

Introduction

A10TMB series of mainboards utilize VIA VT82C694T+VT82C686B chipset, providing a fully compatible, high performance and cost-effective mATX platform. The new integrated technologies, one AGP 4X slot, four USB ports and ATA100/66/33, give customers an advanced, multimedia solution at reasonable price. It support Intel Socket 370 processors and the PC66/100/133MHZ memory. Suspending to RAM, the optimal implementation of the Advanced Configuration and Power Interface makes the PC's power consumption drop to the lowest possible level and enable quick wakeup.

Form factor

- mATX form factor of 240mm x 220mm

Microprocessor

- Supports Intel Socket 370 CPU
- Supports Coppermine and Tualatin PIII
- Supports 66/100/133MHz FSB speed

System memory

- Supports PC66/100/133MHZ SDRAM
- Supports 64/128/256/512Mb technology up to 1GB
- Provides two 168-pin DDR SDRAM interfaces

Onboard IDE

- Supports ATA 33/66/100
- Two fast IDE interfaces supporting four IDE devices

Onboard LAN(optional)

- 10/100 Mbit/sec Ethernet support
- 10/100M LAN interface built-in on board

USB 1.0

- Provides 4 USB 1.0 ports

Onboard I/O

- One floppy port supporting up to one 3.5" floppy drives with 1.44M format
- Two high speed 16550 compatible COM with 16 byte send/receive FIFO
- Supports PS/2 mouse and PS/2 keyboard header
- Provides one IrDA connector
- All I/O ports can be enabled/disabled in the BIOS setup

AGP Interface

- Provides one integrated AGP unit
- AGP connector supports AGP 2.0 including AGP 4X data transfers

Advanced features

- PCI 2.2 Specification Compliant
- Supports Windows 98/2000/ME/XP soft-off

BIOS

- Licensed advanced AWARD(Phoenix) BIOS, supports flash ROM, plug and play ready
- Supports IDE CDROM/USB boot up.

Green function(optional)

- Supports ACPI power status: S0 (full-on), S1 (power on suspend), S3 (suspend to RAM), S4(suspend to Disk, depends on OS) and S5 (soft-off)

Main Expansion Slots and Connectors

Slot/Port (Quantity)	Description
PCI(3)	PCI slots
IDE(2)	IDE ports
FLOPPY(1)	Floppy Drive port
DDR(2)	DIMMsocket
USB(4)	USB connectors
AGP(1)	AGP slot
LAN(1)	LAN connector
COM(2) (optional)	COM connector
PARALLEL(1)	Parallel connector
IrDA(1)	IrDA connector

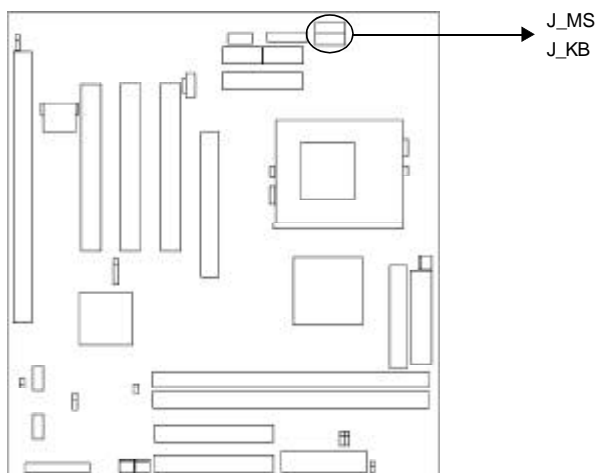
Installation Instructions

This section covers External Connectors and Jumper Settings. Refer to the mainboard layout chart for locations of all jumpers, external connectors, slots and I/O ports. Furthermore, this section lists all necessary connector pin assignments for your reference. The particular state of the jumpers, connectors and ports are illustrated in the following figures. Before setting the jumpers or inserting these connectors, please pay attention to the direction.

PS/2 Keyboard/Mouse Connector

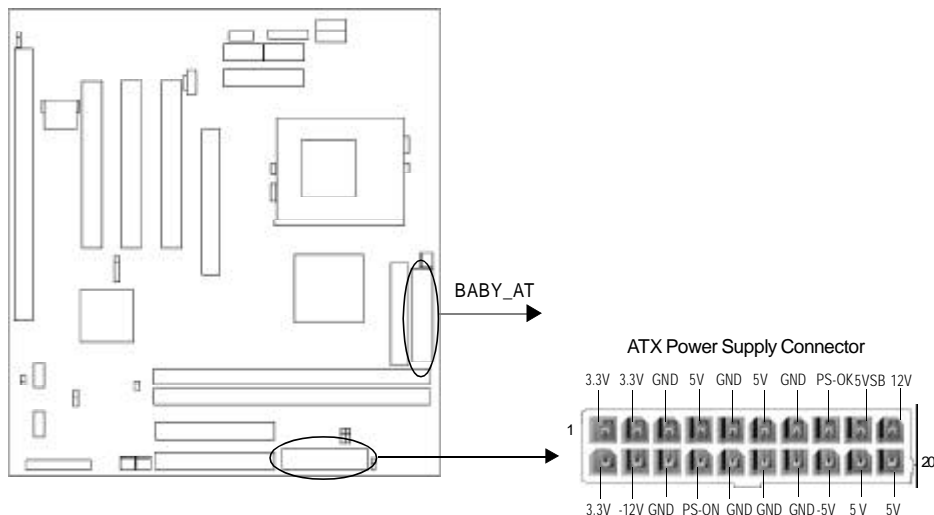
PS/2 keyboard connector is for the usage of PS/2 keyboard.

PS/2 mouse connector is for the usage of PS/2 mouse.



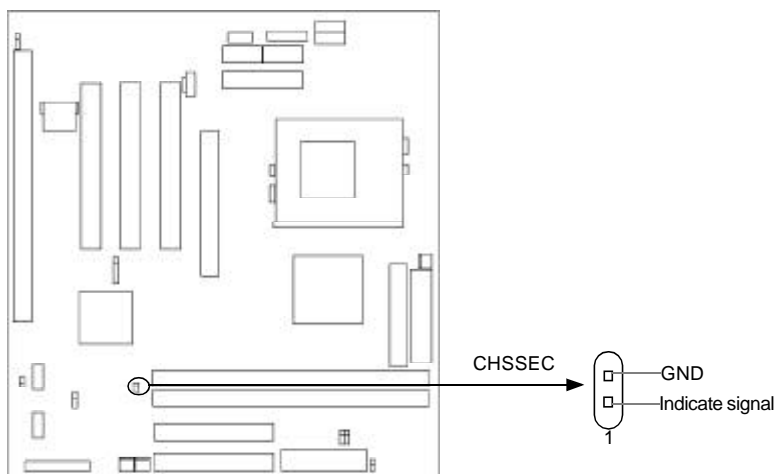
ATX Power Supply Connector & BABY_AT

The power switch (POWER SW) should be connected to a momentary switch. When powering up your system, first turn on the mechanical switch of the power supply (if one is provided), then push once the power switch. When powering off the system, you needn't turn off the mechanical switch, just push once the power switch.



Chassis Security Switch (CHSSEC)

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 record the status and indicate the chassis has been opened. You can monitor or check this information from some software.



Hard Disk LED Connector (HD_LED)

The connector connects to the case's IDE indicator LED indicating the activity status of IDE hard disk. The connector has an orientation. If one way doesn't work, try the other way.

Reset Switch (RESET)

The connector connects to the case's reset switch. Press the switch once, the system resets.

Speaker Connector (SPEAKER)

The connector can be connected to the speaker on the case.

Power LED Connector (PWR_LED)

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. The connector has an orientation.

GREEN LED Connector (GREEN_LED)

When the system is in S0,S1,S4 ,S5 status, the LED is off,When the system is in S3 status, the LED is on.

ACPI LED Connector (ACPI_LED)

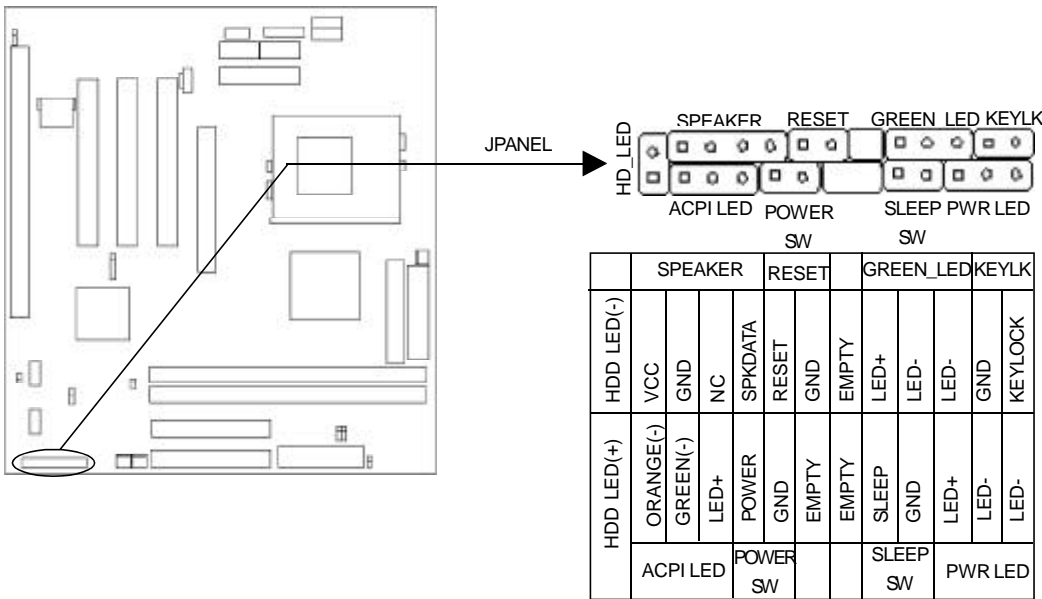
The ACPI LED is a dual-color light with three pins. Pin1and Pin2 drive different color lights.If Pin1 drives the orange light , then, Pin2 drives the green light, the following status will come out. When the system is in S0 status, the LED is green on. When the system is in S1 status, the LED is green blink. When the system is in S3 status, the LED is orange on. When the system is in S4, S5 status, the LED is off.

Hardware Green Connector (SLEEP_SW)

Push once the switch connected to this header, the system enters suspend mode.

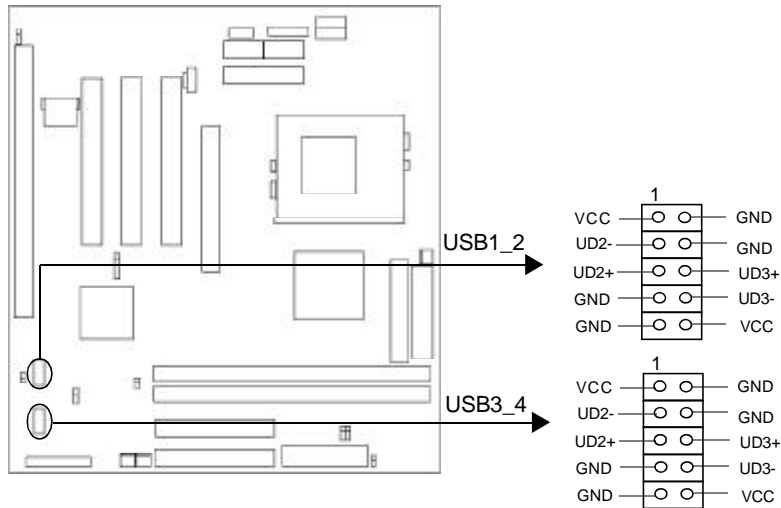
Key Lock Connector (KEYLK)(Reserved)

The connector can be connected to the keyboard lock switch on the case for locking the keyboard.



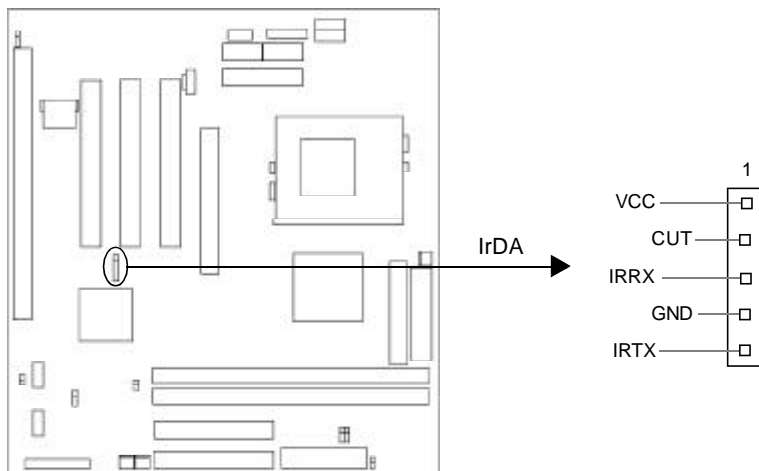
USB1_2; USB3_4

A10TMB series of mainboards have 10-pin headers on board which may connect to front panel USB cable(optional) to provide additional four USB ports.

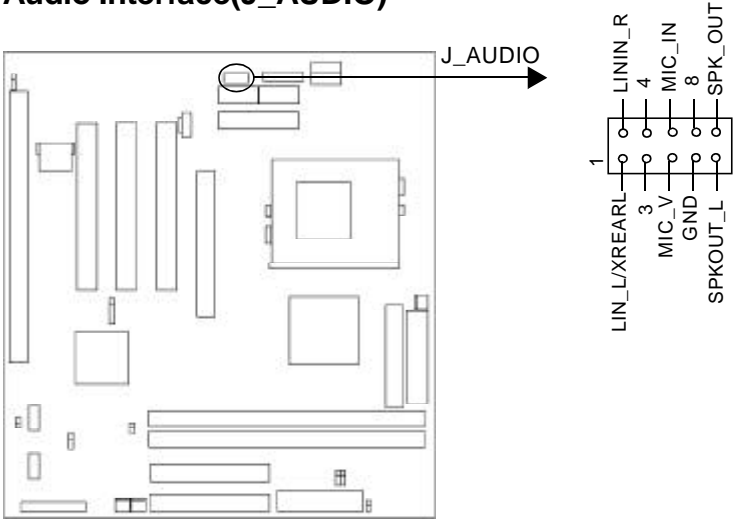


Infrared Header (IrDA)

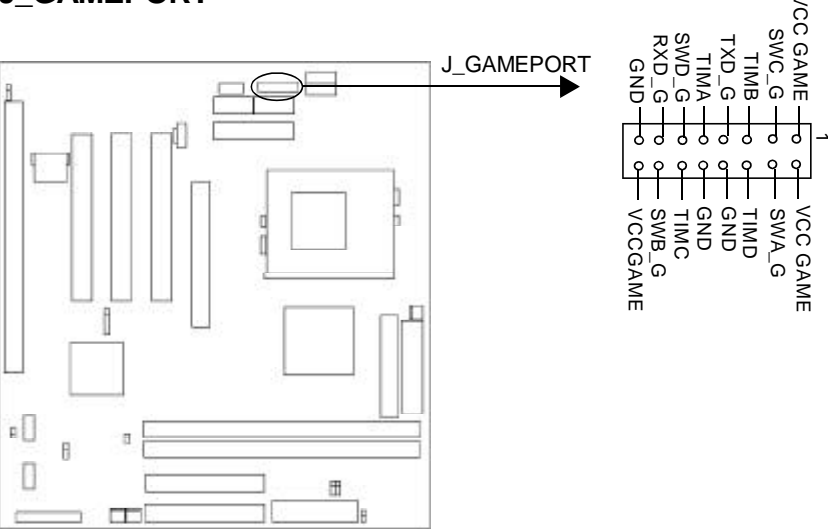
This connector supports wireless transmitting and receiving device. Before using this function, configure the settings for IR Address, IR Mode and IR IRQ from the “INTEGRATED PERIPHERALS” section of the CMOS SETUP.



Audio Interface(J_AUDIO)

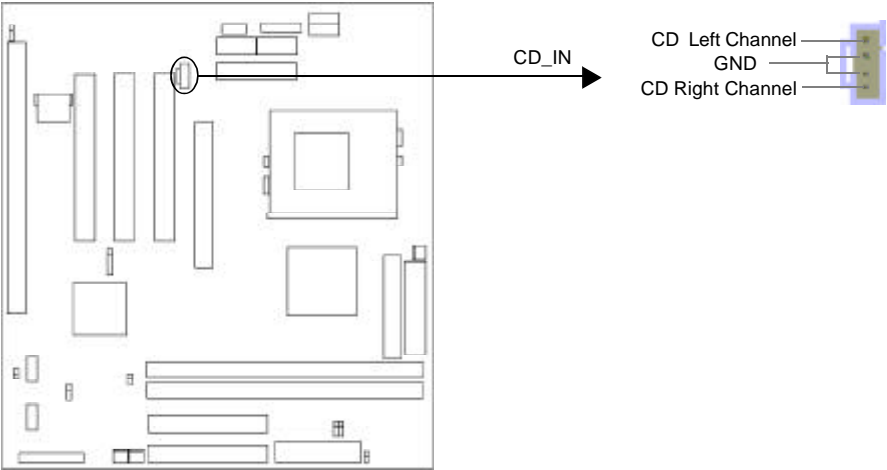


J_GAMEPORT












Audio Connectors (CD_IN)

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



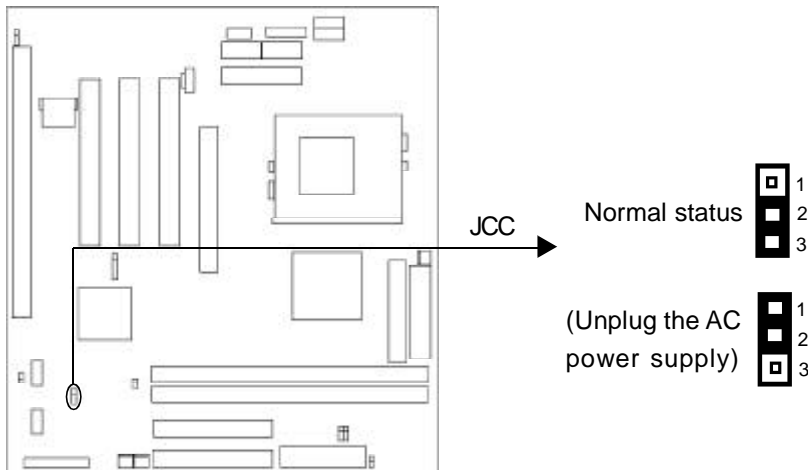
Jumper Settings

Jumpers are located on the mainboard, the clear CMOS jumper JCC, enable keyboard password power-on function jumper JKB etc. Pin 1 for all jumpers are located on the side with a thick white line (Pin1→ ), referring to the mainboard's silkscreen. Jumpers with three pins will be shown as  to represent pin1 & pin2 ("1-2") closed and  to represent pin2 & pin3 ("2-3") closed.

Jumper	Symbol	Description	Represent
		1-2	set pin1 and pin2 closed
		2-3	set pin2 and pin3 closed
		close	set the pins closed
		open	set the pins opened

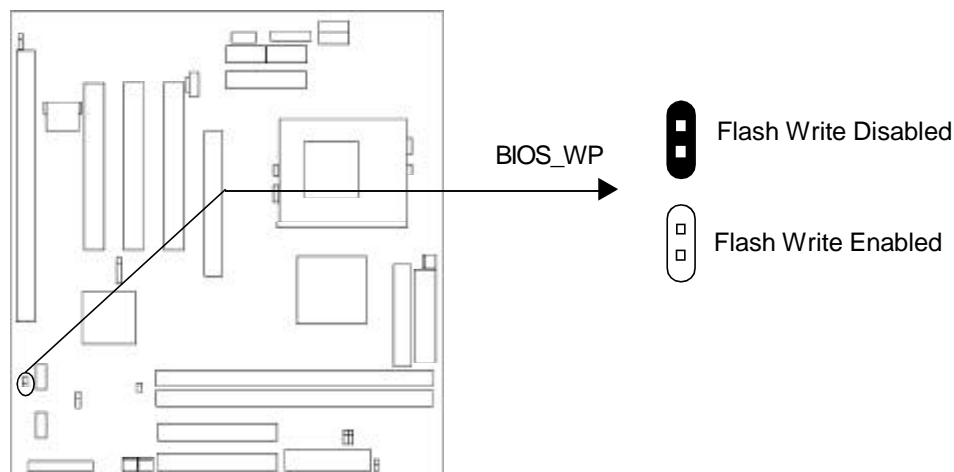
Clear CMOS (JCC)

If you want to clear CMOS, unplug the AC power supply first, close JCC (pin1& pin2) once, set JCC back to the normal status with pin2 & pin3 connected, then power on the system.



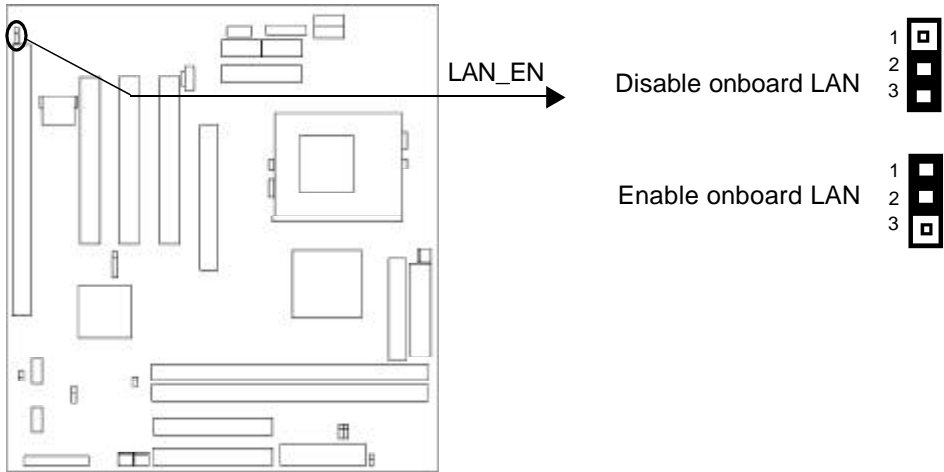
BIOS-Protection Jumper (JAV)

If the jumper JAV is set as closed, the system BIOS is protected from being attacked by serious virus such as CIH virus, you will be unable to flash the BIOS to the mainboard in this status.



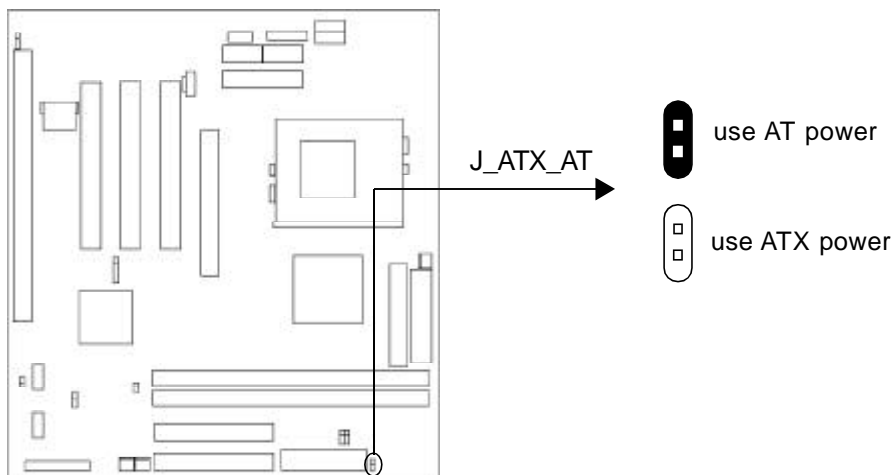
Onboard LAN (LAN_EN)

If you want to use the onboard LAN, set LAN_EN with pin1&pin2 closed, Otherwise, set LAN_EN with pin2&pin3 closed for disable this fuction.

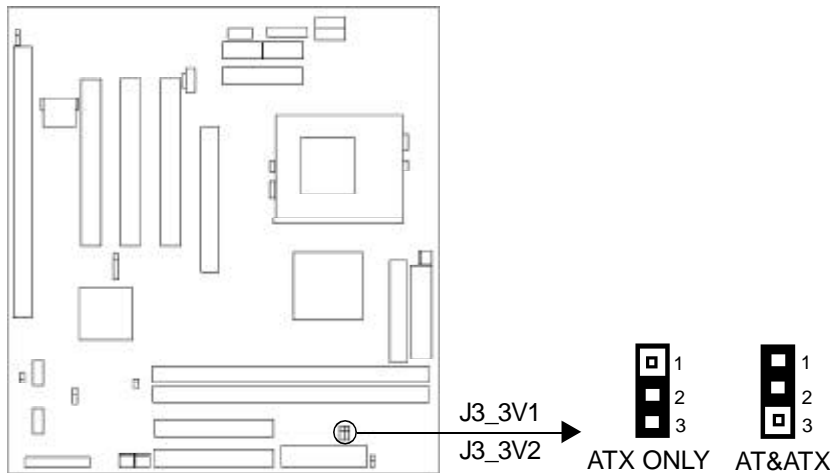


J_ATX_AT

If the jumper J_ATX_AT is set as closed, the mainboard use AT power; otherwise, the ATX power is supplied.



J3_3V1,J3_3V2



BIOS Description

The mainboard uses AWARD BIOS Setup program that provides a Setup utility for users to modify the basic system configuration. The information is stored in CMOS RAM so it retains the Setup information even if the power is turned off. This chapter provides you with the overview of the BIOS Setup.

AWDFLASH.EXE

This is a flash memory write/read utility used for the purpose of upgrading your BIOS when necessary. Before doing so, please note:

We strongly recommend you only upgrade BIOS when encounter problems.

- **Before upgrading your BIOS, review the description below to avoid making mistakes, destroying the BIOS and resulting in a non-working system.**

When you encounter problems, for example, you find your system does not support the latest CPU released after our current mainboard, you may therefore upgrade the BIOS, please don't forget to set BIOS_WP as open and disable the "Flash Write Protect" item in AWARD BIOS CMOS Setup first .

Follow the steps exactly for a successful upgrade.

1. Create a bootable system floppy diskette by typing Format A:/s from the DOS prompt under DOS6.xx or Windows 9x environment.
2. Copy AWDFLASH.EXE(version>=8.24) from the directory \Utility located on QDI Utility CD to your new bootable diskette.
3. Download the updated BIOS file from the Website (<http://www.qdigrp.com>). Please be sure to download the suitable BIOS file for your mainboard.
4. Decompress the file download, copy the BIOS file (xx.bin) to the bootable diskette, and note the checksum of this BIOS which is located in readme file.
5. Reboot the system from the bootable diskette created.
6. Then run the AWDFLASH utility at the A:\ prompt as shown below:

```
A:\AWDFLASH xxxx.bin
```

Follow the instruction through the process. Don't turn off power or reset the system until the BIOS upgrade has been completed.

If you require more detailed information concerning AWDFLASH Utility, for example, the different usage of parameters, please type A:\>AWDFLASH /?

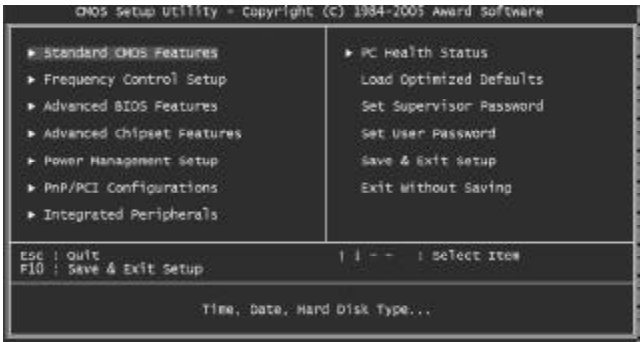
AWARD BIOS Description

Entering Setup

Power on the computer, when the following message briefly appears at the bottom of the screen during the POST (Power On Self Test), press key to enter the AWARD BIOS CMOS Setup Utility.

Press to enter SETUP

When you have entered, the Main Menu appears on the screen. Use the arrow keys to select among the items and press the <Enter> key to accept or enter the sub-menu.



Main Menu

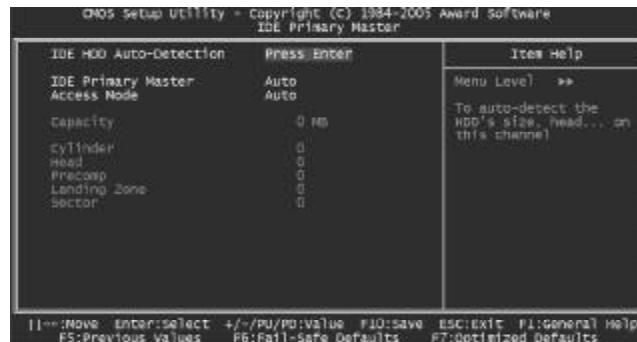
Standard CMOS Features Setup

The basic CMOS settings included in “Standard CMOS Features” are Date, Time, Hard Disk Drive Types, Floppy Disk Drive Types etc. Use the arrow keys to highlight the item, then use the <PgUp> or <PgDn> keys to select the value desired in each item.



Standard CMOS Features Menu

For the items marked, press enter, a window will pop up as shown below. You can view detailed information or make modifications.



IDE Primary Master Setup Menu

Hard Disk

Primary Master/Primary Slave/Secondary Master/Secondary Slave

These categories identify the HDD types of 2 IDE channels installed in the computer system. There are three choices provided for the Enhanced IDE BIOS: None, Auto, and Manual. 'None' means no HDD is installed or set; 'Auto' means the system can auto-detect the hard disk when booting up; by choosing 'Manual', the related information should be entered regarding the following items. Enter the information directly from the keyboard and press < Enter>:

CYLS	number of cylinders	HEAD	number of heads
PRECOMP	write pre-compensation	LANDZ	landing zone
SECTOR	number of sectors	MODE	HDD access mode

Frequency Control Setup

This section describes frequency control technology.

Advanced BIOS Features

This section allows you to configure your system for basic operation. You have the opportunity to select the system's default speed, boot-up sequence, keyboard operation, shadowing and security.

Advanced Chipset Features

The chipset features setup is used to change the values of the chipset registers. The registers control most of the system options in the computer.

Power Management Setup

The power management setup menu allows you to configure system to most save energy while operating in a manner consistent with your own style of computer use.

PnP/PCI Configurations

This section describes how to configure the PCI bus system. This section covers some very technical items and it is recommended that only experienced users should make any changes to the default setting.

Integrated Peripherals

The integrated peripherals setup allows user to configure the onboard IDE controller, floppy disk controller, the printer port and the serial ports etc..

PC Health Status

The PC health status display CPU and case fan speed.

Set Supervisor/User Password

Changes, sets, or disables password. It allows you to limit access to the system and the setup program. When this function is selected, the following message appears at the center of the screen to assist you in creating a password.

ENTER PASSWORD

Type the password, up to eight characters, and press <Enter>. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection.

To disable password, just press <Enter> when you are prompted to enter password. A message will confirm the password being disabled. Once the password is disabled, the system will boot and you can enter BIOS Setup freely.

PASSWORD DISABLED

If you have selected “**System**” in “Security Option” of “BIOS Features Setup” menu, you will be prompted for the password every time the system reboots or any time you try to enter BIOS Setup.

If you have selected “**Setup**” at “Security Option” from “BIOS Features Setup” menu, you will be prompted for the password only when you enter BIOS Setup.

Supervisor Password has higher priority than User Password. You can use Supervisor Password when booting the system or entering BIOS Setup to modify all settings. Also you can use User Password when booting the system or entering BIOS Setup but can not modify any setting if Supervisor Password is enabled.

Load Optimized Defaults

The Optimized Defaults are common and efficient. It is recommended users load the optimized defaults first, then modify the needed configuration settings.

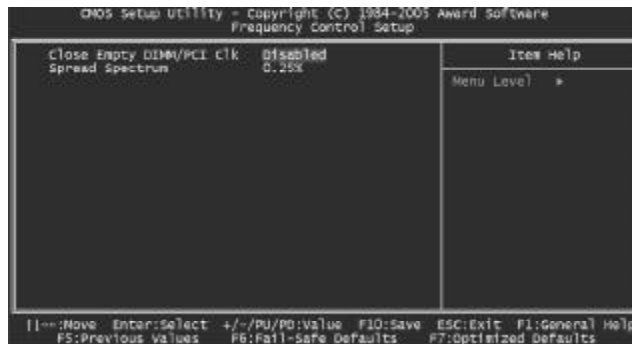
Save & Exit Setup

Saves value changes to CMOS and exits setup.

Exit Without Saving

Abandons all CMOS value changes and exits setup.

Frequency Control Setup

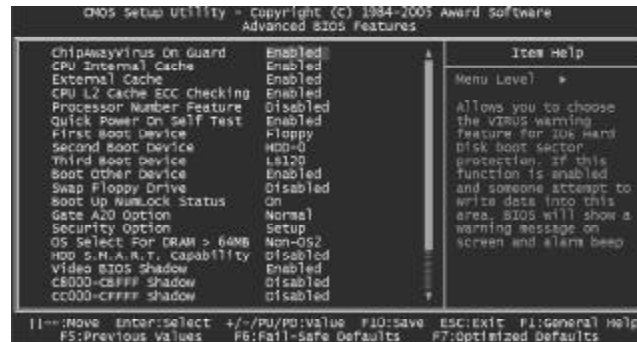


Frequency Control Setup Menu

The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
● Close Empty DIMM/PCI Clk	<i>Enabled</i>	Close empty DIMM or PCI clock to reduce EMI.
	<i>Disabled</i>	Do not close empty DIMM or PCI clock.
● Spread Spectrum	<i>0.25%</i>	Enable Clock Spread Spectrum to reduce EMI.
	<i>0.5%</i>	Enable Clock Spread Spectrum to reduce EMI.
	<i>Disabled</i>	Disable this function.

Advanced BIOS Features



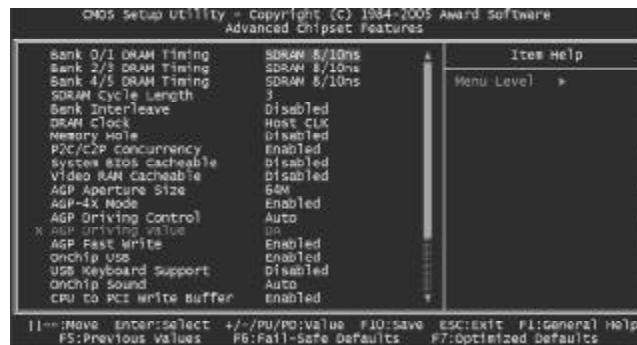
Advanced BIOS Features Menu

The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
● ChipAwayVirus on Guard	<i>Enabled</i>	Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep.
	<i>Disabled</i>	Invalidates this function.
● CPU Internal Cache	<i>Enabled</i>	Enable CPU internal cache.
	<i>Disabled</i>	Disable CPU internal cache.
● External Cache	<i>Enabled</i>	Enable external cache.
	<i>Disabled</i>	Disable external cache.
● CPU L2 Cache ECC Checking	<i>Enabled</i>	Enables CPU L2 Cache ECC function.
	<i>Disabled</i>	Disables CPU L2 Cache ECC function.
● Processor number feature	<i>Enabled</i>	Processor Number can be readable.
	<i>Disabled</i>	Processor Number can be unreadable.
● Quick Power On Self Test	<i>Enabled</i>	Allow the system to skip certain tests while booting. On Self Test This will decrease the time needed to boot the system.
	<i>Disabled</i>	Normal POST.
● First(Second, Third) Boot Device	<i>Disabled</i>	Select your boot device priority, It could be Floppy, LS120, HDD-0, SCSI, CDROM, HDD-1, HDD-2, HDD-3, ZIP100, LAN, Disabled.
	<i>Floppy</i>	
	<i>... ..</i>	
	<i>LAN</i>	

• Boot other Device	<i>Enabled</i> <i>Disabled</i>	Boot other device. Invalidate this feature.
• Swap Floppy Drive	<i>Enabled</i> <i>Disabled</i>	If the system has two floppy drives, choose enable to assign physical drive B to logical drive.
• Booy Up Numlock Status	<i>On</i> <i>Off</i>	Select power on state for numlock.
• Gate A20 Option	<i>Normal</i> <i>Fast</i>	Let chipset control GateA20 and Normal - a pin in the keyboard controller controls GateA20.
• Security Option	<i>Setup</i> <i>System</i>	Select whether the password is required every time the system boot or only when you enter setup.
• OS Select For DRAM>64MB	<i>Non-OS2</i> <i>OS2</i>	Select OS2 only if you are running OS/2 operating system with more than 64MB of RAM.
• HDD S.M.A.R.T. Capability	<i>Enabled</i> <i>Disabled</i>	Enable hard disk S.M.A.R.T. support. Invalidate this feature.
• Video BIOS Shadow	<i>Enabled</i> <i>Disabled</i>	Video BIOS will be copied to RAM. Video Shadow will increase the video speed. Invalidates this feature.
• Delay for HDD(Secs)	<i>Min=0</i> <i>Min=3</i>	Select delay time for HDD.

Advanced Chipset Features



Advanced Chipset Features Menu

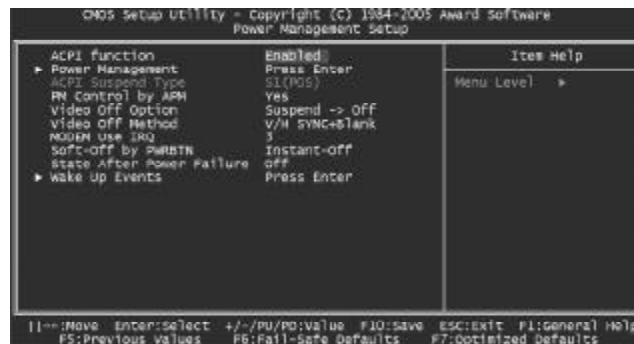
The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
• Bank 0/1 DRAM Timing	SDRAM 8/10ns Normal Medium Fast Turbo	Select bank 0/1 DRAM timing.
• Bank 2/3 DRAM Timing	SDRAM 8/10ns Normal Medium Fast Turbo	Select bank 2/3 DRAM timing.
• Bank 4/5 DRAM Timing	SDRAM 8/10ns Normal Medium Fast Turbo	Select bank 4/5 DRAM timing.
• SDRAM Cycle length	3 2 Auto	Select SDRAM cycle length.
• Bank Interleave	4 Bank 2 Bank Disabled	Select bank interleave.
• DRAM Clock	Host clk Hclk-33M Hclk+33M	Select DRAM clock.
• Memory Hole	15M-16M Disabled	Memory hole at 15-16M is reserved for expanded ISA card. Do not set this memory hole.

• P2C/C2P Concurrency	<i>Enabled</i> <i>Disabled</i>	Enables P2C/C2P concurrency. Disables P2C/C2P concurrency.
• System BIOS Cacheable	<i>Enabled</i> <i>Disabled</i>	Besides conventional memory, system BIOS area is also cacheable. Video BIOS area is not cacheable.
• Video RAM Cacheable	<i>Enabled</i> <i>Disabled</i>	Besides conventional memory, video RAM area is also cacheable. Video RAM area is not cacheable.
• AGP Aperture Size	<i>4/8/16/32/64</i> <i>/128MB</i>	Set the effective size of the Graphics Aperture to be used in the particular GART Configuration.
• AGP-4X Mode	<i>Enabled</i> <i>Disabled</i>	Enables AGP 4X mode. Disables AGP 4X mode.
• AGP Driving Control	<i>Auto</i> <i>Manual</i>	The default setting is recommended.
• AGP Driving Value	<i>00-FF</i>	Sets this item when the AGP 4X card runs incorrectly.
• AGP Fast Write	<i>Enabled</i> <i>Disabled</i>	Enables AGP Fast Write. Disables AGP Fast Write.
• OnChip USB	<i>Enabled</i> <i>Disabled</i>	Enables Onchip USB controller. Disables Onchip USB controller.
• USB Keyboard Support	<i>Enabled</i> <i>Disabled</i>	Supports USB keyboard under legacy OS. Does not support USB keyboard under legacy OS.
• OnChip Sound	<i>Auto</i> <i>Disabled</i>	Enables Onchip sound. Disables Onchip sound.
• CPU to PCI Write Buffer	<i>Enabled</i> <i>Disabled</i>	Enables CPU to PCI write buffer. Disables CPU to PCI write buffer.
• PCI Dynamic Bursting	<i>Enabled</i> <i>Disabled</i>	Enables PCI dynamic bursting. Disables PCI dynamic bursting.
• PCI Master 0 WS Write	<i>Enabled</i> <i>Disabled</i>	Enables PCI Master 0 WS Write. Disables PCI Master 0 WS Write.
• PCI Delay transaction	<i>Enabled</i> <i>Disabled</i>	Enables PCI delay transaction. Disables PCI delay transaction.
• PCI #2 Access #1 Retry	<i>Enabled</i> <i>Disabled</i>	Enables PCI #2 access #1 retry. Disables PCI #2 access #1 retry.

• AGP Master 1 WS Write	<i>Enabled</i> <i>Disabled</i>	Enables AGP Master 1 WS Write. Disables AGP Master 1 WS Write.
• AGP Master 1 WS Read	<i>Enabled</i> <i>Disabled</i>	Enables AGP Master 1 WS Read. Disables AGP Master 1 WS Read.
• Memory Parity/ECC Check	<i>Enabled</i> <i>Disabled</i>	Enables memory parity/ECC check. Disables memory parity/ECC check.

Power Management Setup



Power Management Setup Menu

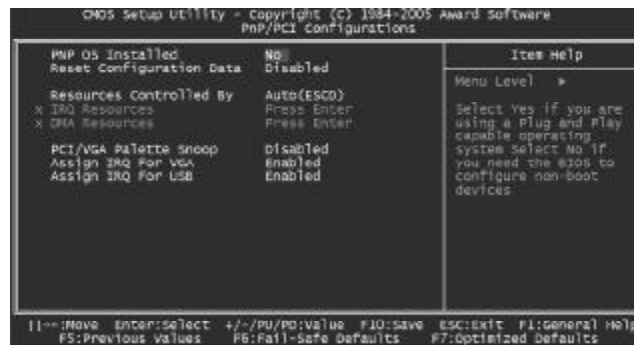
The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
• ACPI function	<i>Enabled</i> <i>Disabled</i>	Enable ACPI function. Disable this function.
• Power management	<i>Press Enter</i>	Press enter to set power management.
• Power management	<i>User define</i> <i>Min saving</i> <i>Max saving</i>	Select power management mode.
• HDD Power Down	<i>Disabled</i> <i>1 Min</i> <i>...</i> <i>15 Min</i>	Select HDD power down time.
• Doze Mode	<i>Disabled</i> <i>1/2/4/6 Min</i> <i>8/10/20Min</i> <i>30/40Min</i> <i>1 Hour</i>	Select doze mode time.
• Suspend Mode	<i>Disabled</i> <i>1/2/4/6 Min</i> <i>8/10/20Min</i> <i>30/40Min</i> <i>1 Hour</i>	Select suspend mode time.
• ACPI Suspend Type	<i>S1(POS)</i>	Select the ACPI suspend type.
• PM control by APM	<i>Yes</i> <i>No</i>	Set the pm control by APM.

• Video Off Option	<i>Suspend->Off</i> <i>Always On</i> <i>ALL Modes->off</i>	Screen blanks after the system enters either standby mode or suspend mode. Screen is always on. All modes is off.
• Video Off Method	<i>Blank Screen</i> <i>V / H SYNC + Blank</i> <i>DPMS support</i>	The system BIOS will only blank off the screen when disabling video. In addition to Blank Screen, BIOS will also turn off the V-SYNC & H - SYNC signals from VGA card to monitor. This function is enabled only for VGA cards supporting DPMS. Note: When the green monitor does not detect the V/H-SYNC signals, the electron gun will be turned off.
• MODEM Use IRQ	<i>3,4,5,7,9,10,11</i> <i>NA</i>	Special Wake-up event for Modem. This function is not applied.
• Soft-Off by PWR-BTTN	<i>Instant-Off</i> <i>Delay 4 sec</i>	The system will immediately power off once the power button is pressed. The system will power off when power button is pressed for 4 seconds.
• State After Power Failure	<i>Auto</i> <i>Off, On</i>	The system remains former state/Off/On when the AC power supply resumes.
• Wake up Events	<i>Press Enter</i>	Enters to set the following items.
• VGA	<i>On</i> <i>Off</i>	VGA active reloads global timer. VGA active has no influence to global timer.
• LPT&COM	<i>LPT, COM</i> <i>LPT/COM</i> <i>None</i>	Sets the options of these items to reload global timer. LPT&COM active has no influence to global timer.
• HDD&FDD	<i>On</i> <i>Off</i>	HDD&FDD active reloads global timer. HDD&FDD active has no influence to global timer.
• PCI Master	<i>On</i> <i>Off</i>	PCI Master active reloads global timer. PCI Master active has no influence to global timer.
• Power On by PCI Card	<i>Enabled</i> <i>Disabled</i>	Enables to wake up by PCI card. Disables to wake up by PCI card.

<ul style="list-style-type: none"> • RTC Alarm Resume 	<i>Enabled</i> <i>Disabled</i>	<p>RTC alarm can be used to generate a wake event to power up the system which is in power-off status. You can set any date or any time to power up the system. Invalidate this function.</p>
<ul style="list-style-type: none"> • Primary INTR 	<i>On</i> <i>Off</i>	<p>Allows wake-up from IRQ. Does not allow wake-up from IRQ.</p>
<ul style="list-style-type: none"> • IRQ Activity Monitoring 	<i>Press Enter</i>	<p>Press enter to set IRQ activity monitoring.</p>
<ul style="list-style-type: none"> • IRQ3~IRQ15 	<i>Enabled</i> <i>Disabled</i>	<p>Enables IRQ3~IRQ15 to wake up. Disables IRQ3~IRQ15 to wake up.</p>

PNP/PCI Configurations

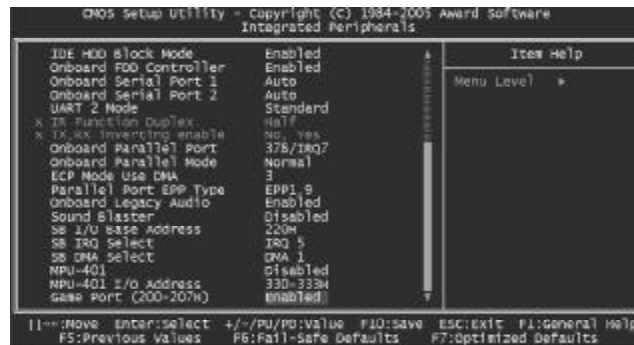


PNP/PCI Configuration Menu

The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
• PNP OS Installed	Yes	Device resources assigned by PnP OS.
	No	Device resources assigned by BIOS.
• Reset Configuration Data	Enabled	The system BIOS will reset configuration data once then automatically set this item as disabled
	Disabled	Disables this function.
• Resources Controlled By	Manual	Assigns the system resources (IRQ and DMA) manually .
	Auto(ESCD)	Assigns system resources (IRQ and DMA) automatically by BIOS.
• PCI/VGA Palette Snoop	Enabled	Enables PCI/VGA Palette Snoop.
	Disabled	Disables PCI/VGA Palette Snoop.
• Assign IRQ For VGA	Enabled	Assigns the needed IRQ for the VGA card.
	Disabled	Does not assign an IRQ for the VGA card, in order to release the IRQ.
• Assign IRQ For USB	Enabled	Assigns an IRQ for USB device.
	Disabled	Does not assign an IRQ for USB.

Integrated Peripherals



Integrated Peripherals Menu

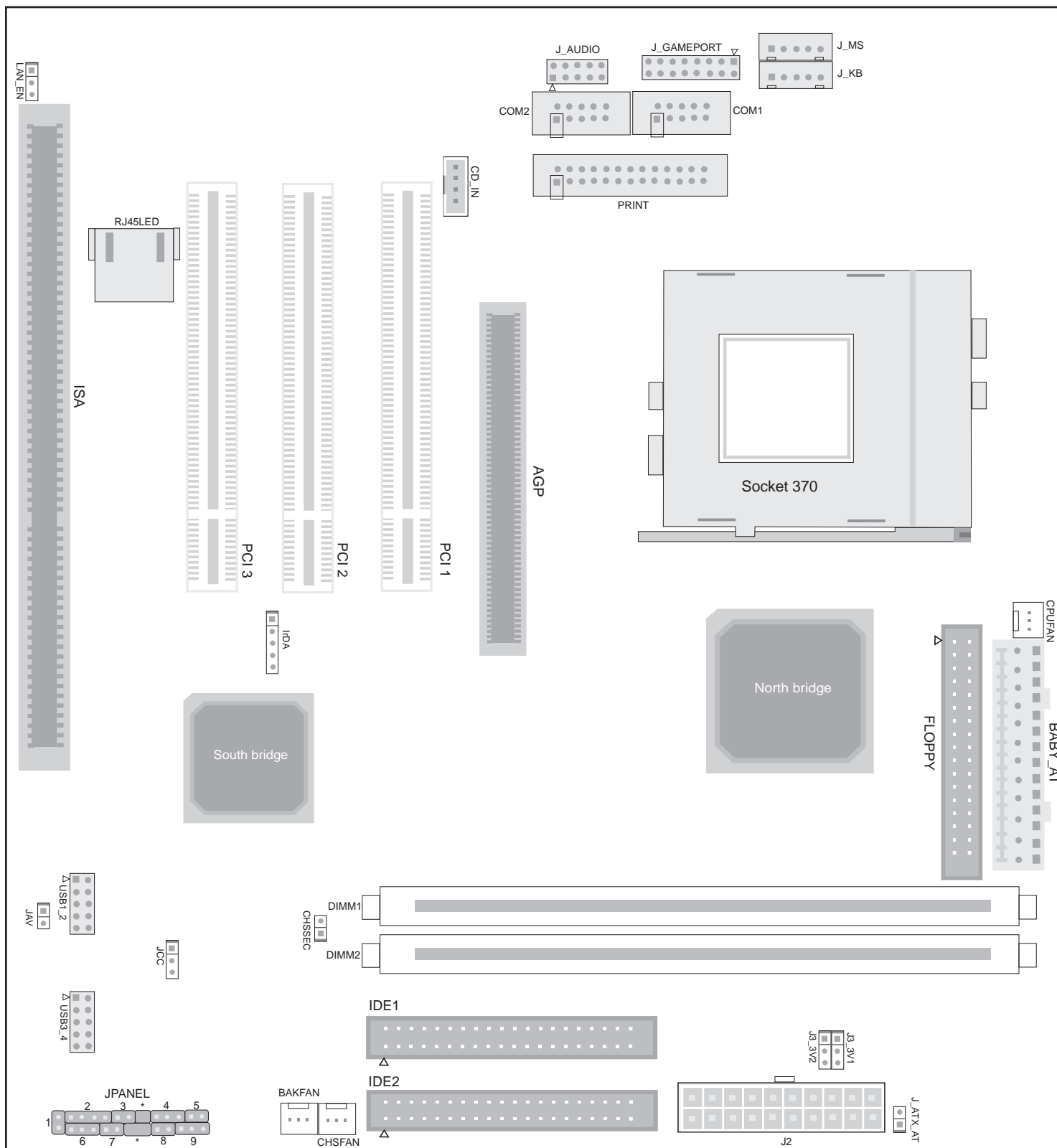
The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
• OnChip IDE Channel0	<i>Enabled</i> <i>Disabled</i>	Enable onchip IDE channel0. Invalidate this feature.
• OnChip IDE Channel1	<i>Enabled</i> <i>Disabled</i>	Enable onchip IDE channel1. Invalidate this feature.
• IDE Prefetch Mode	<i>Enabled</i> <i>Disabled</i>	Enable IDE prefetch mode. Invalidate this feature.
• Primary/Secondary Master/Slave PIO	<i>Mode 0 - 4</i> <i>Auto</i>	Define the IDE primary master/slave PIO mode. The IDE PIO mode is defined by auto-detection.
• Primary/ Secondary Master/Slave UDMA	<i>Auto</i> <i>Disabled</i>	Ultra DMA mode will be enabled if an Ultra DMA device is detected. Disable this function.
• Init Display First	<i>PCI Slot</i> <i>AGP</i>	Initializes the PCI VGA first. If a PCI VGA card and an AGP card are installed together in the system, the one initialized first functions. Initializes the AGP first.
• IDE DMA transfer access	<i>Enabled</i> <i>Disabled</i>	Enable IDE DMA transfer access. Invalidate IDE DMA transfer access.
• IDE HDD Block Mode	<i>Enabled</i> <i>Disabled</i>	Allow IDE HDD to read/write several sectors once. IDE HDD only reads/writes a sector once.
• Onboard FDD Controller	<i>Enabled</i> <i>Disabled</i>	Onboard floppy disk controller is enabled. Onboard floppy disk controller is disabled.

● Onboard Serial Port 1/2	3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Auto Disabled	Define the onboard serial port address and required interrupt number. Onboard serial port address and IRQ are automatically assigned. Onboard serial port is disabled.
● UAR2 Mode	Standard HPSIR ASKIR	Set UAR2 mode.
● Onboard Parallel Port	378/IRQ7 278/IRQ5 3BC/IRQ7 Disabled	Defines onboard parallel port address and IRQ channel. Onboard parallel port is disabled.
● Onboard Parallel Mode	SPP EPP,ECP ECP+EPP Normal	Defines the parallel port mode as Standard Parallel Port (SPP), Enhanced Parallel Port (EPP), or Extended Capabilities Port (ECP).
● ECP Mode Use DMA	3 1	Set ECP Mode Use DMA is 1 or 3.
● Parallel Port EPP Type	EPP1.7 EPP1.9	Set EPP Mode as EPP 1.7 or EPP1.9 Ver.
● Onboard Legacy Audio	Enabled Disabled	Enable onboard legacy audio. Invalidate this feature.
● Sound blaster	Enabled Disabled	Enable sound blaster. Invalidate this feature.
● SB I/O Base Address	220H/240H 260H/280H	Set SB I/O base address.
● SB IRQ Select	IRQ5/IRQ7 IRQ9/IRQ10	Set SB IRQ.
● SB DMA Select	DMA0/DMA1 DMA2/DMA3	Set SB DMA.
● MPU-401	Enabled Disabled	MPU-401 is enabled. MPU-401 is disabled.
● MPU-401 I/O Address	300-303H 310-313H 320-323H 330-333H	Select MPU-401 I/O address.
● Game-Port(200-207H)	Enabled Disabled	Sets Game Port address. Disables Game Port.

Board Layout of A10TMB

Note:
The layout includes all options.It is for
your reference only.



Note: Pin1 for all jumpers are located on the side with black line.
 1. HD_LED 2. SPEAKER 3. RESET * EMPTY 4. GREEN_LED 5. KEYLK
 6. ACPI_LED 7. POWER_SW * EMPTY 8. SLEEP_SW 9. PWR_LED