Introduction Du Type Facilité de vitesse

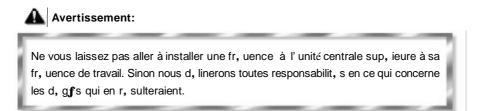
Menu d'initialisation de "SpeedEasy" dans l'unité centrale.

Sèlectionnez la rubrique <SpeedEasy CPU SETUP> dans le menu principal et entrez le sous-menu:

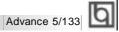


Figure-1 Menu d' nitialisation de "SpeedEasy" dans l'unité centrale

BIOS fournira un jeu de valeurs de base pour votre s, lection de CPU au lieu de positions cavaliers. Vous pouvez s, lectionner manuellement la vitesse de CPU dans l'affichage du menu "SpeedEasy CPU SETUP ".



12



SETUP DELLA SCHEDA SPEEDEASY

Procedura di installazione:

4. Inserite il microprocessore Pentium[®]II/ Pentium[®]III/ Intel[®] Celeron[™] come da istruzioni.

2. Modificate la configurazione del computer e ripristinate il sistema.

3. Premete il tasto e accendete il computer per entrare nel setup BIOS.

4. Entrate nel menu "SpeedEasy CPU* SETUP" per regolare la velocit..del microprocessore. ¹

Nota: se non regolate la velocità del microprocessore, il sistema funzionerà con le regolazioni standard (Microprocessore da 200MHz con velocità di "host bus" da 100MHz e microprocessore da 133MHz con velocità di "host bus" da 66MHz).

5. Salvate e uscite dal Setup BIOS, e fate ripartire il computer.

*CPU= microprocessore

Manual for Advance 5/133

Spiegazioni tecniche sul microprocesore SpeedEasy

Menu del Setup del Microprocessore SpeedEasy

Selezionare <SpeedEasy CPU SETUP> dal menu principale ed entrare nel seguente sottomenu:



Figure -1 Menu del Setup del Microprocessore SpeedEasy

I1 sistema BIOS Vi forniràuna serie di valori base per la selezione del microprocessore al posto della regolazione jumper (dell'accoppiamento). Potete selezionare manualmente la velocità del microprocessore sulla schermata "SpeedEasy CPU SETUP".



14

	1
Chapter 1	Ľ

Chapter 1 Introduction

Overview

The Advance 5/133 green mainboard utilizes the Apollo Pro-Plus chipset and provides a highly integrated solution for fully compatible, high performance and cost-effective PC/ATX platform. It provides 66/100/133/150MHz system bus support for all Intel Pentium[®]II, Pentium[®] III and Celeron[™] processors. Both 66MHz/100MHz SDRAM with SPD and 66MHz EDO DIMMs are supported. It also provides advanced features such as wake-up on LAN, wake-up on internal/external modem and keyboard password power-on function. ManageEasy, our system management application is supplied to enable remote monitoring and configuration of the system. The green function is in compliance with the ACPI specification. In addition, the system BIOS is protected from being attacked by severe virus such as CIH virus.

Key Features

Form factor

• ATX form factor of 305mm x 193mm.

Microprocessor

- Supports all Intel[®] Pentium III processors at 450/500/550MHz with 100MHz host bus speed.
- Supports all Intel Pentium[®]II processors at 233/266/300/333MHz with 66MHz host bus speed and 350/400/450MHz with 100MHz host bus speed.
- Supports Intel[®]Celeron[™] processors at 266/300/333/366/400/433MHz with 66MHz bus speed.
- Supports 66/100/133MHz host bus speed, can overclock to 150MHz
- CPU core frequency = Bus speed x1.5, x2, x2.5, x3, x3.5, x4, x4.5, x5, x5.5, x6, x6.5, x7, x7.5, x8.
- CPU core supply voltage adjustable from 1.3V to 3.5V through on- board switching voltage regulator with VID(Voltage ID).

Chipset

 Apollo Pro-Plus chipset: VT82C693 system controller VT82C596B PCI to ISA bridge

System memory

- Provides three 168 pin 3.3V unbuffered 66/100/133MHz DIMM sockets.
- Supports both 66MHz/100MHz SDRAMs with SPD and 66MHz EDO DIMMs.

Manual for Advance 5/133

Introduction

- Minimum memory size is 8MB, maximum memory size is 768MB.
- SDRAM 64 bit data interface with ECC support.

On-board IDE

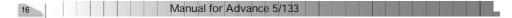
- Supports two PCI PIO and Bus Master IDE ports.
- Two fast IDE interfaces supporting four IDE devices including IDE hard disks and CD - ROM drives.
- Supports up to mode 4 timing.
- Supports "Ultra DMA/66" Synchronous DMA mode transferring up to 66 Mbytes/sec.
- Integrated 16x32bit buffer for IDE PCI Burst Transfers.

On-board I/O

- Use Winbond W83977EF super I/O chip.
- One floppy port supporting up to two 3.5' ' or 5.25" floppy drives with 360K/720K/1.2M/1.44M/2.88M format.
- Two high speed 16550 fast compatible UARTs(COM1/COM2/COM3/COM4 selective) with 16-byte send/receive FIFOs.
- One enabled parallel port at the I/O address 378H/278H/3BCH with additional bi-direction I/O capability and multi-mode as SPP/EPP/ECP (IEEE 1284 compliant).
- Circuit protection provided, preventing damage to the parallel port when a connected printer is powered up or operates at a higher voltage.
- Supports LS-120 floppy disk drive.
- All I/O ports can be enabled/disabled in the BIOS setup.

Advanced features

- PCI 2.2 Specification compliant.
- Provides Trend ChipAwayVirus®On Guard.
- Provides on-board PS/2 mouse and PS/2 keyboard ports.
- Two USB ports supported.
- Provides infrared interface.
- Supports Windows 95/98 software power-down.
- Supports wake-up on LAN and wake-up on internal/external modem.
- Supports auto fan off when the system enters suspend mode.
- Provides on-board 3.3V regulator to support ATX power supply without 3.3V output.
- On-board LM80 supports system monitoring (monitors system temperature,voltages, chassis intrusion and fan speed). (manufacturing option)
- On-board MAXIM1617 monitors the CPU temperature. (manufacturing option)
- Provides management application such as ManageEasy and LDCM(LANDesk[®] Client Manager). (manufacturing option)





- Supports keyboard password power-on function.
- Protects the system BIOS from being attacked by severe virus such as CIH, by enabling "Flash Write Protect" in CMOS setup.

BIOS

- Licensed advanced AWARD BIOS, supports flash ROM with 2M bit memory size, plug and play ready.
- Supports IDE CD-ROM or SCSI boot up.

Green function

- Supports ACPI (Advanced Configuration and Power Interface) and ODPM (OS Directed Power Management).
- Supports three green modes: Doze, Standby and Suspend.

Expansion slots

- 3 ISA slots and 4 PCI slots.
- 1 AGP Slot.

Manual for Advance 5/133

Introduction to New Features

BIOS Write Protection

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The BIOS of the mainboard is contained inside the Flash ROM. Severe viruses such as CIH virus are so dangerous that it may overwrite the BIOS of the mainboard. If the BIOS has been damaged, the system will be unable to boot. We provide the following solution which protects the system BIOS from being attacked by such viruses.

There are two choices which implements this function.

- 1. Set the jumper (JAV) as open, the BIOS can not be overwritten.
- Set the jumper (JAV) as close, meanwhile set "Flash Write Protect" as Enabled in AWARD BIOS CMOS Setup. In this way, the BIOS can not be overwritten, but the DMI information can be updated.

Refer to page 25 for detailed information on jumper setting, and page 34 for related BIOS setting.

Ultra ATA/66

According to the previous ATA/IDE hard drive data transfer protocol, the signaling way to send data was in synchronous strobe mode by using the rising edge of the strobe signal. The Ultra ATA/33 protocol doubles the burst transfer rate from 16.6MB/s to 33.3MB/s, by using both the rising and falling edges of the strobe signal, this time Ultra ATA/66 doubles the Ultra ATA burst transfer rate once again (from 33.3MB/s to 66.6MB/ s) by reducing setup times and increasing the strobe rate. The faster strobe rate increases EMI, which cannot be eliminated by the standard 40-pin cable used by ATA and Ultra ATA. To eliminate this increase in EMI, a new 40-pin, 80-conductor cable is needed. This cable adds 40 additional ground lines between each of the original 40 ground and signal lines. The additional 40 lines help shield the signal from EMI, reduce crosstalk and improves signal integrity.

Ultra ATA/33 introduced CRC (Cyclical Redundancy Check), a new feature of IDE that provides data integrity and reliability. Ultra ATA/66 uses the same process. The CRC value is calculated by both the host and the hard drive. After the host-request data is sent, the host sends its CRC to the hard drive, and the hard drive compares it to its own CRC value. If the hard drive reports errors to the host, then the host retries the command containing the CRC error.

Ultra ATA/66 technology increases both performance and date integrity. However there are basically five requirements for your system to run in Ultra ATA/66 mode:

- 1. The system board must have a special Ultra ATA/66 detect circuit, such as Superb 1 mainboard.
- 2. The system BIOS must also support Ultra ATA/66.
- The operating system must be capable of DMA transfers. Win95 (OSR2) and Win98 are capable.
- 4. An Ultra ATA/66 capable, 40-pin, 80-conductor cable is required.
- 5. Ultra ATA/66 compatible IDE device such as a hard drive or CD-ROM drive.



Chapter 2

Installation Instructions

This section covers External Connectors, Jumper Settings and Memory Configuration. 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 directions.

Be sure to unplug the AC power supply before adding or removing expansion cards or other system peripherals, otherwise your mainboard and expansion

cards might be seriously damaged.

External Connectors

PS/2 Keyboard Connector, PS/2 Mouse Connector

PS/2 keyboard connector is for the usage of PS/2 keyboard. If using a standard AT size keyboard, an adapter should be used to fit this connector. PS/2 mouse connector is for the usage of PS/2 mouse.



USB1, USB2

Two USB ports are available for connecting USB devices.



Parallel Port Connector and Serial Port Connector (UART1, UART2)

The parallel port connector can be connected to a parallel device such as a printer, while the serial port connectors can be connected to serial port devices such as a serial port mouse. You can enable/disable them and choose the IRQ or I/O address in "Integrated

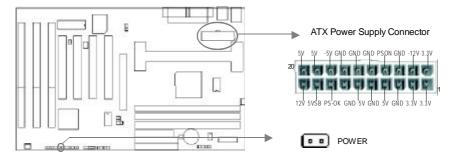
Peripherals" from AWARD BIOS SETUP.



Installation Instruction

ATX Power Supply Connector & Power Switch (POWER)

Be sure to connect the power supply plug to this connector in its proper orientation. The power switch (POWER) should be connected to a momentary switch (power button). When powering up your system, first turn on the mechanical switch of the power supply (if one is provided), then push once the power button. When powering off the system, you needn't turn off the mechanical switch, just <u>**Push once**</u> the power button.



Note: * If you change "soft-off by PWR-BTTN" from default "Instant-off" to "Delay 4 Secs" in the "POWER MANAGEMENT SETUP" section of the BIOS, the power button should be pressed for more than 4 seconds before the system powers down.

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)

The power LED has two status. When the system is in power-off status, the LED is off glows dimly. When the system is powered up, the LED is on. The connector has an orientation.

Key-Lock Connector (KEY_L)

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

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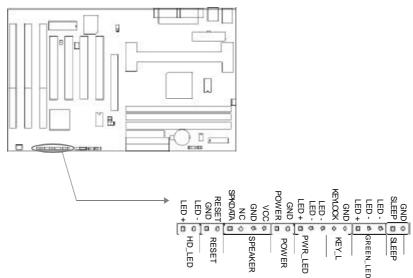


ACPI LED Connector (GREEN_LED)

The ACPI LED has three status. When the system is in power-off status, the LED is off. When the system is powered up, the LED is on. When the system enters suspend mode, the LED will flash.

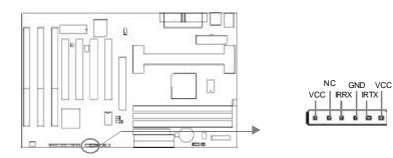
Hardware Green Connector (SLEEP)

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



Infrared Header (IrDA)

This connector supports wireless transmitting and receiving. If using this function, set "Serial Port 2 Mode" to IrDA or ASKIR and configure the settings from the "INTEGRATED PERIPHERALS" section of the BIOS.

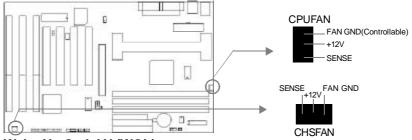


Manual for Advance 5/133



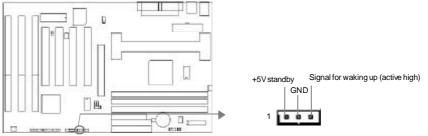
Fan Connector (CPUFAN, CHSFAN)

These two fans are controllable. They will be automatically turned off after the system enters suspend mode. You also can choose not to turn the CPUFAN off by setting "CPU FAN In Suspend" as On in the "POWER MANAGEMENT SETUP" section of the BIOS.



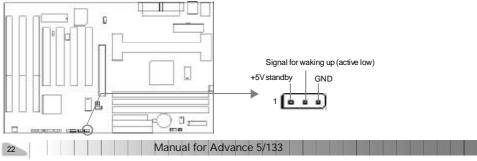
Wake-Up On LAN (WOL)

Through the Wake-Up On LAN function, a wake event occurring from the network can wake up the system. If this function is to be used, please be sure an ATX 2.01 power supply of which 5VSB line is capable of delivering 720mA, and a LAN adapter which supports this function are used. Then connect this header to the relevant connector on the LAN adapter, set "Wake Up On LAN" as Enabled in the "POWER MANAGEMENT SETUP" section of the BIOS. Save & exit, then boot the operating system once to make sure this function takes effect.



Wake-Up On Internal Modem (WOM)

Through the Wake-Up On Internal Modem function, the system which is in the power-off status can be powered on by a ring signal received from the internal modem. If this function is to be used, be sure an internal modem card which supports the function is used. Then connect this header to the relevant connector on the modem card, set "Modem Ring Resume" as Enabled in the "POWER MANAGEMENT SETUP" section of the BIOS. Save & exit, then boot the operating system once to make sure this function takes effect.

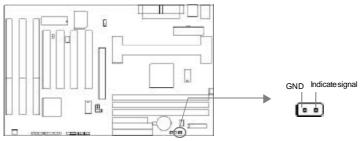




Chassis Security Switch (CHSSEC)

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 to the customer that the chassis has been opened. You can either get this information from "System Monitor" of

the BIOS (optional) or QDI ManageEasy software.



Sound Connector (PC-PCI)

This connector provides a bridge between the mainboard and PCI sound card to deliver

sound compatibility under DOS real-mode environment



Expansion Slots & I/O Ports description

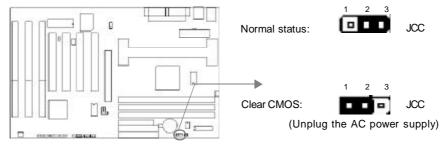
Manual for Advance 5/133

Ini	
Ы	Installation Instruction

Jumper Settings

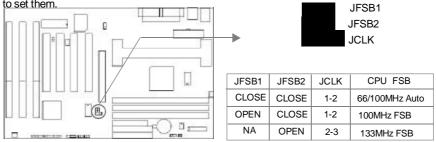
Clear CMOS (JCC)

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.

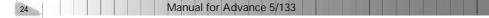


Overclocking Jumper Setting (JFSB1, JFSB2, JCLK)

Jumpers labeled JFSB1, JFSB2 and JCLK are located on the mainboard providing users with CPU overclocking feature. The host bus speed can be set as 66/100/133MHz or AUTO select. Refer to the chart below for the location of these jumpers, and the table for information on how to set them.



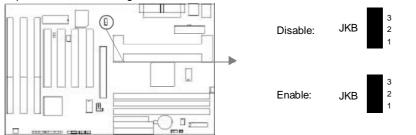
If CPU FSB is set as default setting 66/100MHz AUTO, the system detects the CPU front side bus (66/100MHz) automatically. If CPU FSB is set as 100MHz, the system can run at 100MHz front side bus even if a processor with 66MHz FSB is installed. Setting up to 133MHz FSB is also supported. However, whether or not your system can be overclocked depends on your processor's capability. Whether the processor is bus ratio locked or unlocked should also be taken into account. For bus ratio unlocked processor, this overclocking feature can be implemented by setting CPU FSB as 100/133MHz, meanwhile adjusting the bus ratio (Multiplier) lower in "SpeedEasy CPU Setup" in AWARD BIOS CMOS Setup. We do not guarantee the overclocking system to be stable.





Enable keyboard password power-on function (JKB)

The mainboard provides the advanced keyboard password power-on function. When wanting to use this function, set JKB with pin1& pin2 closed. Otherwise, set JKB with pin2 & pin3 closed for disabling this function.



In order to implement this function, it is necessory to set the keyboard power-on password in the "INTEGRATED PERIPHERALS" section of the BIOS. For detailed information, see the explantions of "INTERGATED PERIPHERALS" of BIOS Part.

Note: 1.If wanting to use this function, 5VSB line of the power supply should be capable of delivering enough current (eg. 200mA) for all devices connected to the keyboard port, or you can't power up the system using

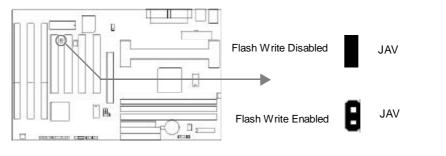
the keyboard. 2.If you set JKB with pin2 & pin3 closed, set "POWER ON Function" to

Button only or Password/Button, don't set it to Password, or this will prevent you from powering up your system.

3. If you encounter the above problems, clear CMOS and reset the jumper and BIOS option.

BIOS Write Protection Jumper (JAV)

The BIOS of the mainboard is contained inside the Flash ROM. If the jumper JAV is set as open, you will be unable to flash the BIOS to the mainboard. However in this status, the system BIOS is protected from being attacked by serious virus such as CIH virus.



Manual for Advance 5/133

Setting the jumper JAV as closed (default), meanwhile disabling the "Flash Write Protect" item from "BIOS Features Setup" in AWARD BIOS CMOS Setup, allows you to flash the BIOS to the Flash ROM.

The DMI (Desktop Management Interface) system information such as the CPU type/speed, memory size, and expansion cards will be detected by the onboard BIOS and stored in the flash ROM. Whenever the system hardware configuration is changed, DMI information will be updated automatically. However, setting jumper JAV as open makes flashing BIOS and updating DMI information impossible. Therefore, set JAV as closed when changing the system hardware configuration, or the error message "Unkown Flash Type" will be displayed on the screen, and DMI information update will be fail.

Refer to page 18 for the two choices to implement BIOS Write Protection.

Memory Configuration

b

This mainboard provides three 168 pin 3.3V un-buffered DIMM sockets to support a flexible memory size ranging from 8MB/384MB for SDRAM or from 8MB/768MB for EDO memory. Both 66MHz/100MHz SDRAM with SPD and 66MHz EDO DIMMs are supported. The following set of rules allows optimum configurations.

- Using the serial presence detect (SPD) data structure, programmed into an E²PROM on the DIMM, the BIOS can determine the SDRAM's size and speed.
- The DRAM Timing register, which provides the DRAM speed grade control for the entire memory array, must be programmed to use the timing of the slowest DRAMs installed.
- Possible SDRAM DIMM memory sizes are 8MB, 16MB, 32MB, 64MB, 128MB in each DIMM socket.
- Possible EDO DIMM memory sizes are 8MB, 16MB, 32MB, 64MB, 128MB, 256MB in each DIMMsocket.



Chapter 3 BIOS Description

Utility Support:

FLASH.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 encountering problems.
- Before upgrading your BIOS, review the description below to avoid making mistakes, resulting in a destroyed BIOS and a non-working system.

When you are encountering problems, for example, you find your system doesn't support the new CPU which is released after our current mainboard, you may therefore upgrade the BIOS.

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 FLASH.EXE from the directory \Utility on the QDI Mainboard Utility CD onto 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. Uncompress the file download, copy the BIOS file (xx.bin) onto the bootable diskette, and write down the checksum of this BIOS which is included in readme file.
- 5. Reboot the system from the bootable diskette which you have created.
- 6. Then run the FLASH utility at the A:\ prompt. During the process, the system will prompt : 'Do you want to save the BIOS(Y/N)'. If you type 'Y', the system will prompt for the BIOS name. The system will also display the checksum which should be exactly the same as the checksum you copied from the readme file. Don't turn off power or reset the system until the BIOS upgrade has been completed.

Concerning how to run the FLASH utility, please refer to the following descriptions:

Usage: FLASH [BIOSfile] [/c[<command...>]][/n]

FLASH [BIOSfile] [/g]

/c: Flashing memory will clear previous settings. Default allows settings to remain.

<command> function definition:

c: clear CMOS;

p: clear PnP;

d: clear DMI.

Manual for Advance 5/133

Award BIO\$ Description

/n: programs BIOS without prompting. If this option is chosen:

Be sure your new BIOS is compatible with your mainboard. If not, the system will be damaged.

/g: Retrieves BIOS file from BIOS ROM.

Examples:

A:\FLASH.EXE BIOSfile.bin A:\FLASH.EXE BIOSfile.bin /cdpc/n A:\FLASH.EXE BIOSfile.bin /g

Note: FLASH utility runs incorrectly at Windows DOS prompt.

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Chapter 3	Ч

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 or simultaneously press the <Ctrl> + <Alt> + <Esc> keys, to enter the AWARD BIOS CMOS Setup Utility.

Press to enter SETUP

Once you have entered, the Main Menu (Figure 1) appears on the screen. The main menu allows you to select from twelve setup functions and two exit choices. Use the arrow keys to select among the items and press the <Enter> key to accept or enter the sub-menu.

STANDARD CHOS SETUP	INTEGRATED PERIPHERALS
SpeedEasy CPU SETUP	System Monitor
BIOS FERIDRES SETUP	SUPERVISOR PASSNORD
CHIPSET FEATURES SETUP	USER PASSHORD
POWER MANAGEMENT SETUP	IDE HOD AUTO DETECTION
PNP/PCI CONFIGURATION	SRVE & EXIT SETUP
LOAD SETUP DEFRUETS	EXIT WITHOUT SAVING
Esc : Quit F18 : Save & Exit Setup	†↓++ : Select Item (Shift)F2 : Change Color

Figure-1 Main Menu

Note:The "System Monitor" item will not be displayed if there is no system monitor hardware on the mainboard.

Load Setup Defaults

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

Standard CMOS Setup

The basic CMOS settings included in "Standard CMOS Setup" are Date, Time, Hard Disk Drive Types, Floppy Disk Drive Types, and VGA etc. Use the arrow keys to highlight the item, then use the <PgUp> or <PgDn> keys to select the value you want in each item.



RO	N PCIZIS STANDARI AMARD SC	SA BIOS D CHOS DFTWAR	S (20 Setu In	69K01D) C.				
Date (ma:dd:yy) - Sat. am Time (Nh:mm:ss) : 5 : 30 HARD DISKS - TVPE	3 199 : 55 SIZE		HEAD	PRECOM	P LANDZ	SECTOR	NODE	
Primary Master : Auto Primary Stave : Auto Secondary Naster : Auto Secondary Stave : Auto	0 0 0	8 8 8 8					Auto Auto Auto Auto Auto	
Drive A : 1.44M,3.5 in, Drive B : None Video : ECR/VCA Halt On : All Errors		ſ	E	otended Other	Memory Nemory Hemory Hemory	97280 384	K	

Figure-2 Standard CMOS 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 User."None" means no HDD is installed or set; "Auto" means the system can auto-detect the hard disk when booting up; by choosing "User", 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

Video

Set this field to the type of video display card installed in your system.

EGA/ VGA	Enhanced Graphics Adapter / Video Graphic Array. For EGA,		
	VGA, SEGA, SVGA, or PGA monitor adapters.		
CGA 40	Color Graphic Adapter, powering up in 40 column mode.		
CGA 80	Color Graphic Adapter, powering up in 80 column mode.		
MONO	Monochrome adapter, including high resolution monochrome adapters.		

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Chapter 3	Ч

Halt On

This category determines whether or not the computer will stop if an error is detected during powering up.

No errors	The system boot will not stop for any errors that may be detected.
All errors	Whenever the BIOS detects a non-fatal error, the system will stop and you will be prompted.
All, But Keyboard	The system boot will not stop for a keyboard error; but it will stop for all other errors.
All, But Disk/Key	The system boot will not stop for a keyboard or disk error, but it will stop for all other errors.

Memory

This is a Display-Only Category, determined by POST (Power On Self Test) of the BIOS.

Base Memory	The POST of the BIOS will determine the amount of base
2000	(or conventional) memory installed in the system.
Extended Memory	The BIOS determines how much extended memory is
Extended Merriory	,
	presented during the POST.
Other Memory	This is the memory that can be used for different
	applications. Shadow RAM is most used in this area.
Total Memory	Total memory of the system equals the sum of the above
	memory.



SpeedEasy CPU Setup

ROM PCI/ISA BIOS (2R6L601C) DPU FEATURES SETUP ANAMU SUR (NAME, INC.				
CPU Model : Pentiux(R)II CPU Speed : 2009hzt65x3)	Warning: Be sure your selection is right. CPU over speed will be dongerous!			
Clock Spread Spectrum : Disabled	WILL DE UDIVERUUS:			
	ESC: Quit 11++ Select Item F1 : Help PU/PD/+/- Modify F5 : Old Values (Shift)F2 : Color F7 : Lood Setup Defoults			

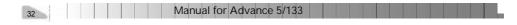
Figure-3 SpeedEasy CPU Setup

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

<u>ltem</u>	<u>Option</u>	Description
CPU Model		BIOS automatically detects the CPU model, therefore this item is shown only. It could be Pentium(R)II, Intel (R) Celeron(TM) or Pentium III(R) depending on the processor chosen.
CPU Speed	SpeedEasy	CPU frequency should be set according to the CPU type. For Celeron [™] or Pentium®II (66MHz front-side bus) pro- cessors, you can choose from 200MHz (66X3)~533MHz (66x8), For Pentium®II or Pentium®III processors with 100 or 133/150MHz front-side bus, you can select from 300MHz(100X3)~800MHz(100x8), 400MHz(133x3) ~ 800MHz(133x6).
	Jumper	This item is only for users who understand
	Emulation	all the CPU parameters, i.e. System Bus Frequency ' 133 /150/ 66 MHz' and multiplication of Processor Core Frequency to System Bus frequency "x2, x2.5, x3, x3.5, x4, x4.5, x5, x5.5, x6, x6.5, x7, x7.5, x8".
 Clock Spread Spectrum 	Enabled	Enables Clock Spread Spectrum to reduce EMI. you can choose 133/140/150MHz host bus speed.
	Disabled	Disables Clock Spread Specturm. you can choose 133/140/150MHz host bus speed.

Note:

Dot not set CPU frequency higher than its working frequency. If you do, we will not be responsible for any damages caused.



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Chapter 3	Ч

BIOS Features Setup

BIOS FEAT	BTOS (2061.601C) RES SETUP WARE, INC.
ChipAnayWirus On Guard Enabled CPU L2 Cache Inabled CPU L2 Cache Enabled CPU L2 Cache Enabled CPU L2 Cache Enabled CPU L2 Cache Enabled CPU L2 Cache Disabled CPU L2 Cache Disabled Boot From LDN First Disabled Boot From LDN First Disabled Boot Sequence C.B.SCSI Swap Floppy Orive Disabled Boot W0 Option Fast Memory Parity/ECC Chock Disabled Passenord setting Setup OS Select Log DOM 2.64MB Non US2	Video BIOS Shadaw : Enabled C8000-C8FFF Shadaw : Disabled D0000-D3FFF Shadaw : Disabled D0000-D3FFF Shadaw : Disabled D8000-D3FFF Shadaw : Disabled D8000-DFFF Shadaw : Disabled D0000-DFFF Shadaw : Disabled D0000-DFFF Shadaw : Disabled Delay For HOD (Secs): 0 Show Bootup Logo : Enabled Flash Write Protect : Enabled
HDD S.M.A.R.T. capability : Disabled	ESC: Quit 11++: Select Item F1 : Help PU/PU/-/ Hodify F5 : Old Values (Shift)F2 : Color F7 : Load Setup Defaults

Figure-4 BIOS Features Setup Menu

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

<u>ltem</u>	Option	Description
ChipAway Virus	Enabled	Guards against boot Virus threats early in the boot
On Guard		cycle, before they have a chance to load into your
		system, ensuring your computer boots to a clean
		operating system.
	Disabled	Invalidates this function.
CPU	Enabled	Enables CPU internal Level1/Level2 cache.
L1/L2 Cache	Disabled	Disables CPU internal Level1/Level2 cache.
CPU	Enabled	Enables CPU L2 Cache ECC (Error Checking
L2 Cache		and Correction) function.
ECC	Disabled	Disables CPU L2 Cache ECC function.
 Quick Power 	Enabled	Enables quick POST. BIOS will shorten or skip some
On Self Test		check items during POST to speed up POST after
		you power on the computer.
	Disabled	Normal POST.
 Boot from 	Enabled	Boot from LAN is ahead of any boot sequence
LAN first		selection (LAN adapter must support this function).
	Disabled	Does not boot from LAN first.
 Boot Sequence 	C,A,SCSI,	Any search sequency can be chosen for booting.
	C,CDROM,A	
	LS/ZIP, C Enabled	Evolution the application of ASP floppy drives
 Swap Floppy Drive 	Disabled	Exchanges the assignment of A&B floppy drives. The assignment of A&B floppy drives are normal.
Direc	DISUDIEU	The assignment of Add hoppy drives are normal.

Manual for Advance 5/133

Award BIO\$ D	escription	
 Boot Up Numlock Status 	On Off	Keypad is used as number keys. Keypad is used as arrow keys.
• Gate A20	Normal	The A20 signal is controlled by the keyboard controller
Option	Fast	or chipset hardware. Default setting. The A20 signal is controlled by Port 92 or the chipset specific method.
 Memory Parity/ ECC Check 	Enabled	Enables the Error Checking & Correction if ECC memory is used.
Password Setting	Disabled System	Disables the ECC function. The system will not boot and access to BIOS
	Setup	Setup will be denied if the correct password is not entered when prompted. The system will boot up, but access to BIOS Setup will be denied if the correct password is not
IDE Second	Enabled	entered when prompted. Enables the second IDE channel.
Channel Control	Disabled	Disables the second IDE channel and releases the IRQ.
 OS Select For DRAM>64MB 	Non-OS2	If your operating system is not OS/2, please select this item.
	OS2	If system DRAM is more than 64MB and the operating system is OS/2, please select this item.
HDD S.M.A.R.T	Enabled	Enables S.M.A.R.T hard disk support.
Capability Video BIOS Shadow 	Disabled Enabled	Invalidates this feature. Video BIOS will be copied to RAM. Video Shadow will increase the video speed.
	Disabled	Video shadow is disabled.
 C8000~CBFFF Shadow: DC000-DFFFF 	Enabled	Optional ROM will be copied to RAM by 16K bytes per unit.
Shadow:	Disabled	The shadow function is disabled.
 Delay For HDD 0~15 (Secs): 	0~15	Sets the pre-delay time for hard disk to be accessed by the system.
Show Bootup	Disabled	Enables the logo when system boots up.
Logo ● Flash Write	Enabled Enabled	Logo will not be shown when system boots up. Does not allow you to upgrade the BIOS.
Protect	LINDICU	Note: Enabling this item can protect the
		system BIOS from being attacked by
		severe virus such as CIH. Therefore disable
		this item only when wanting to flash BIOS, afterwards set this item as Enabled (de-
		fault).
	Disabled	Disabling this item allows you to upgrade the BIOS.

	Ы
Chapter 3	Ч

Chipset Features Setup

ROM PC1/ISD (CHIPSET FEA PMARD SOFT	BIDS (206LGOIC) TURES SETUP WARF INC
Bank 0/1 DRFM Timing : SDRAM 10ms Bank 2/3 DRFM Timing : SDRAM 10ms Bank 2/3 DRFM Timing : SDRAM 10ms SDRAM Cycle Length : 3 Memory Hole : Disabled Read Fround write : Disabled Concurrent PCL/Host : Disabled System BINS Concebele : Disabled Video RAM Cacheable : Disabled AGP Aperture Size : 120M HOP 2N Mode : Disabled OCChip USB : Enabled USE Keybard Support : Disabled Close Empty DIMM/FCI CIK : Enabled	
	ESC: Quit 11++ Select Item F1 : Helo PU/PD/-/ : Modify F5 : Old Values (Shift)F2 : Color F7 : Load Setup Defaults

Figure-5 Chipset Features Setup Menu

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

ltem	<u>Option</u>	Description
 Bank 0/1, 2/3, 4/5 	EDO 50ns	These items are of selected EDO DRAM read/
DRAM Timing	EDO 60ns	write timing. Ensure your DIMMs are as fast as
	Normal	50ns, otherwise select 60ns. The faster you
	Medium	choose, the higher performance you receive.
	Fast	
	Turbo	
 SDRAM Cycle 	2/3	Define the CLT timing parameter of SDRAM
Length		expressed in 66MHz clocks.
		Latency Time = 2 clocks
		Latency Time = 3 clocks
 Memory Hole 	Enabled	Memory Hole at 15-16M is reserved for expanded
		ISA card.
	Disabled	Do not set this memory hole.
Read Around Write	Enabled	Enables read around Write.
0	Disabled	Disables read around write.
Concurrent PCI/	Enabled	Enables concurrent PCI/Host.
HOST	Disabled	Disables concurrent PCI/Host.
System BIOS	Enabled	Beside conventioal memory, system BIOS area is
Cacheable	<u>.</u>	also cacheable.
	Disabled	System BIOS area is not cacheable.
Video RAM	Enabled	Besides conventional memory, video RAM is
Cacheable		also cacheable.
• ACD Aporturo Cine	Disabled	Video RAM area is not cacheable.
AGP Aperture Size	4~256	Sets the effective size of the Graphics Aperture
(MB)		to be used in the particular PAC Configuration.

Award BIOS Description 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 Enabled USB keyboard support is enabled. Support Disabled USB keyboard support is disabled. Close Empty Enabled Closes empty DIMM or PCI clock to reduce DIMM/PCI Clk EMI. Does not close empty DIMM or PCI clock. Disabled

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Chapter 3	Ы

Power Management Setup

RUM PC1/1SA P POWER MANAGA AWARD SOFT	
ACPI function : Disabled Power Management : User Define PM Control bw FPM : Yes Video Off After : Suspend Video Off Method : V/H SVRC-Blank HODP/H Use IF0 Soft-Off by PMRBIN : Instant-Off CPU Fem in Suspend : Off HDD Power Down : Disable Doze Node : Disable Suspend Mode : Disable VGH : CFF USB : CFF :	Primary INTR ON 1003 (LOM 2) Primary 1004 (CM 1) Primary 1005 (LPT 2) Primary 1005 (LPT 2) Primary 1007 (LPT 1) Primary 1009 (RTC Flarm) Disabled 1009 (RTC Flarm) Disabled 1009 (Reserved) Secondary 10010 (Reserved) Secondary 10010 (Reserved) Disabled 1000 Demo In Suspend Disabled
Hober Hind Resume : Disabled RTC Alarm Resume : Disabled Wake Up On LAW : Disabled	ESC: Quit ti++ : Select Item F1 : Help FU/PD/-/- Hodify F5 : Old Values (Shift)F2 : Color F7 : Load Setup Defaults

Figure-6 Power Management Setup Menu

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

<u>ltem</u>	<u>Option</u>	Description
 ACPI function 	Enabled	Validates ACPI function.
	Disabled	Invalidates ACPI function.
Power	User Define	Users can configure their own Power Management
Management		Timer.
	Min Saving	Pre - defined timer values are used. All timers are
		in their MAX values.
	Max Saving	Pre - defined timer values are used. All timers are in
		their MIN values.
 PM Control by 	No	System BIOS will ignore APM when Power
APM		Management is enabled.
	Yes	System BIOS will wait for APM's prompt before
		entering any PM mode e.g. Standby or Suspend.
 Video off after 	N/A	System BIOS will never turn off the screen.
	Suspend	screen off after system enters into Suspend mode.
	standby	Screen off after system enters into Standby mode.
	Doze	Screen off after system enters into Doze mode.
Video Off	Blank Screen	
Method		when disabling video.
	V/H SYNC +	
	Blank	off the V-SYNC & H - SYNC signals from VGA cards to monitor.
	DPMS	This function is enabled only for the VGA card
	Support	supporting DPMS.
 Soft-off by 	Instant-off	The system will power off immediately once the
PWRBTN		power button is pressed.
	Delay 4 Sec	The system will not power off until the power
	-	button has been pressed continuously for more
		than 4 seconds.
	Man	ual for Advance 5/133
	IVIAI	iual for Auvalice 5/155 37

 CPU Fan In 	On	CPU fan remains on when the system enters
Suspend		suspend mode.
	Off	CPU fan will be automatically turned off when the
		system enters suspend mode.
 HDD Power 	Disabled	Disables HDD Power Down Timer.
Down	1 ~15 Min	Defines the continuous HDD idle time before the
_	.	HDD enters power saving mode (motor off).
 Doze mode 	Disabled	The system never enters Doze mode.
	10Sec ~ 1 Hr	
		enters Doze mode. If any items defined in "PM Events"
 Suspend Mode 	Disabled	are on and activated, the system will be woken up. The system never enters Suspend mode.
	10Sec~ 1Hr	Defines the continuous idle time before the system
	10360~ 111	enters Suspend mode. If any items defined in
		"PM Events" are on and activated, the system will
		be woken up.
Wake up on LAN	Enabled	Allows the system to be powered on when a
	2.700.000	remote waker-up signal comes up to the WOL
		headerfrom LAN adapter.
	Disabled	Does not allow wake-up on LAN.
• VGA	On	VGA active reloads global timer.
	Off	VGA active has no influence to global timer.
 LPT&COM 	LPT/COM	Set the options of these items to reload global timer.
HDD&FDD	OFF/ON	
DMA/master	ON/OFF	
Wake Up On LAN	Enabled	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.
	Disabled	Does not allow wake up on LAN.
Modem Ring	Enabled	Allows the system to be powered up when a ring
Resume		indicator singal comes up to UART1 or UART2 from
		an external modem or comes up to WOM header
	Dischlad	from an internal modem card.
	Disabled	Does not allow Ring Power-on.
 RTC Alarm Resume 	Enabled	RTC alarm can be used to generate a wake event to power up the system which is in soft power-
Resume		down status. You can set any date or any time to
		power up the system.
	Disabled	RTC has no alarm function.
 Primary INTR 	Primary	Reload global timer.
IRQ (3-15)	Secondary	No influence to global timer, except finishing an
	Cocondary	operation that IRQ "X" requests.
	Disabled	No influence to global timer.
HDD Down In	Enabled	HDD's motor will be off when the system enters
Suspend	1.100.00	suspend mode.
2000000	Disabled	HDD' s motor remains on.

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Chapter 3	Ы

PNP/PCI Configuration Setup

ROM PCIVISE BIDS (2006 GDC) PMP/PCI CONFIDERBIION PMRRD SOFTWARE, INC.			
PNP-05 Installed : Bol Resources Controlled By : Menual Reset Configuration Data : Disabled IRU-4 assigned to : PCI/ISD PnP IRU-5 assigned to : PCI/ISD PnP IRU-5 assigned to : PCI/ISD PnP IRU-7 assigned to : PCI/ISD PnP IRU-11 assigned to : PCI/ISD PnP IRU-12 assigned to : PCI/ISD PnP IRU-13 assigned to : PCI/ISD PnP IRU-14 assigned to : PCI/ISD PnP IRU-14 assigned to : PCI/ISD PnP IRU-15 assigned to : PCI/ISD PnP IRU-16 assigned to : PCI/ISD PnP IRU-17 assigned to : PCI/ISD PnP IRU-18 assigned to : PCI/ISD PnP IRU-19 assigned to : PCI/ISD PnP	CPU to PCI Write Buffer: Enabled PCI Openanic Bursting Enabled PCI Master 0 WS Write : Enabled PCI Master 0 WS Write : Enabled PCI Delay Transaction : Enabled PCI Delay Transaction : Enabled PCI Recess HI Betry : Disabled RCP Master 1 WS Write : Enabled RCP Master 1 WS Write : Enabled PCI IRO Actived By : Level Ressign IRO For USB : Enabled Hssign IRO For USB : Enabled Hssign IRO For WCH : Enabled ESC : Quit 11++ : Select Item FI : Help : (AL/MO/-/ : Modify FS : Old Values (Shift)F2 : Color F7 : Load Selup Defaults		

Figure-7 PNP/PCI Configuration Setup Menu

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

Item	<u>Option</u>	Description
 PNP OS Installed 	Yes	Device resources assigned by PnP OS.
	No	Device resources assigned by BIOS.
 Resources 	Manual	Assigns the system resources (IRQ and DMA)
Controlled By		manually.
	Auto	Assigns system resources (IRQ and DMA) auto- matically by BIOS.
 Reset Configuration 	Enabled	The system BIOS will reset configuration data
Data		once then automatically set this item as disabled.
	Disabled	Disables the configuration data function.
 IRQ-3~IRQ-15 	Legacy ISA	The specified IRQ-x will be assigned to ISA only.
assigned to	PCI/ISA PnP	The specified IRQ-x will be assigned to ISA or PCI.
 DMA-0~DMA-7 	Legacy ISA	The specified DMA-x will be assigned to ISA only.
assigned to	PCI/ISA PnP	The specified DMA-x will be assigned to ISA or PCI.
CPU to PCI Write	Enabled	Enables CPU to PCI Write Buffer.
Buffer	Disabled	Disables CPU to PCI Write Buffer.
 PCI Dynamic 	Enabled	Enables PCI Dynamic Bursting.
Bursting	Disabled	Disables PCI Dynamic Bursting.
PCI Master 0 ws	Enabled	Enables PCI Master ws Write.
Write	Disabled	Disables PCI Master ws Write.
 PCI Delay 	Enabled	Enables PCI Delay Transaction.
Transaction	Disabled	Disables PCI Delay Transaction.

	Description	
PCI #2 Access #1	Enabled	Enables PCI #2 Access #1 Retry.
Retry	Disabled	Disables PCI #2 Access #1 Retry.
AGP Master 1 ws	Enabled	Enables AGP Master 1 ws Write.
Write	Disabled	Disables AGP Master 1 ws Write.
AGP Master 1 ws	Enabled	Enables AGP Master 1 ws Read.
Read	Disabled	Disables AGP Master 1 ws Read.
 PCI IRQ Actived 	Level	Select PCI IRQ Active mode.
Ву	Edge	
 Assign IRQ 	Enabled	Assigns an IRQ for USB. If an USB device is
for USB		used, enables this item.
	Disabled	Does not assign an IRQ for USB. If no USB device
		is used, disabling this item can release the IRQ.
 Assign IRQ 	Enabled	Assigns the needed IRQ for the VGA Card.
for VGA	Disabled	Does not assign an IRQ for the VGA card, in
		order to release the IRQ.
 Assign IRQ for 	IRQ9~IRQ11	Assigns the IRQ for ACPI.

Chapter 3	Chapter 3	þ
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Integrated Peripherals

ROM PCL71SR EIDS (2065.0018) INTERRATO PERTPHERALS SHARKD SOFTWARE, INC.			
OnChip IDE Channel0 : Enabled UnChin IDE Channel1 : Enabled IDE Profetch Mode : Enabled IDE HED Block Mode : Enabled Primary Moster PID: Auto	Onboard Serial Port 1 : 3F8/IR04 Dhboard Serial Port 2 : 2F8/IR03 Serial Port 2 Mode : Normal		
Primary Klave PIO: Auto Secondary Master PIO: Auto Frimary Master UDMA: Auto Frimary Master UDMA: Auto Frimary Slave UDMA: Auto Secondary MasterUDMA: Auto Secondary Slave UDMA: Auto Init Display First : PEI Stot	Onboard Parallel Port : 378/180 Parallel Port Mode : SPP		
POUER ON Function : Password/Button KB Power ON Password : Enter Onboard FDC Controller : Enabled	ESC: Quit 11**: Select Item FI : Help PU/PD/+/- : Modify F5 : Old Values (Shift)F2 : Color F7 : Lood Setup Defoults		

Figure-8 Integrated Peripherals Menu

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

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

Award BIO\$ Description Password Enables the keyboard password power-on function and disables the power button's poweron function. Other than choosing this option, the password should be set to implement this function. 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. 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. Onboard FDC Enabled Onboard floppy disk controller is enabled. Controller Disabled Onboard floppy disk controller is disabled. Onboard Serial 3F8/IRQ4. Defines the onboard serial port address and required Port 1/2 2F8/IRQ3, interrupt number. 3E8/IRQ4. 2E8/IRQ3, Auto Onboard serial port address and IRQ are automatically assigned Disabled Onboard serial port is disabled. • Serial Port 2 Standard Defines Serial Port 2 as standard serial port. Mode Sharp IR Supports SHARP ASK-IR protocol with maximum baud rate up to 57600bps. IrDA SIR Supports IrDA version1.0 SIR protocol with maxiumum baud rate up to 115.2Kbps. Onboard Parallel 378/IRQ7. Defines onboard parallel port address and IRQ 278/IRQ5, channel. Port 3BC/IRQ7 Disabled Onboard parallel port is disabled. Parallel Port Mode SPP Defines the parallel port mode as EPP Standard Parallel Port (SPP), Enhanced ECP, Parallel Port (EPP), or Extended ECP+EPP Capabilities Port (ECP).

Chapter 3	þ
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System Monitor

<u>ltem</u>

ROM PCI/ISA DIOS (2069K019) System Monitor ANARD SOFTMARE, INC.		
Current System Temp.	: 30°C/86°F	
Current CHSEAN Speed Current CPUEAN Speed	: 4320 RPM : 2010 RPM	
VTT(+1.5V) Voltage : 1	1.79 V 2.03 V	ESC : Quit 11++ : Select Item F1 : Nelo PU/PD/+/- : Modify F5 QLd Values (Shift1F2 : Color F7 : Loed Setup Defaults

Figure-9 System Monitor Menu

Description

Current

	<u>Data Shown</u>	
Current System Temp.Current CHSFAN Speed	30ºC/ 86ºF 2010RPM	The temperature inside the chassis. connected to the fan header CPUFAN/ CHSFAN/BAKFAN.
Current CPUFAN Speed	4320RPM	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.
 +3.3V Voltage VTT(+1.5V) Voltage, + 5V VCCVID(CPU) Voltage +12V -12V 	3.32V 1.37V 4.84V 1.98V 11.79V -12.03V	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.
Chassis Status Closed	Closed Opened	Indicates status of chassis is closed. Indicates status of chassis is opened.

Award BIOS Description

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.

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Chapter 3	Ч

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	I 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: Ski	ip						

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.

Manual for Advance 5/133

2. HDD Modes

Award BIOS Description

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

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.

Manual for Advance 5/133

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 enables 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

Appendix

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.

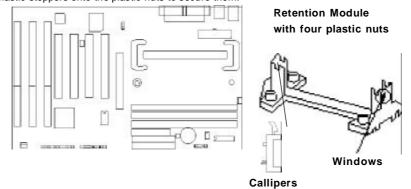
- 4. QDI Mainboard Utility: The utilities located in the directory \Utility are: FLASH.EXE CBLOGO.EXE LF.EXE Refer to the online help for information on how to use these utilities.
- 5. Documents for QDI Mainboard: The files included in the directory \Doc are: Adobe Acrobat Reader V3.0 -ar32e301.exe ManageEasy Manuals -- QMEV12.PDF.

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ppendix	4

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.

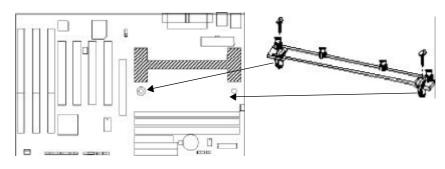


Note: 1. If choosing to use CeleronTM Processor, snap-on Callipers onto the retention module.

2. If choosing to use Intel CeleronTM PPGA 370 processor, other than placing the callipers, the socket 370 card with CPU and CPU fan should be installed.

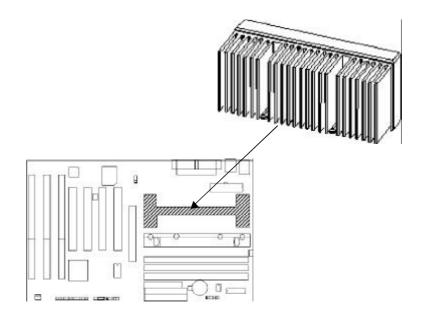
3. Please note the retention module has one orientation. If one way doesn' t fit, change the direction to the other way. Do not forcefully press the retention module onto the mainboard.

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

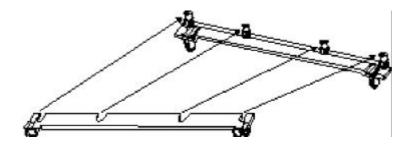


Manual for Advance 5/133

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



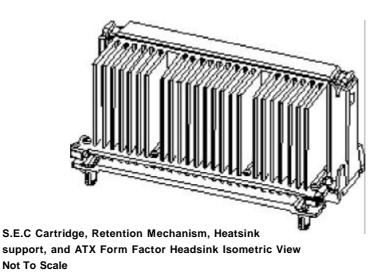
4. Clip Plastic Bar onto the HSSBASE through the fins on the processors' heatsink.







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



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.

P/N : 430-01017-101-00 Manual Advance 5/133 Ver 1.0



The patent for SpeedEasy

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

The information in this document is subject to change in order to improve reliability, design, or function without prior notice and does not represent a commitment on the part of this company. In no event will we be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or the possibility of such damages.

All trademarks are the property of their respective owners.

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

Board Layout of Advance 5/133 V1.0

Declaration of conformity									
CE									
QUANTUM DESIGNS(HK) LTD. 5/F Somerset House, TaiKoo Place 979 Kings Road, Quarry Bay, Hong Kong									
	declares that the product								
	Pentium [®] II Mainboard								
	Advance 5/133								
	is in conformity with the specification under which conformity is declared in coordance with 89/336 EEC-EMC Directive)								
🗹 EN 55022	Limits and methods of measurements of radio disturbance characteristics of information technology equipment								
EN 50081-1	Generic emission standard Part 1: Residential, commercial and light industry								
☑ EN 50082-1	Generic immunity standard Part 1: Residential, commercial and light industry								
European Representative: QDI COMPUTER (UK) LTD QDI COMPUTER (SCANDINAVIA) A/S QDI SYSTEM HANDEL GMBH QDI COMPUTER (NETHERLANDS) B. V. QDI COMPUTER (FRANCE) SARL QDI COMPUTER HANDELS GMBH QDI COMPUTER (ESPANA) S.A. QDI COMPUTER (SWEDEN) AB Signature :									
Printed Name And	ers Cheung Position/ Title : President								

Declaration of conformity							
FC							
Trade Name:	QDI Computer (U.S.A.) Inc.						
Model Name:	Advance 5/133						
Responsible Party:	QDI Computer (U. S. A.) Inc.						
Address:	41456 Christy Street						
	Fremont, CA 94538						
Telephone:	(510) 668-4933						
Facsimile:	(510) 668-4966						
Facsimile:(510) 668-4966Equipment Classification:FCC Class B SubassemblyType of Product:AGP Pentium®II MainboardManufacturer:Quantum Designs (HK) Inc.Address:5/F, Somerset House, TaiKoo Place979 Kings Road, Quarry Bay, HONGKONG							
Supplementary Information:							
the following two conditions : (1	15 of the FCC Rules. Operation is subject to 1) this device may not cause harmful interfer- ccept any interference received, including lesired operation. Date : 1999						

CONTENTS

SpeedEasy¿ËÙ ⅔ ÖÄ ÏÖ ĎÄ Ì à	1
SpeedEasy; Ё Ѷ ⅔ Ö Ä ÏÖ Ď Ä ð à	3
SpeedEasy Quick Setup(English)	5
SpeedEasy Schnell-Installation(Deutsch)	
Fácil Y Veloz Rápida Instalación(Español)	
Facilité de vitesse Initialisation(Francais)	
Setup Della Scheda SpeedEasy(Italiano)	13
1. Introduction	45
Overview	
Key Features	
Introduction to New Features	
	10
2. Installation Instructions	19
External Connectors	19
PS/2 Keyboard & PS/2 Mouse Connector	19
USB1&USB2	19
Parallel Port Connector and Serial Port Connector	19
ATX Power Supply Connector & Power Switch(POWER)	20
Hard Disk LED Connector (HD_LED)	20
Reset Switch (RESET)	20
Speaker Connector (SPEAKER)	20
Power LED Connector(PW R_LED)	20
Key_Lock Connector (KEY_L)	20
ACPILED Connector (GREEN_LED)	21
Hardware Green Connector (SLEEP)	
Infrared Header (IrDA)	
Fan Connector (CPUFAN & CHSFAN)	
Wake-Up On LAN (WOL)	
Wake-Up On Internal Modem (WOM)	
Chassis Security Switch (CHSSEC)	
Sound Connector (PC-PCI)	
Expansion Slots & I/O Ports description	23
Jumper Settings	24
Clear CMOS	24
Selection of Front-Side Bus (JFSB1, JFSB2, JCLK)	24



N

CONTENTS

Enable keyboard password power-on function(JKB)	25
BIOS Write Protection Jumper(JAV)	25
Memory Configuration	26
3. BIOS Description	27
Utility Support	27
FLASH.EXE	27
AWARD BIOS Description	29
Entering Setup	29
Load Setup Defaults	29
Standard CMOS Setup	29
SpeedEasy CPU Setup	32
BIOS Features Setup	33
Chipset Features Setup	35
Power Management Setup	37
PNP/PCI Configuration Setup	39
Integrated Peripherals	41
System Monitor	43
Supervisor/User Password Setting	44
IDE HDD Auto Detection	45
Boot with BIOS defaults	46
Appendix A QDI Mainboard Utility CD-ROM	47
Appendix B Processor Installation Procedures	••
Appendix C Boot Logo	
	JZ

II

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Manual for Advance 5/133

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Manual for Advance 5/133

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SpeedEasy Quick Setup

Procedures :

- 1. Correctly insert the Intel Pentium[®]II/ Pentium[®]III/ Celeron[™] processor.
- 2. Plug in other configurations and restore the system.
- 3. Switch on power to the system and press the key to enter BIOS Setup.
- 4. Enter "SpeedEasy CPU SETUP" menu to set up the CPU speed.

Note: If you do not set the CPU speed, your system will run at the default setting (200MHz for processor with 100MHz host bus speed, 133MHz for processor with 66MHz host bus speed, for bus ratio locked processor, run its real speed.

5. Save and exit BIOS Setup, your system will now boot successfully.

Manual for Advance 5/133

SpeedEasy Type Introduction

SpeedEasy CPU Setup Menu

Select <SpeedEasy CPU SETUP> item from the main menu and enter the sub-menu:

ROM PCI/ISA BIOS (2AGLGOIC) CPU FEATURES SETUP ANAMO SUFINANC. INC.							
CPU Model : Penticm(R)II CPU Speed : 200Mhz(56x3) Clock Spread Spectrum : Disabled	Marning: Be sure your selection is right. CPU over speed will be dongerous!						
	FSC: Quit 11++: Select Them F1 : Help PU/PE/+/-: Modify F5 : Old Values (Shift)F2 : Color F7 : Lood Setup Defaults						

Figure - 1 SpeedEasy CPU Setup Menu

BIOS provides you with a set of basic values for your processor selection instead of the jumper settings. The processor speed can be manually selected on the "SpeedEasy CPU SETUP" menu screen.



Dot not set CPU frequency higher than its working frequency. If you do, we will not be responsible for any damages caused.



Schnell-Installation durch SpeedEasy

Vorgehensweise der Installation:

- 1. Legen sie die Pentium[®]II/ Pentium[®]III/ Intel[®] Celeron[™] im Slot 1 mit Hilfe der mitgelieferten halterung.
- 2. Vervollständigen Sie das System mit den weiteren erforderlichen Coputerkomponenten
- Drücken Sie die Taste < Entf > und schalten Sie das System an um das BIOS-setup zu gelangen.
- 4. Steigen Sie in das Menü "SpeedEasy CPU SETUP" ein, um die Geschwindigkeit einzustellen.

ACHTUNG:Falls Sie die Taktfrequenz der CPU nicht setzen, arbeitet Ihr System mit den Standardwerten für die CPU. (200MHz für den CPU mit 100MHz Host Bus Speed, 133MHz für den CPU mit 66MHz Host Bus Speed).

 Speichern Sie die Einstellungen und verlassen Sie das BIOS, um die auvor eingestellte Taktfrequenz zu aktivieren.

Manual for Advance 5/133

SpeedEasy Einführung

SpeedEasy CPU Installationsmenü

Wählen Sie < SpeedEasy CPU SETUP> aus dem Hauptmenü und öffnen Sie das untergeordnete Menü



Abb. 1 SpeedEasy CPU Installationsmenü

Das BIOS stellt Ihnen eine Reihe von Grundeinstellungen für Ihren CPU zur Verfügung, anstelle von "jumper setting". Sie können manuell die Geschwindigkeit des CPU innerhalb des "SpeedEasy CPU SETUP" einstellen



Bitte Setzen Sie die Taktfrequenz dor CPU nicht höber als die tats‰hliche freigegebene Taktfrequenz, ansonsten Kann QDI für rechtliche Anspruche nicht herangezogen werden.

8



SpeedEasy Instalación rápida

Procedimiento:

- 1. Introduzca correctamente el Pentium®II/ Pentium®III/ Intel® Celeron™
- 2. Finalize el proceso de ensamblaje de su equipo.
- 3. Presione la tecla <Supr> y encienda el sistema, para entrar en BIOS.
- 4. Entre al menu "SpeedEasy CPU SETUP" para establecer la velocidad de su CPU.

Nota: Si no establece la velocidad del CPU, su sistema funcionará a la velocidad minima por defecto (200MHz para CPU con velocidad de bus de 100MHz, 133MHz para CPU con velocidad de bus de 66MHz)

 Salve y salga de BIOS, luego su sistema arrancará a la velocidad por Ud. seleccionada.

Manual for Advance 5/133

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g	Introducción de Instalación SpeedEasy						

Menu del SpeedEasy CPU

Seleccione el item <SpeedEasy CPU SETUP> desde el menu principal, y entre en el submenu:



Figura-1 Menu del CPU SpeedEasy

BIOS le proporcionará unos valores básicos para la elección de su CPU, en vez de tener que configurar jumpers. Ud. puede seleccionar manulmente la velocidad de CPU en el menu "SpeedEasy CPU SETUP".

