menu is preceded by a "Ø").

[Manual:Resources controlled by the user.]

[Auto(ESCD) **(Default Value)**:Resources controlled by BIOS automatically.]

IRQ Resources

Press<Enter> and you will enter the sub-menu of this item.

This item is adjustable only when **Resources Controlled By** is set to Manual.

PCI / VGA Palette Snoop

This field controls the ability of a primary PCI graphics controller to share a common palette with an ISA/VESA video or MPEG card.

[Enabled:PCI VGA co-works with ISA MPEG card.]

[Disabled **(Default Value):** All cases except above.]

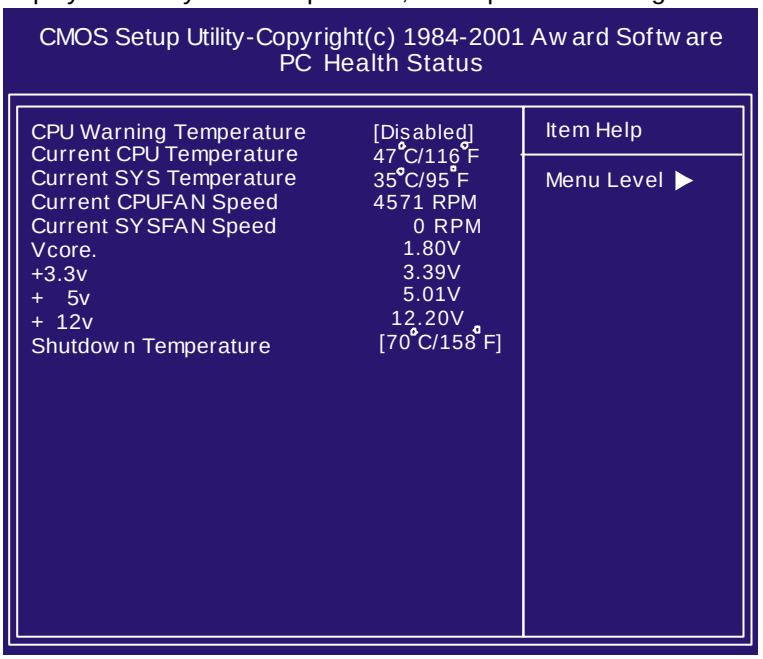
PCI IRQ Actived By

This sets the method by which the PCI bus recognizes that an IRQ service is being requested by a device. Under all circumstances, you should retain the default configuration unless advised otherwise by your system's manufacturer.

[Level **(Default Value)**,Edge]

PC Health Status

This page is the current status of your computer. On the screen displays CPU/System temperature, FAN speed and voltages.

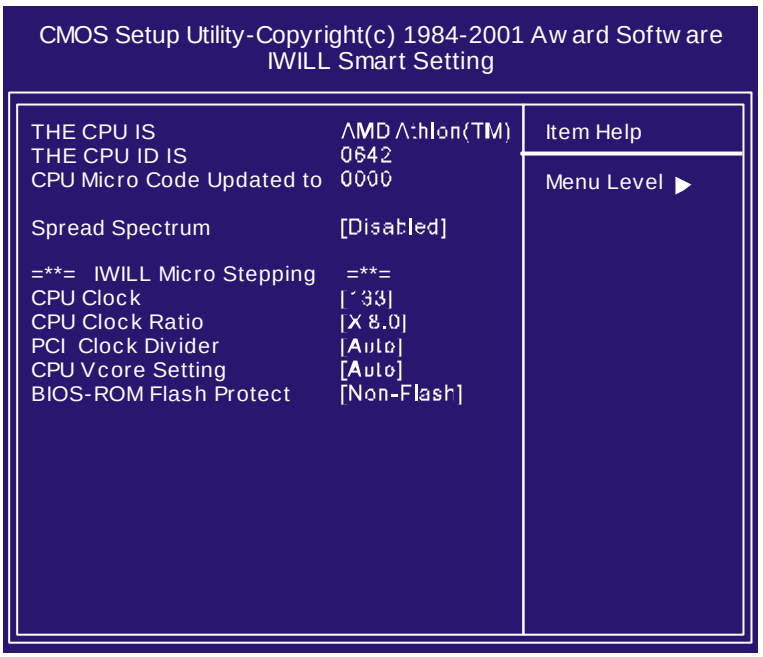


CPU Warning Temperature

When CPU temperature reaches the specified standard , the system will issue a warning and allows you to prevent the CPU overheat problem.

[Disabled **(Default Value),**50*C/122*F,53*C/127*F,56*C/13*F, 60*C/147*F,63*C/145*F,66*C/151*Fand 70*C/158*F]

Iwill Smart Setting



Over-clocking is not guaranteed. Users must have substantial knowledge of proper CPU relative to adjusting CPU speeds. Over-clocking should be done only by experienced engineers who conduct tests.

Iwill MicroStepping

MicroStepping

Microstepping is Iwill's another step forward to provides users a fuss free CPU frequency set up procedure. It contains two main functions, Auto Detecting CPUs speed and Micro Adjustable CPU FSB speed.

Auto Detecting CPU speed:

IWILL MicroStepping will auto detect the CPU's factory multiplier setting and CPU FSB to the factory default. This function provides a "fuss free" CPU set up process for the general users.

Micro Adjustable CPU FSB speed:

IWILL provides a user friendly overclocking function that allows users to experience the fun of overclocking. This function allows user to adjust CPU FSB by 1MHz interval. This is particularly useful when user wants to extract the most out of the purchased CPU. For example: you select from 133, 134, 135, 136, 137, 138MHz and up to the maximum speed that the system can sustained.

In the time should overclocking failed, MicroStepping will auto detects the CPU's factory multiplier setting and set the CPU FSB to default 66MHz, to protect the CPU installed.

To understand how does CPU works, and how does it related to FSB and multiplier, here is the example:

CPU speed = FSB x Multiplier (CPU Ratio)

800Mhz = 100Mhz x 8

Spread Spectrum

This item configures radiation emitted from the system. When enabled, system will release less radiation.

[Enabled,Disabled **(Default Value)**]

PCI Clock Divider

This item is PCI clock frequency.

For example: Auto =>automatically

CPU/3 => CPU=100,100/3=33.3

CPU/4 => CPU=133,133/4=33.3

[Auto **(Default Value)**,CPU/3,CPU/4]

CPU Vcore Setting

This item display the current status of CPU voltages.

[Auto **(Default Value),** 1.125V, 1.150V, 1.175V, 1.200V,1.225V, 1.250V,1.275V,1.300V,1.325V,1.350V,1.375V,1.400V,1.425V, 1.450V,1.525V,1.550V,1.575V,1.600V,1.625V,1.650V,1.675V, 1.700V,1.725V,1.750V,1.775V,1.800V,1.825V,1.850V]

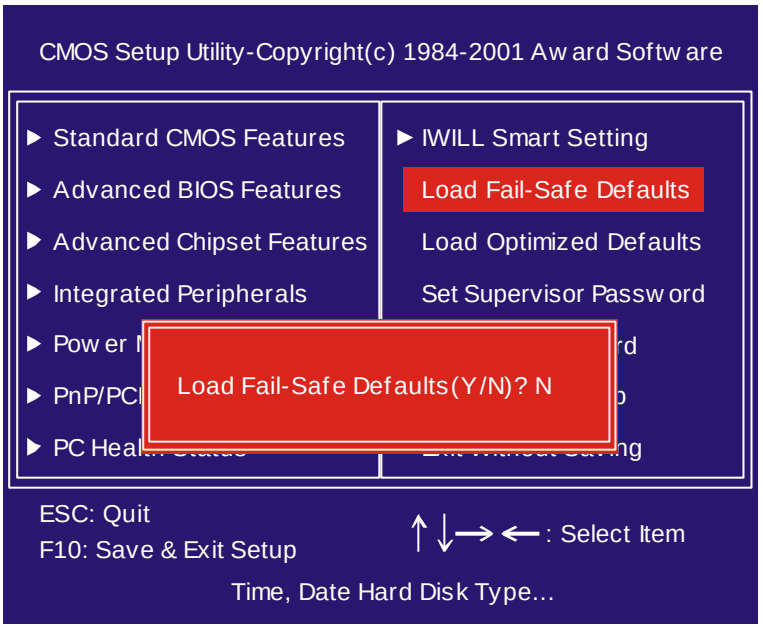
BIOS-ROM Flash Protect

When select"Non flash", the BIOS ROM chip will be protecte to prerent injuring by Virus "please don't select Flashable" until you have to upgrade the latest BIOS.

[Non flash **(Defult Value)**,Flashable]

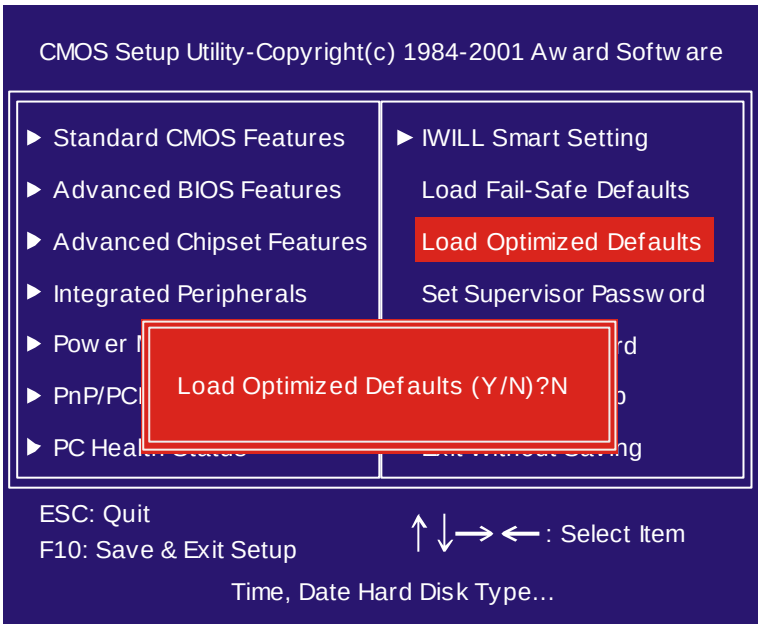
Load Fail Safe Defaults

When you press <Enter> on this item you get a confirmation dialog box with a message similar to: Pressing **'Y'** loads the BIOS default values for the most stable, minimal-performance system operations.



Load Optimized Defaults

When you press <Enter> on this item you get a confirmation dialog box with a message similar to:

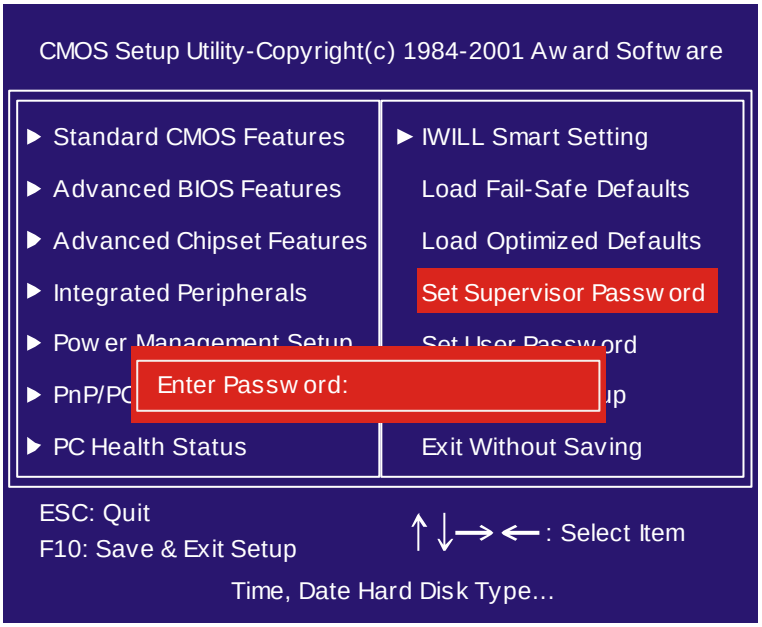


Set Supervisor/ User Password Setting

These setup pages are used for password setting. When a password has been enabled and the Security Option field is set as Setup, you will be required to enter the password every time you try to enter BIOS Setup program. This prevents an unauthorized person from changing any part of your system configuration. Additionally, if the Security Option field is set as Boot, the BIOS will request a password every time your system boot. This would prevent unauthorized use of your computer.

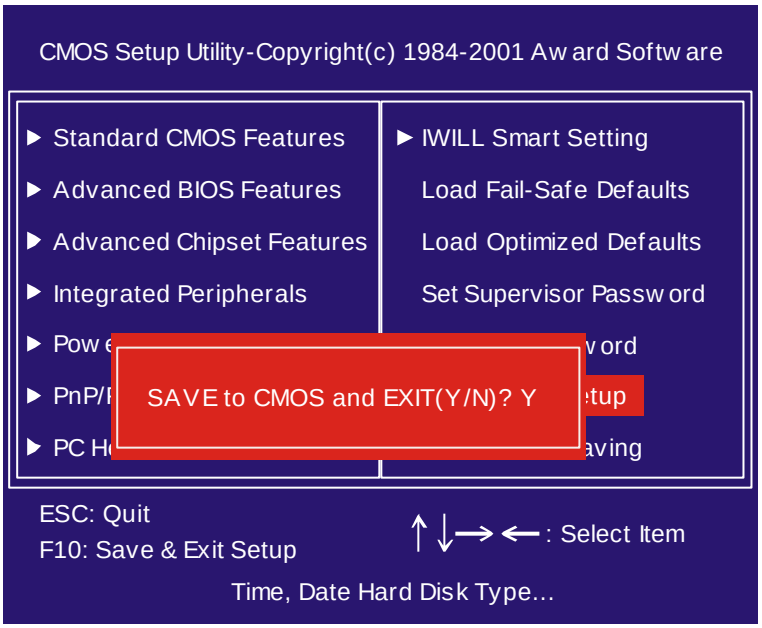
If you wish to use this function, bring the cursor to this field, then press <Enter>. The computer will display the message, “Enter Password”. Type your password and press <Enter>. After the message onfirm Password” is displayed, re-type your password. The Supervisor Password function will be in effect after you save and exit setup.

To disable a password, bring the cursor to this field, then press <Enter>. The computer will display the message, “Enter Password”. Press <Enter>. Amessage will confirm that the password is disabled. Once the password is disabled, the system will boot and you can enter setup program freely.



Save & Exit Setup

Save current CMOS value and exit BIOS setup program.



Exit Without Saving

Abandons all CMOS value changes and exits BIOS setup program.