



Award BIOS Description

- | Setting | Enabled | Disabled |
|----------------------------|----------|---|
| • AGP-2X Mode | Enabled | Supports 133MHz 2X mode. |
| | Disabled | Does not support 133MHz 2X mode. |
| • Onchip USB | Enabled | Enables the onchip USB controller. |
| | Disabled | Disables the onchip USB controller. |
| • USB Keyboard Support | Enabled | USB keyboard support is enabled. |
| | Disabled | USB keyboard support is disabled. |
| • Close Empty DIMM/PCI Clk | Enabled | Closes empty DIMM or PCI clock to reduce EMI. |
| | Disabled | Does not close empty DIMM or PCI clock. |



Power Management Setup



Figure-6 Power Management Setup Menu

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

Item	Option	Description
• ACPI function	<i>Enabled</i> <i>Disabled</i>	Validates ACPI function. Invalidates ACPI function.
• Power Management	<i>User Define</i> <i>Min Saving</i> <i>Max Saving</i>	Users can configure their own Power Management Timer. Pre - defined timer values are used. All timers are in their MAX values. Pre - defined timer values are used. All timers are in their MIN values.
• PM Control by APM	No Yes	System BIOS will ignore APM when Power Management is enabled. System BIOS will wait for APM's prompt before entering any PM mode e.g. Standby or Suspend.
• Video off after	<i>N/A</i> <i>Suspend</i> <i>standby</i> <i>Doze</i>	System BIOS will never turn off the screen. screen off after system enters into Suspend mode. Screen off after system enters into Standby mode. Screen off after system enters into Doze mode.
• 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 cards to monitor. This function is enabled only for the VGA card supporting DPMS.
• Soft-off by PWRBTN	<i>Instant-off</i> <i>Delay 4 Sec</i>	The system will power off immediately once the power button is pressed. The system will not power off until the power button has been pressed continuously for more than 4 seconds.



Award BIOS Description

• CPU Fan In Suspend	<i>On</i>	CPU fan remains on when the system enters suspend mode.
	<i>Off</i>	CPU fan will be automatically turned off when the system enters suspend mode.
• HDD Power Down	<i>Disabled</i> <i>1 ~ 15 Min</i>	Disables HDD Power Down Timer. Defines the continuous HDD idle time before the HDD enters power saving mode (motor off).
• Doze mode	<i>Disabled</i> <i>10Sec ~ 1 Hr</i>	The system never enters Doze mode. Defines the continuous idle time before the system enters Doze mode. If any items defined in "PM Events" are on and activated, the system will be woken up.
• Suspend Mode	<i>Disabled</i> <i>10Sec~ 1Hr</i>	The system never enters Suspend mode. Defines the continuous idle time before the system enters Suspend mode. If any items defined in "PM Events" are on and activated, the system will be woken up.
• Wake up on LAN	<i>Enabled</i>	Allows the system to be powered on when a remote waker-up signal comes up to the WOL header from LAN adapter.
• VGA	<i>Disabled</i>	Does not allow wake-up on LAN.
	<i>On</i>	VGA active reloads global timer.
• LPT&COM HDD&FDD DMA/master	<i>Off</i>	VGA active has no influence to global timer.
	<i>LPT/COM OFF/ON ON/OFF</i>	Set the options of these items to reload global timer.
• Wake Up On LAN	<i>Enabled</i>	Allows the system to be powered on when a remote wake up signal comes up to the WOL header from LAN adapter, or when a ring indicator signal comes up to UART1/UART2 from an external modem or comes up to WOM header from an internal modem card.
• Modem Ring Resume	<i>Disabled</i>	Does not allow wake up on LAN.
	<i>Enabled</i>	Allows the system to be powered up when a ring indicator signal comes up to UART1 or UART2 from an external modem or comes up to WOM header from an internal modem card.
• RTC Alarm Resume	<i>Disabled</i>	Does not allow Ring Power-on.
	<i>Enabled</i>	RTC alarm can be used to generate a wake event to power up the system which is in soft power-down status. You can set any date or any time to power up the system.
• Primary INTR IRQ (3-15)	<i>Disabled</i>	RTC has no alarm function.
	<i>Primary</i> <i>Secondary</i>	Reload global timer. No influence to global timer, except finishing an operation that IRQ "X" requests.
• HDD Down In Suspend	<i>Disabled</i>	No influence to global timer.
	<i>Enabled</i>	HDD's motor will be off when the system enters suspend mode.
	<i>Disabled</i>	HDD's motor remains on.



PNP/PCI Configuration Setup

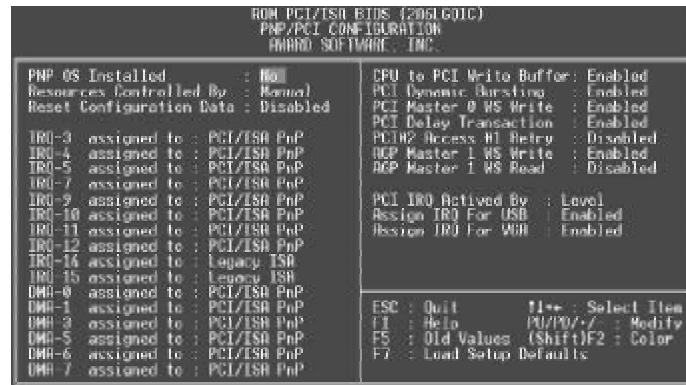


Figure-7 PNP/PCI Configuration Setup Menu

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

Item	Option	Description
• PNP OS Installed	Yes No	Device resources assigned by PnP OS. Device resources assigned by BIOS.
• Resources Controlled By	Manual Auto	Assigns the system resources (IRQ and DMA) manually . Assigns system resources (IRQ and DMA) automatically by BIOS.
• Reset Configuration Data	Enabled Disabled	The system BIOS will reset configuration data once then automatically set this item as disabled. Disables the configuration data function.
• IRQ-3~IRQ-15 assigned to	Legacy ISA PCI/ISA PnP	The specified IRQ-x will be assigned to ISA only. The specified IRQ-x will be assigned to ISA or PCI.
• DMA-0~DMA-7 assigned to	Legacy ISA PCI/ISA PnP	The specified DMA-x will be assigned to ISA only. The specified DMA-x will be assigned to ISA or PCI.
• CPU to PCI Write Buffer	Enabled Disabled	Enables CPU to PCI Write Buffer. Disables CPU to PCI Write Buffer.
• PCI Dynamic Bursting	Enabled Disabled	Enables PCI Dynamic Bursting. Disables PCI Dynamic Bursting.
• PCI Master 0 ws Write	Enabled Disabled	Enables PCI Master ws Write. Disables PCI Master ws Write.
• PCI Delay Transaction	Enabled Disabled	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. |
| • PCI IRQ Activated By | <i>Level</i>
<i>Edge</i> | Select PCI IRQ Active mode. |
| • Assign IRQ for USB | <i>Enabled</i>
<i>Disabled</i> | Assigns an IRQ for USB. If an USB device is used, enables this item.
Does not assign an IRQ for USB. If no USB device is used, disabling this item can release the IRQ. |
| • Assign IRQ for VGA | <i>Enabled</i>
<i>Disabled</i> | Assigns the needed IRQ for the VGA Card.
Does not assign an IRQ for the VGA card, in order to release the IRQ. |
| • Assign IRQ for | <i>IRQ9~IRQ11</i> | Assigns the IRQ for ACPI. |



Integrated Peripherals

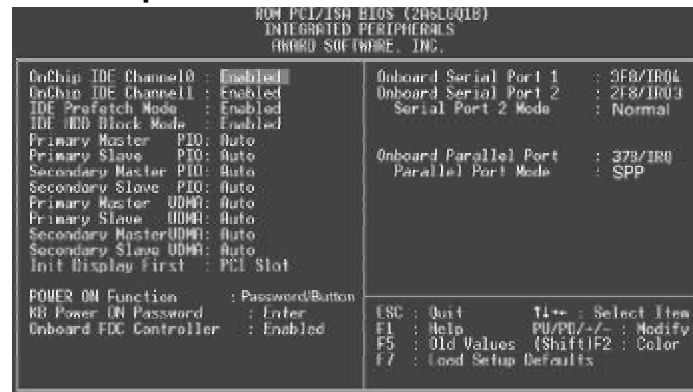


Figure-8 Integrated Peripherals Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• OnChip IDE channel 0/1	<i>Enabled</i> <i>Disabled</i>	Enables OnChip IDE First/Second Channel. Disables OnChip IDE First/Second Channel.
• IDE Prefetch/Mode	<i>Enabled</i> <i>Disabled</i>	Enables IDE Prefetch Mode. Disables IDE Prefetch Mode.
• IDE HDD Block Mode	<i>Enabled</i> <i>Disabled</i>	Allows IDE HDD to read/write several sectors at once. IDE HDD only read/write a sector once.
• IDE Primary/ Secondary Master/Slave PIO	<i>Mode 0 - 4</i> <i>Auto</i>	Defines the IDE primary/secondary master/ slave PIO mode. The IDE PIO mode is defined by auto -detection.
• IDE Primary/ Secondary Master/Slave UDMA	<i>Auto</i> <i>Disabled</i>	Ultra DMA mode will be enabled if an ultra DMA device is detected. Disables 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.
• POWER ON FUNCTION	<i>Password</i> <i>/Button</i> <i>Button Only</i>	Either the power button or the keyboard password can be used to power up the system. Other than choosing this option, the password should be set to implement the keyboard password power-on function. Disables the keyboard password power-on function. The system can be powered on only by the power switch.



	<i>Password</i>	<p>Enables the keyboard password power-on function and disables the power button's power-on function. Other than choosing this option, the password should be set to implement this function.</p> <p>Note: 1. If the option(Password) is chosen, the jumper JKB must be set as pin1&pin2 closed, or you will be unable to power up the system.</p> <p>2. The keyboard password must be set no more than 5 characters and can only use the numbers and alphabetic letters. The password will always remain unless you clear CMOS or reset it.</p>
• Onboard FDC Controller	<i>Enabled</i>	Onboard floppy disk controller is enabled.
• Onboard Serial Port 1/2	<i>Disabled</i> <i>3F8/IRQ4,</i> <i>2F8/IRQ3,</i> <i>3E8/IRQ4,</i> <i>2E8/IRQ3,</i> <i>Auto</i>	Onboard floppy disk controller is disabled. Defines the onboard serial port address and required interrupt number.
• Serial Port 2 Mode	<i>Disabled</i> <i>Standard</i> <i>Sharp IR</i> <i>IrDA SIR</i>	Onboard serial port address and IRQ are automatically assigned Onboard serial port is disabled. Defines Serial Port 2 as standard serial port. Supports SHARP ASK-IR protocol with maximum baud rate up to 57600bps. Supports IrDA version1.0 SIR protocol with maximum baud rate up to 115.2Kbps.
• Onboard Parallel Port	<i>378/IRQ7,</i> <i>278/IRQ5,</i> <i>3BC/IRQ7</i>	Defines onboard parallel port address and IRQ channel.
• Parallel Port Mode	<i>Disabled</i> <i>SPP</i> <i>EPP</i> <i>ECP,</i> <i>ECP+EPP</i>	Onboard parallel port is disabled. Defines the parallel port mode as Standard Parallel Port (SPP), Enhanced Parallel Port (EPP), or Extended Capabilities Port (ECP).



System Monitor

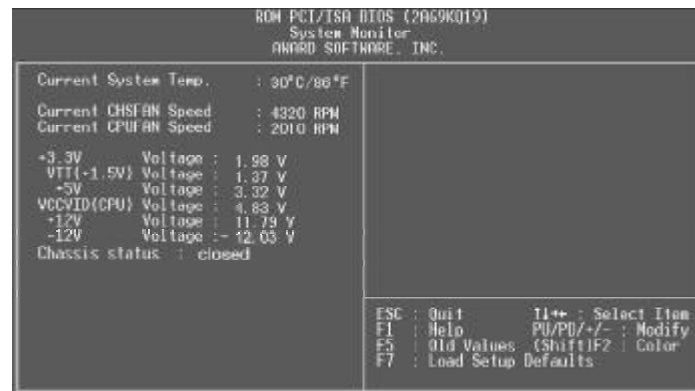


Figure-9 System Monitor Menu

The following describes the meaning of each item.

<u>Item</u>	<u>Current Data Shown</u>	<u>Description</u>
• Current System Temp.	30°C/ 86°F	The temperature inside the chassis connected to the fan header CPUFAN/ CHSFAN/BAKFAN. RPM(Revolution Per Minute) speed of fan. Fan speed value is based on an assumption that tachometer signal is two pulses per revolution; In other cases, you should regard it relatively.
• Current CHSFAN Speed	2010RPM	
Current CPUFAN Speed	4320RPM	
• +3.3V Voltage	3.32V	Displays current Voltage values including all significant voltages of the mainboard. +3.3V, +5V, +12V, -12V, are voltages from the ATX power supply, VTT (+1.5) Voltage is GTL Termination Voltage from the on-board regulator, and VCCVID (CPU) Voltage is the CPU core voltage from the on board switching power supply.
VTT(+1.5V) Voltage,	1.37V	
+ 5V	4.84V	
VCCVID(CPU) Voltage	1.98V	
+12V	11.79V	
-12V	-12.03V	
• Chassis Status Closed	Closed	Indicates status of chassis is closed.
	Opened	Indicates status of chassis is opened.



Supervisor/ User Password setting

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 “Password Setting” 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 “Password Setting” 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 “CMOS Setup” to modify all settings. Also you can use User Password when booting the system or entering “CMOS Setup” but can not modify any setting if Supervisor Password is enabled.



IDE HDD Auto Detection

The Enhanced IDE features are included in all Award BIOS. Below is a brief description of these features.

ROM PCI/ISA BIOS (2A69KQ10) CMOS SETUP UTILITY AWARD SOFTWARE, INC.								
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master:								
Select Primary Master Option (N=Skip): N								
OPTION	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE	
2(Y)	541	525	32	0	1049	67	LBA	
1	541	1050	16	65535	1049	63	NORMAL	
3	541	525	32	65535	1049	63	LARG	
Note: Some OSes (like SCO-UNIX) must use "NORMAL" for installation								
ESC: Skip								

Figure-11 IDE HDD Auto Detection Menu

1. Setup Changes

With auto-detection

- BIOS setup will display all possible modes supported by the HDD including NORMAL, LBA and LARGE.
- If HDD does not support LBA modes, no "LBA" option will be shown.
- If number of physical cylinder is less than or equal to 1024, "LARGE" option may not be shown.
- Users can select their appropriate mode .

With Standard CMOS Setup

	CYLS	HEADS	PRECOMP	LAND	SECTOR	MODE
				ZONE		
Drive C: User(516MB)	1120	16	65535	1119	59	Normal
Drive D: None(203MB)	684	16	65535	685	38	-----

When HDD type is set as "user", the "MODE" option will be available for users to select their own HDD mode.



2. HDD Modes

The Award BIOS supports 3 HDD modes: NORMAL, LBA and LARGE.

NORMAL

Generic access mode in which neither the BIOS nor the IDE controller will make any transformation during accessing. The maximum number of cylinders, heads and sectors for NORMAL mode are 1024,16 and 63.

If the user sets his HDD to NORMAL mode, the maximum accessible HDD size will be 528 megabytes even though its physical size may be greater than that.

LBA (Logical Block Addressing) mode

A new HDD accessing method to overcome the 528 Megabyte bottleneck. The number of cylinders, heads and sectors shown in setup may not be the number physically contained in the HDD.

During HDD accessing, the IDE controller will transform the logical address described by sector, head and cylinder number into its own physical address inside the HDD. The maximum HDD size supported by LBA mode is 8.4 Gigabytes.

LARGE mode

Some IDE HDDs contain more than 1024 cylinder without LBA support (in some cases, users do not want LBA). The Award BIOS provides another alternative to support these kinds of HDD.

BIOS tricks DOS (or other OS) into recognizing the number of cylinders is less than 1024 by dividing it by 2. At the same time, the number of heads is multiplied by 2. A reverse transformation process will be made inside INT13h in order to access the right HDD address.

If using Auto detect, the BIOS will automatically detect the IDE hard disk mode and set it as one of the three modes.

3. Remark

To support LBA or LARGE mode of HDDs, there must be some softwares involved which are located in Award HDD Service Routine(INT13h).It may fail to access a HDD with LBA (LARGE) mode selected if you are running under an Operating System which replaces the whole INT 13h.

Boot with BIOS defaults

If you have made all the changes to CMOS values and the system can not boot with the CMOS values selected in setup, clear CMOS after power-down, then power on again. System will boot with BIOS default settings.



Appendix A

QDI Mainboard Utility CD-ROM

A QDI Mainboard Utility CD-ROM is supplied with each mainboard. The contents used for this mainboard are:

1. Chipset Dispatches:
Via Chipset Drivers included in the directory \ChipDrv\Via \A133 .
Run \ChipDrv\Via\A133\Setup.exe to install the following drivers automatically.
A. Bus Master PCI IDE Driver
B. IRQ Routing Program
C. Via Chipset Function' s Registry
D. AGP VxD Driver
2. PC-cillin 98
New viruses are appearing frequently; the chance of your PC being infected increases; antivirus softwares are becoming a must. PC-cillin 98 offers you full-time active virus protection as well as manual scans, plus virus clean capability. Keeping up to date on the latest threats and updating significant files are crucial in keeping antivirus software effective. PC-cillin 98 provides Free Virus Pattern File Updates from the Trend Micro Website:
<http://www.trend.com/download/pattern.htm> or
<http://www.antivirus.com/download/pattern.htm>.

Installation of PC-cillin 98

For Windows 95/98 English version, run Setup.exe for installation from the utility CD directory \Pccillin\Win9x.

For Windows 95/98 Chinese version, run Setup.exe for installation from the utility CD directory \Pccillin\PWin9x.

For Windows NT 4.0, run Setup.exe for installation from the utility CD directory \Pccillin\WinNT4.0.

S/N is PN EF-9991-6558-5857-5535.

3. QDI ManageEasy V2.0
It is well known that guaranteeing the computer' s security and reliability is essential. Especially today, effectively managing and monitoring the computer' s hardware is even more important; because processing and exchanging critical data through computer and network are happening everyday.



Moving with the computer's development, the system of the computer will become more and more complex; at the same time, the control computer's hardware will be strengthened. Today, it is possible to monitor and manage your complex hardware from Windows 9X and Windows NT. QDI ManageEasy is a system tool, a bridge between the complex hardware and OS, used to access hardware status and to execute control functions. It supports stronger functions for Windows 9X and Windows NT. These functions enable you to view more than one hundred of the basic information about the system and monitor some key reference data concerning computer health in real time. QDI ManageEasy also helps you to use remote access and control computers in your local area network. With QDI ManageEasy, you can improve your management level.

Installation of QDI ManageEasy V2.0

Run Setup.exe from the utility CD directory \QME2 to install the QDI ManageEasy V2.0. The QDI ManageEasy Setup Wizard will guide you through the installation process.

For detailed information on how to use QDI ManageEasy V2.0, please refer to the QDI ManageEasy V2.0 online help.

4. QDI Mainboard Utility:

The utilities located in the directory \Utility are:

FLASH.EXE
CBLOGO.EXE
LF.EXE

Refer to the online help for information on how to use these utilities.

5. Documents for QDI Mainboard:

The files included in the directory \Doc are:

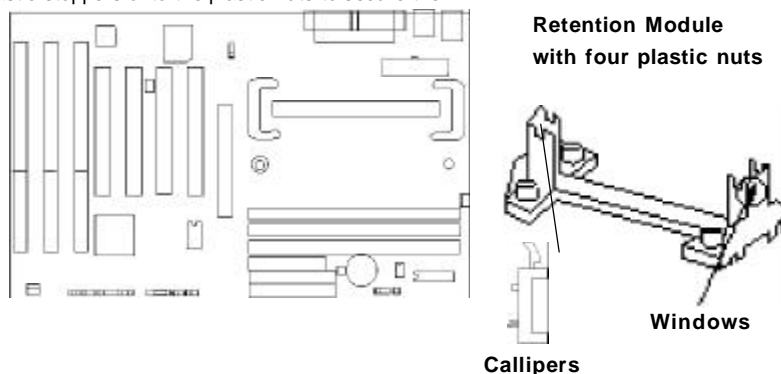
Adobe Acrobat Reader V3.0 —ar32e301.exe
ManageEasy Manuals —QMEV12.PDF.



Appendix B.

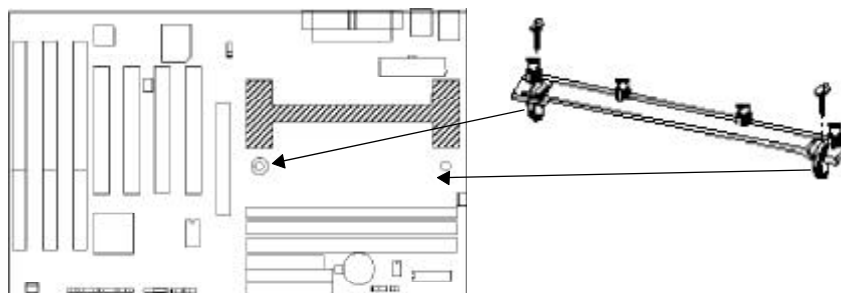
Retention Mechanism & Pentium® II/Pentium® III/ Celeron™ Processor Installation Procedures

1. Place the retention module with four plastic nuts on the mainboard and place the four plastic stoppers onto the plastic nuts to secure them.



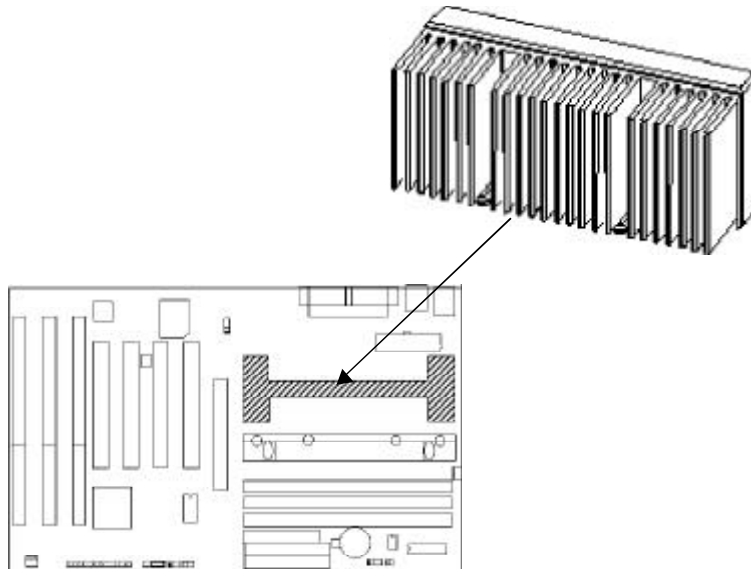
- Note:
1. If choosing to use Celeron™ Processor, snap-on Callipers onto the retention module.
 2. If choosing to use Intel Celeron™ PPGA 370 processor, other than placing the callipers, the socket 370 card with CPU and CPU fan should be installed.
 3. Please note the retention module has one orientation. If one way doesn't fit, change the direction to the other way. Do not forcefully press the retention module onto the mainboard.

2. Install HSSBASE (Heatsink Support Base) on mainboard, then insert the two plastic pins through the HSSBASE securing it to the mainboard.

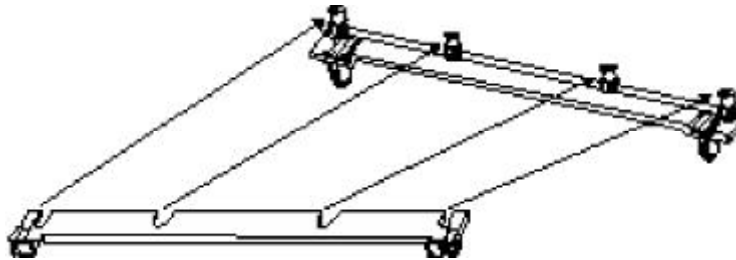




3. Insert Pentium® II/ Pentium® III/ Celeron™ Processor in Slot1.

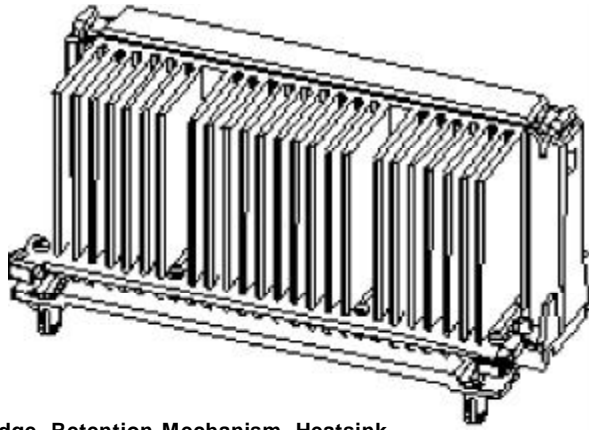


4. Clip Plastic Bar onto the HSSBASE through the fins on the processors' heatsink.





5. The Retention Mechanism installation procedure is completed as shown below.



**S.E.C Cartridge, Retention Mechanism, Heatsink support, and ATX Form Factor Heatsink Isometric View
Not To Scale**

Remark:

Please skip step2 and step4 for Boxed Pentium® II Processor and refer to relevant details concerning this type of processor for your installation.



Appendix C.

Boot Logo

When you power on or reset your system, the picture shown below will be displayed on the screen.



If you press <Esc>, it switches to the booting message screen. Otherwise, it enters operating system directly. You can use “**cblogo.exe**” (included on the QDI Mainboard Utility CD) to replace it by any other logo which you prefer. Regarding the method of using **cblogo.exe** utility, please refer to it's online help. If you don't prefer the logo displayed on the screen during boot up, set the “Show Bootup Logo” option as Disabled in the “BIOS FEATURES SETUP” section of the BIOS

*** We reserve the right of modifying the default full-logo of QDI without further notification.**

Item Checklist

Completely check your package. If you discover damaged or missing items, contact your retailer.

- ☒ Advance 5/133 mainboard
- ☒ QDI Mainboard Utility CD-ROM
- ☒ Retention Module
- ☒ I/O shield
- ☒ 1 IDE ribbon cable
- ☒ 1 floppy ribbon cable
- ☒ User' s manual

Notice

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If you need any further information, please visit our web-site: "www.qdigrp.com".

Board Layout of Advance 5/133 V1.0