



Item Checklist

This item checklist is only available for retail market. Completely check your package, If you discover damaged or missing items, contact your retailer.

- J6A series mainboard
- QDI Driver CD
- User's manual
- 1 IDE ribbon cable
- 1 floppy ribbon cable
- I/O shield(option)
- 1 10-pin ribbon cable with bracket for USB (optional)



Notice

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Declaration of Conformity



QUANTUM DESIGNS(HK) LTD.
20th Floor, Devon House, Taikoo Place, 979 King's Road,
Quarry Bay, Hong Kong

declares that the product

Mainboard J6A

is in conformity with

(reference to the specification under which conformity is declared in
accordance 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 SYSTEM HANDEL GMBH

QDI COMPUTER(FRANCE)SARL

LEGEND QDI SPAIN S.L.

QDI COMPUTER(SCANDINAVIA)A/S

QDI EUROPE B.V

QDI COMPUTER HANDELS GMBH

QDI COMPUTER(SWEDEN)AB

Signature : Xu Wenge

Place / Date : HONG KONG/2002

Printed Name : Xu Wenge

Position/ Title : Assistant President



Declaration of Conformity



Trade Name: QDI Computer (U . S . A.) Inc.
Model Name: J6A
Responsible Party: QDI Computer (U . S . A.) Inc.
Address: 41456 Christy Street
Fremont, CA 94538
Telephone: (510) 668-4933
Facsimile: (510) 668-4966

Equipment Classification: FCC Class B Subassembly
Type of Product: Motherboard
Manufacturer: Quantum Designs (HK) Ltd.
Address: 20th Floor, Devon House, Taikoo Place
979 King's Road, Quarry Bay, HONG
KONG

Supplementary Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Tested to comply with FCC standards.

Signature : Xu Wang

Date : 2002



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Caution

Be sure to unplug the AC power supply before adding or removing expansion cards or other system peripherals, especially the memory devices, otherwise your mainboard or the system memory might be seriously damaged.



Caution

Be sure to add some Silicone Grease between the CPU and the heatsink to keep them fully contacted to meet the heat sink requirement.





Chapter 1

Introduction

Overview

J6A series are multimedia, high performance, cost-effective and energy efficient mainboards based on VIA C3 BGA processors. The green mainboard utilizes the VIA Apollo PLE133 chipset consisting of the VIA VT8601A and the VIA VT82C686B. The chipset integrates AGP 2D/3D graphics accelerator to provide high graphics performance. It supports the Ultra DMA33/66/100 IDE, PC100/PC133 SDRAM and AC'97 audio. In addition, advanced features are supported such as ACPI power management and hardware monitoring. Especially it supports television display and IEEE1394, which is ideal for playing games, giving presentations, watching movies, and browsing the Internet with a high quality TV image. BootEasy, QDI innovation, lets the PC boot freely and rapidly.

Key Features

Form Factor

- mATX form factor of 220mm x 210mm

Microprocessor

- Supports all VIA C3 BGA processors at 500/550/566/600/667/733/866MHz and future processors.

Chipset

- VIA Apollo PLE133 chipset: VT8601A + VT82C686B

Memory

- Provides one 168-pin 3.3V 100/133MHz DIMM socket
- Supports PC100/PC133 SDRAM

Onboard IDE

- Two fast IDE interfaces supporting four IDE devices including IDE hard disks and CDROM drives
- Supports Ultra DMA33/66/100



Onboard I/O

- 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 FIFO
- One parallel port supports SPP/EPP/ECP mode
- Supports PS/2 mouse and PS/2 keyboard
- Provides four USB
- Provides one IrDA connector
- Provides two IEEE 1394 connectors
- Provides one S-Video out connector
- Provides one Video/SPDIF connector

Onboard Audio

- Standard AC'97 Codec interface
- Provides onboard Line-in Jack, Microphone-in Jack, Speaker-out Jack with onboard amplifier and MIDI/Joystick Connector

Onboard AGP

- Supports AGP 4x
- Integrated 2D/3D Graphics Controller

Onboard LAN(optional)

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

Advanced Features

- PCI 2.2 Specification Compliant
- Provides Trend ChipAwayVirus On Guard
- Supports Windows 98/2000/ME/XP soft-off
- Supports system monitoring (monitors system temperature, CPU temperature, voltages and fan speed)
- Provides the second PCI connector to support two additional PCI connectors
- Providing QDI innovations: BootEasy, logoEasy, BIOS-ProtectEasy, RecoveryEasy



BIOS

- Licensed advanced AWARD(Phoenix) BIOS
- Supports Flash ROM with plug and play ready
- Supports IDE/CDROM/SCSI bootup

Green Function

- Supports ACPI (Advanced Configuration and Power Interface) and ODPM (OS Directed Power Management)
- Supports ACPI power status: S0(Full-on), S1(Suspend), S4(STD,suspend to Disk, depends on OS), S5(Soft-off)

Main Expansion Slots and Connectors

| Slot/Port (Quantity) | Description |
|----------------------|-------------------------|
| PCI(2) | PCI slots |
| IDE(2) | IDE ports |
| FLOPPY(1) | Floppy Drive port |
| DIMM(1) | DIMM socket |
| USB(4) | USB connectors |
| VGA(1) | VGA connector |
| LAN(1) | LAN connector |
| UART(2) | UART connectors |
| PARALLEL(1) | Parallel connector |
| IrDA(1) | IrDA connector |
| MIDI/Joystick(1) | MIDI/Joystick connector |
| IEEE 1394(2) | IEEE 1394 connectors |
| S_video out (1) | S_video out connector |
| Video/SPDIF(1) | Video/SPDIF connector |

Note: Our technology is now being upgraded, the description and Interface for Easy technology in this manual are only for your reference. If you would like to get the upgraded version, please download the latest BIOS or the utility from the website to re-flash your mainboard; if your mainboard supports the latest version Easy technology, refer to the webpage for functions and detailed operation of the technology.



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Chapter 2

Installation Instructions

This section covers External Connectors and Jumper Settings. Refer to the motherboard layout chart for the 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 states 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.

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 and LAN Connectors

Two USB ports are for connecting USB devices. The RJ-45 connector is for onboard LAN.



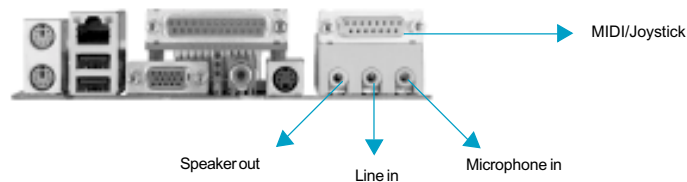
Be sure to unplug the AC power supply before adding or removing expansion cards or other system peripherals, otherwise your mainboard and expansion cards might be seriously damaged.



Installation Instructions

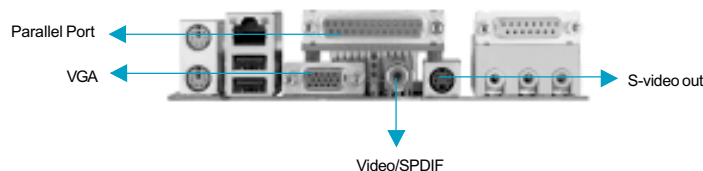
Line-in jack, Microphone-in jack, Speaker-out jack and MIDI/Joystick Connector

The Line-in jack can be connected to devices such as a cassette or minidisc player to playback or record. The Microphone-in jack can be connected to a microphone for voice input. The Speaker-out jack allows you to connect speakers or headphones for audio output from the internal amplifier. The MIDI/Joystick connector allows you to connect a game joystick or a MIDI device.



Parallel Port, Monitor Output Connector (VGA), Video/SPDIF connector, and S_Video out connector

The parallel port connector can be connected to a parallel device such as a printer. The VGA connector is for output to a VGA-compatible device. You can enable/disable them and choose the IRQ or I/O address in "INTEGRATED PERIPHERALS" in AWARD BIOS SETUP. The Video/SPDIF or S-Video connector can connect a television, supporting S_Video, Compose Video, Scart outputs and automatic detection of TV presence.



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.

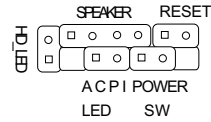
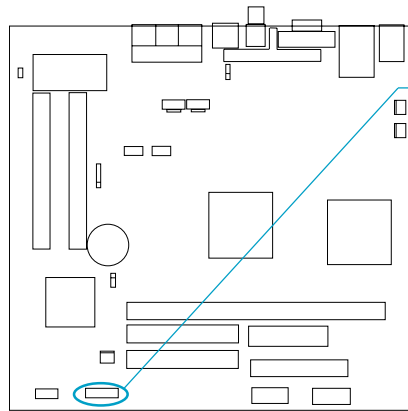
Reset Switch (RESET)

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.





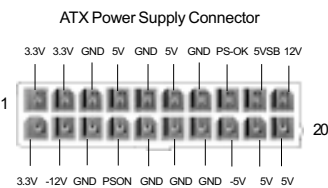
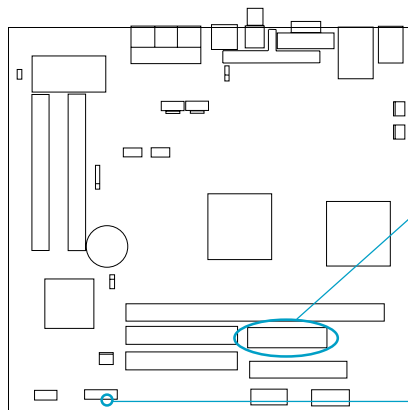
| | | | | | | |
|-------------------|---------|--------------|------------|---------|-------|-----|
| HDD LED (-) | SPEAKER | | | | RESET | |
| | VCC | GND | NC | SPKDATA | RESET | GND |
| HDD LED (+) | NC | GREEN (-) | LED (+) | POWER | GND | NC |
| | | ACPI_LED | | | | |

ACPI LED Connector (ACPI LED)

When the system is in S0 status, the LED is green on. When the system is in S1 status, the LED is green blink. When the system is in S4/S5 status, the LED is off.

ATX Power Supply Connector & Power Switch(POWER SW)

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

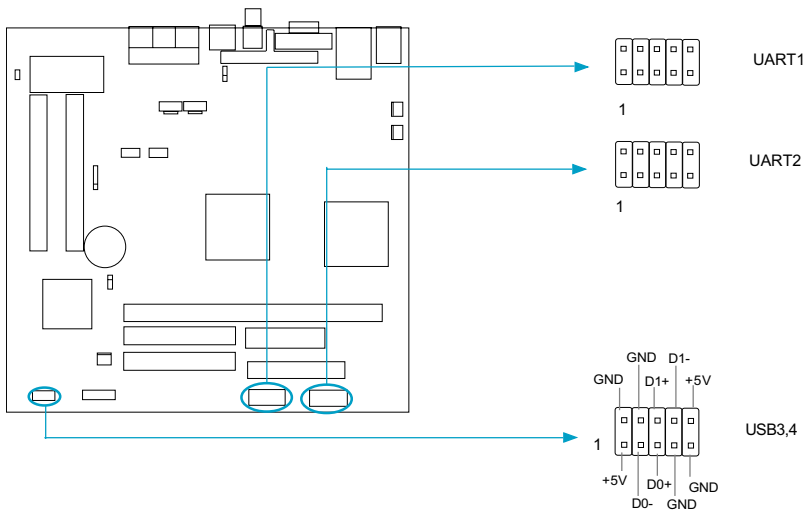


Note: If you change “soft-off by PWRBTN” from default “Instant-off” to “Delay 4 Sec” in the “POWER MANAGEMENT SETUP” section of the BIOS, the power button should be pressed for more than 4 seconds before the system powers down.



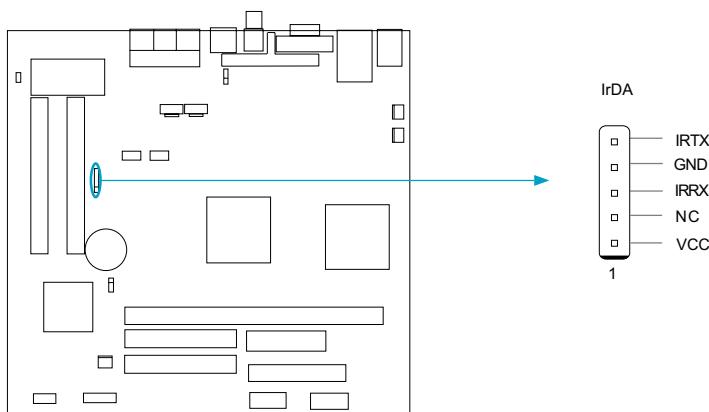
USB3,4 and Serial Port Connectors(UART1, 2)

Besides USB1,2 on the back panel, the mainboard also have a 10-pin header on board which may connect to a front panel USB cable to provide additional two USB ports. And the mainboard also have two headers on board which may connect to a cable to provide two additional UART ports.



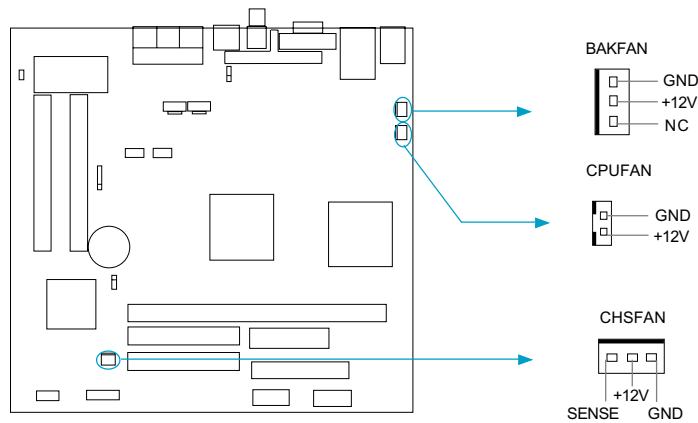
Infrared Header (IrDA)

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



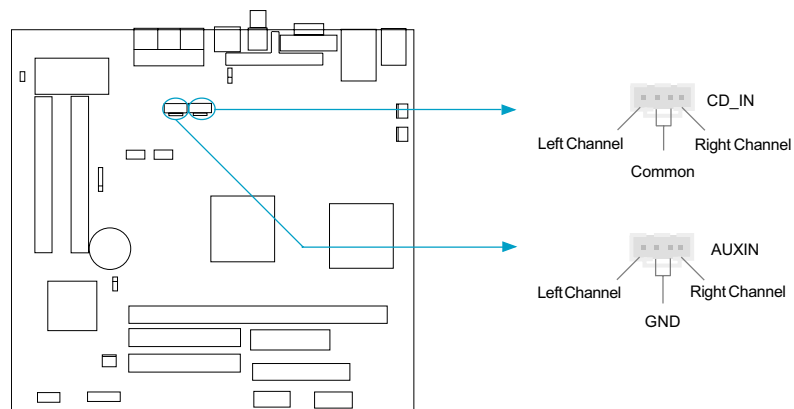
Fan Connectors (CPUFAN, BAKFAN, CHSFAN)

The fan speed of CHSFAN can be detected and viewed in "PC HEALTH" section of the BIOS. CPUFAN and CHSFAN will be automatically turned off after the system enters suspend mode.



Audio Connectors (CD_IN, AUX_IN)

CD_IN is a sony standard CD audio connector, it can be connected to a CD-ROM drive through a CD audio cable. AUX_IN allow you to receive stereo audio input from sound sources such as a TV tuner, or MPEG card.

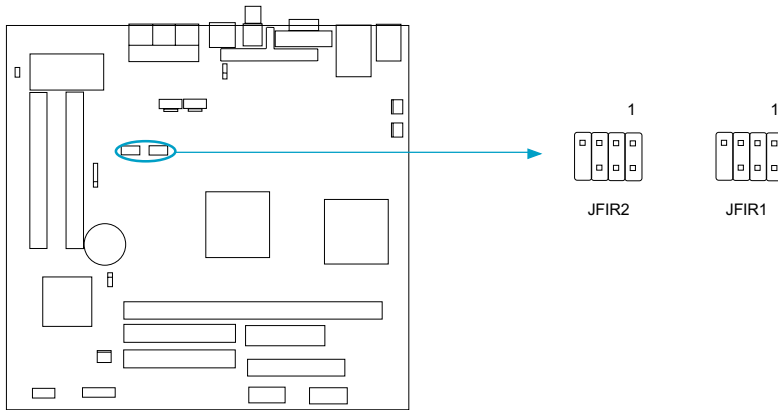







Installation Instructions







IEEE 1394 Connector(JFIR1, 2)

The two connectors can connect two 1394 Integrated Devices, such as 1394 AUDIO, 1394 VIDEO. It enhances the connectivity of the mainboard for consumer, making it an ideal solution for delivering optimum performance and ease-of-use for in-home network, digital video recorders and other digital consumer electronics.



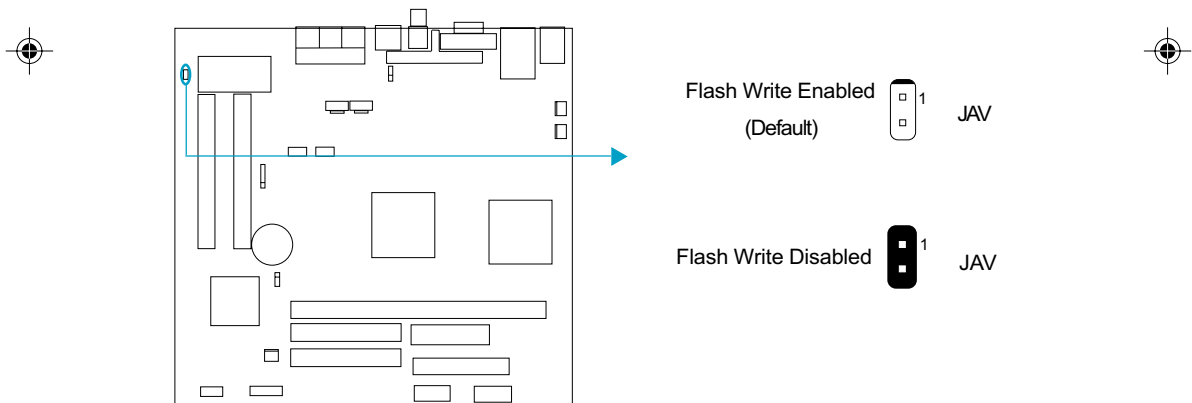
Jumper Settings

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

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

BIOS-Protect Jumper (JAV)

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



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

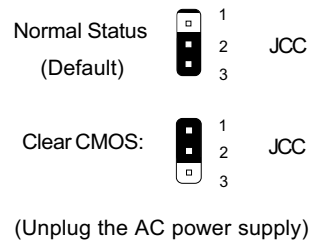
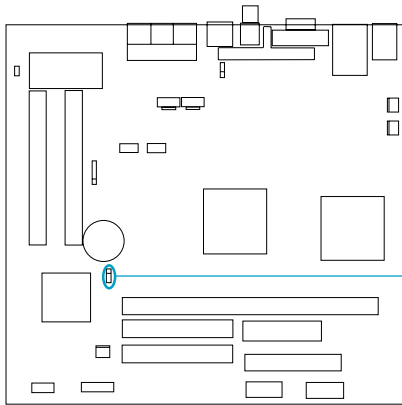
The DMI (Desktop Management Interface) system information such as the CPU type/speed, memory size, and expansion cards will be detected by the onboard BIOS and stored in the flash ROM. Whenever the system hardware configuration is changed, DMI information will be updated automatically. However, setting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



Installation Instructions

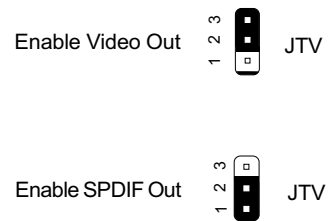
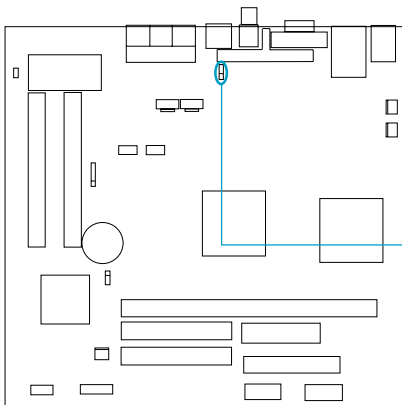
Clear CMOS (JCC)

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.



Enable Video/SPDIF Out Jumper(JTV)

If you want to use the television display, set JTV with pin2 & pin3 closed. Otherwise, set JTV with pin1&pin2 closed for use SPDIF OUT function.





Chapter 3

BIOS Description

Utility Support:

AWDFLASH.EXE

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

- **We strongly recommend you only upgrade BIOS when encounter problems.**
- **Before upgrading your BIOS, review the description below to avoid making mistakes, destroying the BIOS and resulting in a non-working system.**

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

Follow the steps exactly for a successful upgrade.

1. Create a bootable system floppy diskette by typing Format A:/s from the DOS prompt under DOS6.xx or Windows 9x environment.
2. Copy AWDFLASH.EXE(version>=8.03) from the directory \Utility located on QDI Driver CD to your new bootable diskette.
3. Download the updated BIOS file from the Website (<http://www.qdigrp.com>). Please be sure to download the suitable BIOS file for your motherboard.
4. Decompress the file download, copy the BIOS file (xx.bin) to the bootable diskette, and note the checksum of this BIOS which is located in readme file.
5. Reboot the system from the bootable diskette created.
6. Then run the AWDFLASH utility at the A:\ prompt as shown below:

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

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

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

Note: Because the BIOS Software will be updated constantly, the following BIOS screens and descriptions are for reference purposes only and may not reflect your BIOS screens exactly.



AWARD BIOS Description

Entering Setup

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

Press to enter SETUP

When you have entered, the Main Menu (Figure 1) appears on the screen. Use the arrow keys to select among the items and press the <Enter> key to accept or enter the sub-menu.



Figure-1 Main Menu

Load Optimized Defaults

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

Standard CMOS Features Setup

The basic CMOS settings included in "Standard CMOS Features" 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 desired in each item.



Figure-2 Standard CMOS Setup Menu

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

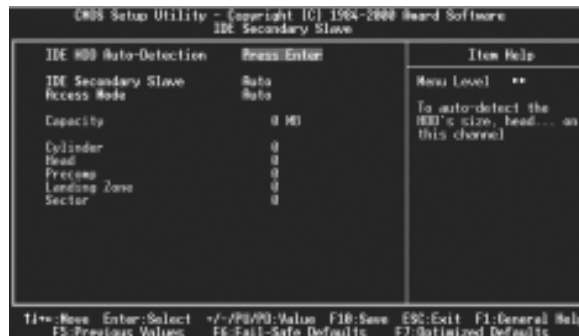


Figure-2-1 IDE Primary Master Setup Menu

Hard Disk

Primary Master/Primary Slave/Secondary Master/Secondary Slave

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

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



BIOS Description

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

CHS

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 CHS mode are 1024, 16 and 63.

If the user sets his HDD to CHS 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.

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 dividing 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.

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.



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. |

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 Diskette | The system boot will not stop for a disk 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 (or conventional) memory installed in the system. |
| Extended Memory | The BIOS determines how much extended memory is presented during the POST. |
| Total Memory | Total memory of the system |



Advanced BIOS Features Setup



Figure-3 BIOS Features Setup Menu

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

| <u>Item</u> | <u>Option</u> | <u>Description</u> |
|-----------------------------|-----------------|---|
| ● QDI BootEasy Feature | <i>Enabled</i> | PC boots in rapid speed, without any redundant waiting for the displaying of starting OS. |
| | <i>Disabled</i> | PC boots in the legacy BIOS way. |
| ● ChipAway Virus on Guard | <i>Enabled</i> | Allows you to choose the virus warning feature for IDE hard disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep. |
| | <i>Disabled</i> | Invalidates this function. |
| ● CPU Internal Cache | <i>Enabled</i> | Enables CPU internal cache. |
| | <i>Disabled</i> | Disables CPU internal cache. |
| ● External Cache | <i>Enabled</i> | Enables CPU external cache. |
| | <i>Disabled</i> | Disables CPU external cache. |
| ● CPU L2 Cache ECC Checking | <i>Enabled</i> | Enables CPU L2 Cache ECC function. |
| | <i>Disabled</i> | Disables CPU L2 Cache ECC function. |
| ● Processor Number Feature | <i>Enabled</i> | Processor Number can be readable. |
| | <i>Disabled</i> | Processor Number can be unreadable. |





| | | |
|---|---------------------|--|
| • Quick Power On Self Test | <i>Enabled</i> | Enable quick POST. BIOS will shorten or skip some check items during POST to speed up POST after you power on the computer. |
| | <i>Disabled</i> | Normal POST |
| • First (Second, Third) Boot Device | <i>Disabled</i> | Selects Your Boot Device Priority. It could be Disabled, Floppy, LS120, ZIP100, HDD-0, HDD-1, Floppy HDD-2, HDD-3, SCSI, CDROM, LAN, USB-FDD, USB-ZIP, USB-CDROM, USB-HDD. |
| | | |
| • Boot Other Device | <i>Enabled</i> | Boot other Device enabled. |
| | <i>Disabled</i> | Boot other Device disabled. |
| • Swap Floppy Drive | <i>Enabled</i> | Exchanges the assignment of A&B floppy drives. |
| | <i>Disabled</i> | The assignments of A&B floppy drives are normal. |
| • Boot Up Numlock Status | <i>On</i> | Keypad is used as number keys. |
| | <i>Off</i> | Keypad is used as arrow keys. |
| • Gate A20 Option | <i>Normal</i> | The A20 signal is controlled by the keyboard controller or chipset hardware. |
| | <i>Fast</i> | The A20 signal is controlled by Port92. |
| • Security Option | <i>System Setup</i> | Selects whether the password is required every time the system boots or only when you enter setup. |
| | | |
| • OS Select For DRAM>64MB | <i>Non-OS2</i> | If your operating system is not OS/2, please select this item. |
| | <i>OS2</i> | If system DRAM is more than 64MB and the operating system is OS/2, please select this item. |
| • HDD S.M.A.R.T Capability | <i>Enabled</i> | Enables S.M.A.R.T hard disk support. |
| | <i>Disabled</i> | Invalidates this function. |
| • Report NO FDD for WIN 95 | <i>Yes</i> | Report NO Floppy Disk Drive for WIN 95 to release IRQ6. |
| | <i>No</i> | Do not report No Floppy Disk Drive for WIN 95. |
| • Video BIOS Shadow | <i>Enabled</i> | Video BIOS will be copied to RAM. Video Shadow will increase the video speed. |
| | <i>Disabled</i> | Invalidates this function. |
| • C8000-CBFFF Shadow: DC000-DFFFF Shadow: | <i>Enabled</i> | Optional ROM will be copied to RAM by 16K bytes per unit. |
| | <i>Disabled</i> | Invalidates this function. |



BIOS Description

| | | |
|-------------------------|---------------------|---|
| • Delay For HDD (Secs): | 0~3 | Sets the pre-delay time for hard disk to be accessed by the system. |
| • Show Bootup Logo | Enabled Disabled | The logo will be shown when system boots up. The logo will not be shown when system boots up. |
| • Flash Write Protect | Enabled Disabled | This option is for protecting the system BIOS from being attacked by severe virus such as CIH. Disables you to upgrade the BIOS. Enables you to upgrade the BIOS. |



Advanced Chipset Features Setup



Figure-4 Advanced Chipset Features Setup Menu

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

| Item | Option | Description |
|----------------------------|--|--|
| • Close Empty DIMM/PCI Clk | <i>Enabled</i> <i>Disabled</i> | Closes empty DIMM or PCI clock to reduce EMI. Does not close empty DIMM or PCI clock. |
| • Display Device | <i>CRT+TV</i> <i>CRT</i> <i>TV</i> | Enable CRT and TV display together. Enable CRT display only. Enable TV display only. |
| • Bank 0/1 DRAM Timing | <i>SDRAM 8/10ns</i> <i>Normal/Medium</i> <i>Fast/Turbo</i> | These items are of selected DRAM read/write timing. Default setting is recommended. |
| • SDRAM Cycle Length | <i>2/3</i> <i>Auto</i> | Defines the CLT timing parameter of SDRAM expressed in 66MHz clocks. Latency Time = 2 clocks, Latency Time = 3 clocks |
| • DRAM Clock | <i>Host Clk</i> <i>Hclk-33M</i> | DRAM clock is same as host clock. DRAM clock is slower than host clock by 33MHz. |
| • Memory Hole | <i>15M~16M</i> <i>Disabled</i> | Memory Hole at 15-16M is reserved for expanded ISA card. Does not set this memory hole. |
| • P2C/C2P Concurrency | <i>Enabled</i> <i>Disabled</i> | Enables P2C/C2P concurrency. Disables P2C/C2P concurrency. |
| • Fast R-W Turn Around | <i>Enabled</i> <i>Disabled</i> | Enables Fast R-W Turn Around. Disables Fast R-W Turn Around. |



BIOS Description

| | | |
|---------------------------|-----------------|--|
| ● System BIOS Cacheable | <i>Enabled</i> | Besides conventional memory, system BIOS area is also cacheable. |
| | <i>Disabled</i> | System BIOS area is not cacheable. |
| ● Video RAM Cacheable | <i>Enabled</i> | Besides conventional memory, video RAM is also cacheable. |
| | <i>Disabled</i> | Video RAM area is not cacheable. |
| ● Frame Buffer Size | <i>2M-8M</i> | Sets share memory of onboard AGP. |
| ● AGP Aperture Size | <i>4-128M</i> | Sets the effective size of the Graphics Aperture to be used in the particular PAC Configuration. |
| ● Onchip USB | <i>Enabled</i> | Enables the onchip USB controller. |
| | <i>Disabled</i> | Disables the onchip USB controller. |
| ● USB Keyboard Support | <i>Enabled</i> | USB keyboard support is enabled. |
| | <i>Disabled</i> | USB keyboard support is disabled. |
| ● Onchip Sound | <i>Auto</i> | Enables AC97 function. |
| | <i>Disable</i> | Disables AC97 function. |
| ● CPU to PCI Write Buffer | <i>Enabled</i> | Enables CPU to PCI Write Buffer. |
| | <i>Disabled</i> | Disables CPU to PCI Write Buffer. |
| ● PCI Dynamic Bursting | <i>Enabled</i> | Enables PCI Dynamic Bursting. |
| | <i>Disabled</i> | Disables PCI Dynamic Bursting. |
| ● PCI Master 0 WS Write | <i>Enabled</i> | Enables PCI Master 0 WS Write. |
| | <i>Disabled</i> | Disables PCI Master0 WS Write. |
| ● PCI Delay Transaction | <i>Enabled</i> | Enables PCI Delay Transaction. |
| | <i>Disabled</i> | Disables PCI Delay Transaction. |
| ● PCI#2 Access #1 Retry | <i>Enabled</i> | Enables PCI#2 Access #1 Retry. |
| | <i>Disabled</i> | Disables PCI#2 Access #1 Retry. |
| ● AGP Master 1 WS Write | <i>Enabled</i> | Enables AGP Master 1 WS Write. |
| | <i>Disabled</i> | Disables AGP Master 1 WS Write. |
| ● AGP Master 1 WS Read | <i>Enabled</i> | Enables AGP Master 1 WS Read. |
| | <i>Disabled</i> | Disables AGP Master 1 WS Read. |

Power Management Setup

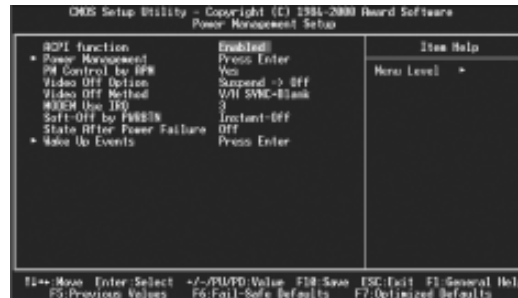


Figure-5 Power Management Setup Menu

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. |
| • HDD Power Down | <i>1Min~15Min</i> <i>Disable</i> | Defines the continuous HDD idle time before the HDD entering power saving mode (motor off). Invalidates this function. |
| • Doze Mode | <i>1Min~1Hour</i> <i>Disable</i> | Defines the continuous idle time before the system entering Doze mode. Invalidates this function. |
| • Suspend Mode | <i>1Min~1Hour</i> <i>Disable</i> | Defines the continuous idle time before the system entering suspend mode. Invalidates this function. |
| • PM Control by APM | <i>NO</i> <i>Yes</i> | 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 Option | <i>Suspend -> Off</i> <i>All Modes -> Off</i> <i>Always On</i> | Screen blanks after the system enters suspend mode. Screen blanks after the system enters all modes. Screen is always on. |



BIOS Description

| | | |
|-----------------------------|---------------------------|--|
| • Video Off Method | <i>Blank Screen</i> | The system BIOS will only blank off the screen when disabling video. |
| | <i>V / H SYNC + Blank</i> | In addition to Blank Screen, BIOS will also turn off the V-SYNC & H - SYNC signals from VGA cards to monitor. |
| | <i>DPMS Support</i> | This function is enabled only for the VGA card supporting DPMS. |
| • MODEM Use IRQ | <i>3,4,5,7,9,10,11</i> | Special Wake-up event for Modem. |
| | <i>NA</i> | This function is not applied. |
| • Soft-off by PWRBTN | <i>Instant-off</i> | The system will power off immediately once the power button is pressed. |
| | <i>Delay 4 Sec</i> | The system will not power off until the power button has been pressed continuously for more than 4 seconds. |
| • State After Power Failure | <i>Auto Off, On</i> | The system remains former state/Off/On when the AC power supply resumes. |
| • Wake Up Events | <i>Press Enter</i> | Sets the following items. |
| • VGA | <i>On</i> | VGA active reloads global timer. |
| | <i>Off</i> | VGA active has no influence to global timer. |
| • LPT&COM | <i>LPT, COM</i> | Sets the options of these items to reload global timer. |
| | <i>LPT/COM</i> | |
| | <i>None</i> | LPT&COM active has no influence to global timer. |
| • HDD&FDD | <i>On</i> | HDD&FDD active reloads global timer. |
| | <i>Off</i> | HDD&FDD active has no influence to global timer. |
| • PCI Master | <i>On</i> | PCI Master active reloads global timer. |
| | <i>Off</i> | PCI Master active has no influence to global timer. |
| • Power On by PCI Card | <i>Enabled</i> | Enables to wake up by PCI card. |
| | <i>Disabled</i> | Disables to wake up by PCI card. |
| • RTC Alarm Resume | <i>Enabled</i> | RTC alarm can be used to generate a wake event to power up the system which is in power-off status. You can set any date or any time to power up the system. |
| | <i>Disabled</i> | RTC has no alarm function. |



- | | | |
|----------------------------|-----------------------------------|--|
| • Date(of Month) | | Sets the date of RTC. |
| • Resume Time | | Sets the resume time of RTC. |
| • IRQs Activity Monitoring | <i>Press Enter</i> | Reloads global timer. |
| • Primary INTR | <i>On</i> <i>Off</i> | Allows wake-up from IRQ. Does not allow wake-up from IRQ. |
| • IRQ3~IRQ15 | <i>Enabled</i> <i>Disabled</i> | Enables IRQ"x" to wake up. Disables IRQ"x" to wake up. |



PNP/PCI Configurations Setup

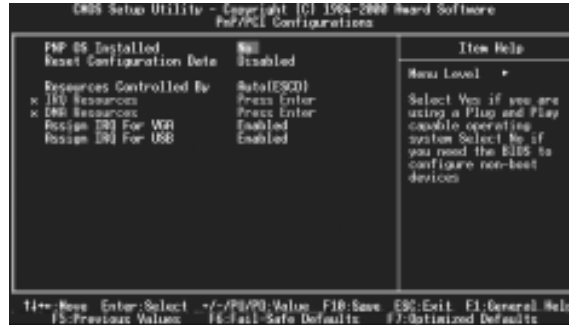


Figure-6 PNP/PCI Configurations Setup Menu

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

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

Integrated Peripherals



Figure-7 Integrated Peripherals Menu

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

| Item | Option | Description |
|---------------------------------------|-----------------------------------|--|
| • 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. |
| • 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. |
| • Primary/Secondary Master/Slave UDMA | <i>Auto</i> <i>Disable</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 anAGP card are installed together in the system, the one initialized first functions. Initializes the AGP first. |
| • IDE HDD Block Mode | <i>Enabled</i> <i>Disabled</i> | Allows IDE HDD to read/write several sectors once. IDE HDD only reads/writes a sector once. |
| • Onboard LAN | <i>Enabled</i> <i>Disabled</i> | Onboard LAN function is enabled. Onboard LAN function is disabled. |
| • Onboard FDD Controller | <i>Enabled</i> <i>Disabled</i> | Onboard floppy drive controller is enabled. Onboard floppy drive controller is disabled. |



BIOS Description

| | | |
|---------------------------|---|---|
| • Onboard Serial Port 1/2 | <p><i>3F8/IRQ4</i> <i>2F8/IRQ3</i> <i>3E8/IRQ4</i> <i>2E8/IRQ3</i> <i>Auto</i></p> <p><i>Disabled</i></p> | <p>Defines the onboard serial port address and required interrupt number.</p> <p>Onboard serial port address and IRQ are automatically assigned</p> <p>Onboard serial port is disabled.</p> |
| • UART 2 Mode | <p><i>Standard</i> <i>HPSIR</i> <i>ASKIR</i></p> | <p>Defines Serial Port 2 as standard serial port. Supports IrDA mode.</p> <p>Supports SHARP ASK-IR protocol with maximum baud rate up to 57600bps.</p> |
| • Onboard Parallel Port | <p><i>378/IRQ7</i> <i>278/IRQ5</i> <i>3BC/IRQ7</i> <i>Disabled</i></p> | <p>Defines onboard parallel port address and IRQ channel.</p> <p>Onboard parallel port is disabled.</p> |
| • Onboard Parallel Mode | <p><i>Normal</i> <i>EPP</i> <i>ECP/EPP</i> <i>ECP</i></p> | <p>Defines the parallel port mode as Standard Parallel Port (Normal), Enhanced Parallel Port (EPP), or Extended Capabilities Port (ECP).</p> |
| • ECP Mode Use DMA | <p>1, 3</p> | <p>Sets DMA for ECP mode use.</p> |
| • Parallel Port EPP Type | <p><i>EPP1.7</i> <i>EPP1.9</i></p> | <p>Sets parallel port EPP type.</p> |
| • Onboard Legacy Audio | <p><i>Enabled</i></p> <p><i>Disabled</i></p> | <p>Enables onboard legacy audio, the following item to be set.</p> <p>Disables onboard legacy audio.</p> |
| • Sound Blaster | <p><i>Enabled</i></p> <p><i>Disabled</i></p> | <p>Enables Sound Blaster.</p> <p>Disables Sound Blaster.</p> |
| • SB I/O Base Address | <p><i>220H/240H</i> <i>260H/280H</i></p> | <p>Defines SB I/O Base Address.</p> |
| • SB IRQ Select | <p><i>IRQ5~IRQ10</i></p> | <p>Selects SB IRQ .</p> |
| • SB DMA Select | <p><i>DMA0~DMA3</i></p> | <p>Selects SB DMA.</p> |
| • MPU-401 | <p><i>Enabled</i></p> <p><i>Disabled</i></p> | <p>Enables MPU-401</p> <p>Disables MPU-401</p> |
| • MPU-401 I/O Address | <p><i>300-303H~</i> <i>330-333H</i></p> | <p>Defines MPU-401 I/O address.</p> |
| • Game port (200-207H) | <p><i>Enabled</i></p> <p><i>Disabled</i></p> | <p>Enables game port.</p> <p>Disables game port.</p> |



PC Health Status



Figure-8 PC Health Status Menu

The following describes the meaning of each item.

| Item | Current Data Shown | Description |
|---|---|---|
| <ul style="list-style-type: none"> • CPU Warning Temperature | 50°C/122°F 53°C/127°F 56°C/133°F 60°C/140°F 63°C/145°F 66°C/151°F 70°C/158°F Disable | An alarm will beep when the CPU temperature reaches the previous setting, 50°C/122°F, 53°C/127°F, 56°C/133°F, 60°C/140°F, 63°C/145°F, 66°C/151°F, 70°C/158°F. No alarm beep. |
| <ul style="list-style-type: none"> • Current CPU/System Temp | | Temperature of the CPU/System. |
| <ul style="list-style-type: none"> • Current CHSFAN Speed | | Speed of fan(RPM:Revolution Per Minute) connected to the fan header CHSFAN. Fan speed value is based on an assumption that tachometer signal is two pulses per revolution. In other cases, you should regard it relatively. |



BIOS Description

- Vcore
2.5V
3.3V
5V
12V

Displays current Voltage values including all significant voltages of the mainboard. +3.3V, +12V and 5V are voltages from the ATX power supply. Vcore Voltage is the CPU core voltage from the onboard switching power supply.





Supervisor/ User Password

When this function is selected, the following message appears at the center of the screen to assist you in creating a password.

ENTER PASSWORD

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

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

PASSWORD DISABLED

If you have selected "**System**" in "Security Option" of "Advanced BIOS Features" 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**" in "Security Option" of "Advanced BIOS Features" 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.

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

QDI Utility CD

A QDI Utility CD is supplied with this mainboard, The contents contained in it are showed as below:

1. Driver Install

Using this choice, you can install all the drivers for your motherboard easily. You should install the drivers in order, and you need to restart your computer after all the drivers are installed.

- | | |
|---------------------|-----------------|
| A. Chipset Software | B. VGA Driver |
| C. Network Driver | D. Audio Driver |
| E. DirectX | |

2. Accessory

- | |
|--------------------------|
| A: Norton AntiVirus 2002 |
| B: QflashV1.0 |

3. Browse CD

You could read all the contents contained in this CD, including Utility and Documents. The files included in **Utility** are:

- | | | |
|-----------------|-----------|--------------|
| A. Awdflash.exe | B. Lf.exe | C. Cblog.exe |
|-----------------|-----------|--------------|

The files included in **Documents** are:

- | |
|---|
| A. Adobe Acrobat Reader V5.0 |
| B. J6A-french.doc, J6A-Spanish.doc etc. |

Norton AntiVirus

When you install Norton AntiVirus and accept options, your computer is safe. Norton AntiVirus automatically checks boot records for viruses at system startup, checks programs for viruses at the time you use them, scans all local hard drives for viruses once per week, and monitors your computer for any activity that might indicate the work of a virus in action. It also scans files you download from the internet and checks floppy disks for boot viruses when you use them. The list below shows the most important tasks Norton AntiVirus helps you perform: scan for viruses on your computer; remove viruses from your computer; update your virus protection with LiveUpdate; quarantine an infected file.

You can go to the Symantec Web site to view an online tutorial:

<http://www.symantec.com/techsupp/tutorial>



LogoEasy II



Thank you for using QDI upgraded innovation--- LogoEasy II, which is completely compatible with LOGOEASY. LOGOEASY II can be easily operated in a Windows environment, following in steps with the trend. It has added the functions of supporting JPEG images and true color display of 64K and 16M colors with regard to JPEG-format graphics files and the high-precision display equipment, which are now widely used.

LOGOEASY II supports the high-resolution 640x480 or 800x600 image display and full-screen, top right corner or bottom right corner display. It also supports simultaneous display of logo and sign-on message of the BIOS testing system. LOGOEASY II is a tool that can be operated in multi-platforms to refresh and change LOGO graphics including DOS, WINDOWS 9X, WINDOWS NT, WINDOWS ME and WINDOWS XP. In particular, the tools under the interface of WINDOWS are simple and easy to operate. It teaches you by taking your hand how to change LOGO.

| ITEM | | LogoEasy II | LogoEas |
|--|------------|-------------|---------|
| Colors | 16 colors | × | × |
| | 256 colors | ✓ | ✓ |
| | 16M colors | ✓ | × |
| Resolution | 640*480 | ✓ | ✓ |
| | 800*600 | ✓ | × |
| Display Self-Test msg at the same time | | ✓ | ✓ |
| Full Screen Logo | | ✓ | ✓ |
| Display logo on corners | | ✓ | ✓ |

✓ ----- Support x ----- Not Support

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

You can use “**LogoEasy II**” to replace it by any other logo which you want.

We provide two Utilities in the QDI Driver CD, which bring user the following two means to select:





A. Using CBLOGO.EXE Utility (Under DOS):

1. Copy "CBLOGO.EXE" and "AWDFLASH.EXE" from the directory \Utility located on QDI Driver CD to your hard disk.
2. Get the BIOS file from "AWDFLASH.EXE" or Download the BIOS file from the Website (<http://www.qdigrp.com>) and copy the BIOS file (xxxxxx.bin) to your hard disk.
3. Boot the system into DOS environment, Put your favor picture into BIOS file by "CBLOGO.EXE" command. For example: CBLOGO.EXE xxxxxx.bin myphoto.bmp
4. Flash the BIOS to motherboard by "AWDFLASH.EXE". For example: AWDFLASH xxxxxx.bin

B. Using QFlash (Under Windows):

1. Download the QFlash Utility from the Website (<http://www.qdigrp.com>) or get it from QDI Driver CD.
2. Run QFlash program step by step, following the directions until complete it .
3. Reboot the system, you can see the new picture displayed on the screen.

NOTE:

If you require more parameters information concerning "CBLOGO.EXE", please refer to the online help. If you don't prefer the logo displayed on the screen during bootup, set the "Show Bootup Logo" option as Disabled in CMOS Setup.

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

BIOS-ProtectEasy



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 closed, the BIOS can not be overwritten.
2. Set the jumper (JAV) as opened, meanwhile set "Flash Write Protect" as Enabled in CMOS Setup. In this way, the BIOS can not be overwritten, but the DMI information can be updated.



RecoveryEasy



Introduction:

RecoveryEasy, the latest QDI innovation, is able to protect the system from being destroyed, by creating a so-called “mirror partition” for a current hard disk partition and backing up all the data to the mirror area. This ideal utility provides disk partition, disk data backup/recovery, CMOS settings backup/recovery and multi-boot functions. RecoveryEasy is also able to prevent the system from being attacked by different kinds of boot virus or other severe virus such as CIH. In case the system is ruined either by mistake or virus, the system can be recovered from the mirror partition. It applies the build-in BIOS technology that does not occupy either the hard disk space or the system memory. It's the best choice for both corporations and PC users.

Operation Process:

There are two hotkeys – Ctrl+Bksp and F12 for RecoveryEasy to enter “Partition” and “Recovery” user interfaces accordingly during BIOS booting up. If two or more hard disks are installed, use F5 key to choose the hard disk.

1. Partition Interface (see figure-1)

Users can create and delete partitions/mirror partitions, activate partitions, and uninstall RecoveryEasy in Partition User Interface.

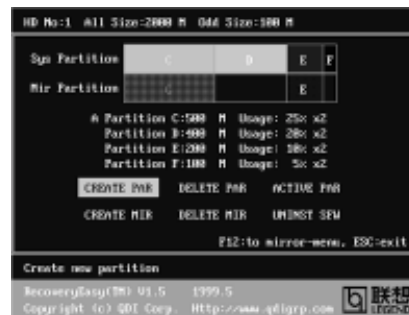


figure-1 Partition Interface

1.0 Install RecoveryEasy for the first time

- a. The utility checks the previous disk partition at first, and displays the status of the first four partitions. If there are more than four disk partitions, users will be asked to delete the redundant disk partitions, since only four partitions that can be activated are allowed to exist. However, if there're only four or fewer partitions, users can follow the system prompt and choose to install RecoveryEasy based on the previous disk partitions. In this way, the original extension partitions will be changed to normal ones, and probably the sequence of the partitions will be changed also, but the contents contained in each partition will remain the same.



- b. If choosing to install RecoveryEasy on an absolutely clear disk, the utility will delete all the previous partitions.
- c. The password is set as default setting “qdiqdi” after installing RecoveryEasy.

1.1 CREATE PAR

Function : Creates a new partition.

Limitation : When no disk space remains or 4 partitions already exist, this button is disabled.

Steps : After pressing the “CREATE PAR” button.

- a. The system will prompt whether users want to create a mirror partition for it or not.
- b. If answering “Y”, input the new partition size in Megabyte. Notice that the maximum partition size that can be assigned is half of the left disk space, which is also displayed in the status line. Another half is for the mirror partition. If answering “N”, the whole disk space left can be assigned. See figure-2.

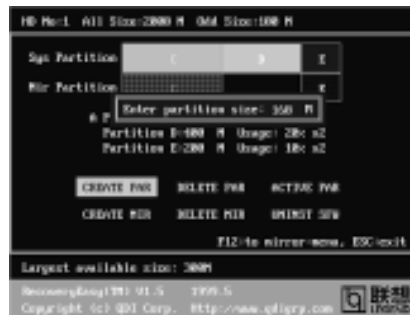


figure-2 Create Partition

Note:

- a. The system will prompt “Insert system floppy, then reset” when the first partition on the first hard disk is created.
- b. After using DOS6.xx boot disk to format C partition, the system should be reset in order to access the partition.
- c. In Windows system 1,048,576 bytes equal 1 Megabyte, while in RecoveryEasy 1,000,000 bytes equal 1 Megabyte, therefore a smaller size will be displayed in Windows system compared with the size displayed in RecoveryEasy.

1.2 DELETE PAR

Function : Deletes the last partition and its mirror partition.

Limitation : When no partition exists, this button is disabled.

Steps : After choosing this function, only the final partition can be deleted in order to keep the continuous disk space. If the warning message is confirmed, the partition will be deleted. By pressing “N” or “ESC” key, the system quits.





1.3 ACTIVE PAR

Function : Implements multi-boot function by activating one of the partitions.

Limitation : When no partition exists, this button is disabled.

Steps : If there're two or more partitions, choose one of them by pressing F5 key.

Note : After setting active partition, a letter "A" will be shown in front of this partition.

1.4 CREATE MIR

Function : Adds mirror partition for the disk partition that has no mirror.

Limitation : This function should be performed by order, for example, from partition 1 to 4. If no disk space remains or the last partition has its mirror partition already, this button is disabled.

Steps : After pressing the "CREATE MIR" button, use F5 key to choose the partiti to create mirror. The partition of which the size is bigger than the left disk space will be ignored.

1.5 DELETE MIR

Function : Deletes the mirror partition.

Limitation : If there is no mirror partition, this button is disabled. This function should be performed in reverse order, for example, from partition 4 to 1.

Steps : After pressing the "DELETE MIR" button, only the final mirror partition can be deleted in order to keep the continuous disk space. If the warning message is confirmed, the mirror partition will be deleted. By pressing "N" or "ESC" key, the system quits.

1.6 UNINST SFW

Function : Uninstall RecoveryEasy.

Limitation : None.

Steps : After pressing the "UNINST SFW" button and the warning message is confirmed, RecoveryEasy will be uninstalled. By answering "N", the system quits.

Note : After RecoveryEasy is uninstalled, all the mirror areas have been disconnected with the relate partitions. If no partition is deleted or changed in size, or no other partition is created, users have chance to "Recover existing RecoveryEasy settings" when next time entering RecoveryEasy partition interface, meanwhile the password will be set as default setting "qdiqdi".

1.7 OTHERS

F12 : Switches to Recovery User Interface.

ESC : Exits from the Partition User Interface. If users made some mistakes, for example, wrongly delete a partition, do not press the "ESC" key, press the reset button on your system at once, in this way users can save their system.



F5:

- When two or more than two hard disks are installed on the system, use F5 key to choose the hard disk. Every time users use F5 key to switch the hard disk, the operation result for the previous hard disk is saved. When processing a certain hard disk, F5 key can be used to choose the partition.
- In addition, when two or more than two hard disks are installed, the sign of partitions will be changed from C, D, E, F to 1, 2, 3, 4 accordingly.

2. Recovery Interface (see figure-3)

Users can backup the partition to its mirror area, and recover the partition from its mirror area from Recovery User Interface. This interface also provides users with CMOS settings backup or recovery, and changing password functions.

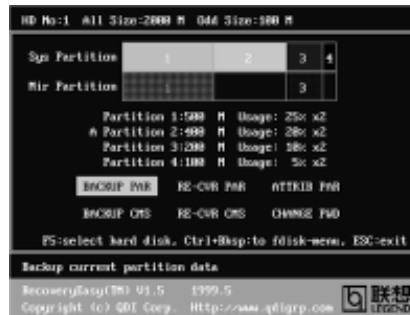


figure-3 Recovery User Interface

2.1 BACKUP PAR

Function : Backups the content of the partition to its mirror area.

Limitation : If no mirror partition exists, this button is disabled.

Steps :

- Use F5 key to choose the partition with mirror area existed.
- If the partition chosen has been backedup before, a warning message will be shown, and the time when last backup was done will be displayed in the status line. After confirming the warning message, the system performs the backup. By pressing "N" or "ESC" key, the system quits.

2.2 RE-CVR PAR

Function : Recovers the content from the mirror area to the relate partition.

Limitation : If users didn't backup any partitions before, this button is disabled.

Steps:

- Use F5 key to choose the backedup partition.
- The time when the latest backup was done will be displayed in the status line. After confirming the warning message, the system performs the content recovery. By pressing "N" or "ESC" key, the system quits.

**Note:**

- a. During the process of partition backup or recovery, a gauge will be shown as below, the backup or recovery speed is about 4-5Mbyte/s. See figure-4.



figure-4 Backup Partition

- b. If a disk I/O error occurs during the process of partition backup or recovery, this means there's physical damage on the hard disk, however users can ignore it and continue the process.

2.3 ATTRIB PAR

Function : Allows users to modify the properties of the partition (eg. FAT16 -> FAT32) after entering OS.

Limitation : None.

Steps : After pressing this button, turn on/off the switch.

Note:

- a. The switch resets to the default setting "disable" every time the system reboots.
 b. In order to implement this function, users need to enable the switch when installing the OS or modifying the partition properties. Please note: Do not create or delete partitions or change the partition size when modifying the partition properties.

2.4 BACKUP CMS

Function : Backups all CMOS settings.

Limitation : None.

Steps : After choosing this function, the current CMOS settings will be saved.

2.5 RE-CVR CMS

Function : Recovers all CMOS settings.

Limitation : None.

Steps : After choosing this function, the latest backup of the CMOS settings will be recovered. The system needs reboot in order to validate the new CMOS settings.

Note : If users have never backedup the CMOS settings, a wrong message will be shown after choosing this function.



2.6 CHANGE PWD

Function : Changes the password to enter RecoveryEasy Partition or Recovery User Interface.

Limitation : None.

Steps : Follow the system prompt, input the password no more than 6 characters twice. To delete the password, follow the system prompt and press the "Enter" key twice.

Note:

- a. The password should be no more than 6 characters, only digital and alphabetic letters are valid.
- b. Once the password is enabled, users will be asked to input the password every time they try to enter the RecoveryEasy user interfaces, and up to 3 times try is permitted.

2.7 Others

Ctrl+Bksp : Switches to Partition User Interface.

ESC : Exits from the Partition User Interface.

F5 : When two or more than two hard disks are installed on the system, use F5 key to choose the hard disk. When processing a certain hard disk, F5 key can be used to choose the partition.

FAQ:

1. What does RecoveryEasy do?

RecoveryEasy creates a so-called "mirror partition" with same size for the hard disk partition on the same hard disk, and then completely backups all the data sector by sector to the mirror area. This mirror partition is reserved to OS. When the OS ruins either by mistakes or virus, users can recover the partition from its mirror.

2. Does RecoveryEasy occupy the system resources?

Although some hard disk data protection applications can automatically protect the disk data in runtime, it lowers the system performance. Unlike these applications RecoveryEasy need users to backup or restore data manually when needed, but it DOES NOT lower the system performance when the system is running. It does not occupy either hard disk space or system memory, additional floppy disk or ISA/PCI cards are unnecessary.

3. RecoveryEasy utilizes Build-in BIOS skill, what is build-in BIOS?

RecoveryEasy build-in BIOS means all functions of RecoveryEasy including creating partition, backuping and restoring partition are built in BIOS. Users just need to down load the latest BIOS from our Website (<http://www.qdigrp.com>) when wanting to upgrade (It's free!).

4. Are there any hard disk limitations of RecoveryEasy?

RecoveryEasy supports all kinds of current IDE hard disks and has no limitation on the hard disk capacity. RecoveryEasy can not provide its function for some special hard disk types such as SCSI, but it will not affect their usage.



5. Are there any OS limitations of RecoveryEasy?

RecoveryEasy supports current operating systems such as DOS, Windows 95/98. However in Windows NT, Windows 2000, Unix and OS2 systems, users should notice that the disk tools bundled in the OS could change the mirror partition. On the other hand, since users can create partition with RecoveryEasy, it is unnecessary to use other disk tools.

6. Why does the remainder size plus partitions size not match the total size shown in RecoveryEasy sometimes?

When the location of partitions is not continuous, the above problem exists.

7. Are there any other disk partition tools that can modify the partition table made by RecoveryEasy?

RecoveryEasy provides a write-protect function, so the disk tools such as Fdisk, Partition Magic, BootMenu, SmartDisk and BootStar can not modify the partition table created by RecoveryEasy. Some of the applications even terminate during operation. However the disk tools bundled in the OS such as Windows NT, Windows 2000, Unix and OS2 could change the mirror partition.

8. Why does it happen that a prompt "*installation can not continue*" pops up when installing Windows98 or a yellow exclamation mark shown beside IDE device in system properties?

During Windows 98 installation, the installation program will write to MBR (Master Boot Record) which is protected by RecoveryEasy, therefore the installation will be terminated. To avoid this problem, a "ATTRIB PAR" button is provided in Recovery User Interface. Enable this switch before installing Windows 98, then the installation will be successfully completed. In order to remove the yellow question mark before IDE devices in Device Manager, enable this switch once more after system reboot.

9. Why does the converting of FAT16->FAT32 in PQ Magic go wrong?

MBR will be accessed when converting FAT16 to FAT32 with PQ Magic, which is protected by RecoveryEasy, therefore the conversion will be invalidate. Enabling the "ATTRIB PAR" switch from Recovery User Interface before converting can avoid this problem. It's the same situation as "FAT32 Converter" provided in Windows 98.

10. What if partitions be wrongly deleted in RecoveryEasy?

If users delete a partition in RecoveryEasy by mistake, they can save it by pressing the Reset button on their system at once. Do not press the "ESC" key to quit RecoveryEasy, this will save the change. Do not try to create the partition again, since creating partition will clear all the content of the partition.



11. What is multi-boot?

RecoveryEasy can implement the multi-boot function by activating different partition. For example on the hard disk, partition C contains DOS, partition D contains Windows 95 version, partition E contains Windows 98 version, when activating partition C in RecoveryEasy, the system enters DOS, when activating partition E, the system enters Windows 98 version. At the same time, the sequence of the partitions is adjusted accordingly, partition E becomes C:, partition C becomes D: and partition D becomes E:. This function is the same as that of fdisk.exe, but the system needs reboot in order to make the change validate for fdisk.exe.

12. What if computer accidentally power off when backuping (recovering)?

The partition should be completely backuped or recovered. If the computer accidently powers off, the partition should be backuped or recovered once again.

13. What if users lose the password?

To make sure the security, the password is saved in the hard disk. **It's very important for users to remember the password.** If forgetting the password, contact us, clearing CMOS is useless.

14. Does RecoveryEasy protect hard disk against CIH?

RecoveryEasy can strongly protect the hard disk from boot-virus, as well as the attack of CIH. If the system is attacked by CIH, RecoveryEasy will automatically recover the MBR and each partition boot record before system boots up, and try to recover the FAT. In this way the system can basically boot up, then users can use some anti-virus application to kill the virus. However this depends on how CIH virus affects the system. CIH normally outbreaks on 26th every month, if the system can not boot up that day, power off the computer instantly, and use the second safe way to recover the system, that is, recover the partition from its mirror area from Recovery User Interface. Remember to create a mirror partition and backup before virus attacks the system.



BootEasy



BootEasy technology enormously improves the long BOOT process time of computers. Reducing the wait time every user has to suffer when starting their computer. BIOS without BootEasy has to perform many routines every time when the system starts, such as checking system core of the computer and initializing system peripherals. Now with the BootEasy, BIOS will not run these repetitive Processes any longer, PC can boot-up without any redundant waiting for the displaying of starting OS. BootEasy is quite easy to use, choose the right option in CMOS SETUP, (refer to QDI Innovation features) it can be easily booted quickly. BootEasy save all the information when PC first normally boot-up, and it restores all the parameters for the system and thus let the PC boot freely and rapidly.



Note:

1. Under the following conditions, PC will boot-up in normal way.
 - (1) PC boot-up for the first times after set option as Enabled.
 - (2) the system information saved by BIOS was damaged.
 - (3) PC fail to boot-up continually over three times.

Setting the jumper JAV as open if you encounter the above conditions.

2. Don't power off or reset system while BootEasy initializing.
3. set "QDI BootEasy Feature" as "Disabled" before you replace system equipment.
set "QDI BootEasy Feature" as "Enabled" after you accomplished replacing.



QDI BootEasy(German)

BootEasy ist eine Neuentwicklung von QDI, die neue Innovation der QDI Easy – Technologien.



BootEasy Setup Menu

Mit der BootEasy- Technologie Technik wird der Bootvorgang nur noch vier bis fünf Sekunden in Anspruch nehmen, bis das Betriebssystem geladen wird. Der Grund für die lange Wartezeit liegt in den Routine-Abfragen, die das BIOS bei jedem Start abarbeitet. So wird beispielsweise jedes Mal die Taktfrequenz des Prozessors geprüft oder angeschlossene Geräte aktiviert.

Die BootEasy-Technik prüft diese Punkte nur beim erstmaligen Start des Rechners und speichert die Ergebnisse in einem Flash ROM. Beim nächsten Start ruft das System lediglich diese Informationen aus dem Speicher ab und kann so innerhalb von wenigen Sekunden den Boot-Prozess abschließen.

Bei Änderungen am System, beispielsweise nach dem Einbau eines neuen Prozessors, muss deshalb zuvor die BootEasy-Funktion deaktiviert werden, beim nächsten Start werden die neuen Informationen dann erneut abgespeichert.

Falls Fehler im Flash ROM den Bootvorgang behindern, versucht das System drei Mal den Rechner hochzufahren, bei Misserfolg schaltet es auf die althergebrachte Art zu booten um, das heißt, es dauert wieder ebenso lang wie früher. Anschließend kann die BootEasy – Technik wieder aktiviert werden.

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Instalación de la placa base QDI J6A(Spanish):

1. Asegúrese que se incluyen los siguientes artículos: Placa base QDI J6A, 1 cable de datos para el puerto IDE y 1 cable de datos para el Floppy, jumpers, 1 manual de usuario QDI J6Ay un disco compacto con los controladores de la placa base QDI J6A.
2. Asegúrese de que el cable de la fuente de alimentación esta desconectado y asegúrese de estar en contacto a masa utilizando una pulsera antiestática. Si no dispone de dicha pulsera, toque un objeto directamente conectado a masa o una parte metálica de su equipo como puede ser la caja de este.
3. Fije la placa base en la caja de su equipo con los tornillos especiales que acompañan a su caja.
4. Los jumpers están localizados en la placa base, con ellos se configuran, por ejemplo: Clear CMOS JCC, Habilitar BIOS ProtectEasy JAV etc. ..., el PIN1 para todos los jumpers esta marcado con una línea más gruesa (Consulte el apartado "Jumper Settings" en el manual de usuario de su placa QDI J6A en el capítulo 2).
5. Inserte el procesador en el socket y conecte el ventilador del procesador en el conector de su placa base QDI J6A marcado como "CPUFAN".
6. Inserte los módulos de memoria en los bancos de memoria DIMM de su placa base QDI J6A.
7. Inserte las tarjetas PCI y/o la tarjeta CNR y AGP en las bahías de expansión de su placa base QDI J6A.
8. Conecte los periféricos internos IDE y las disqueteras mediante los cables de datos específicos a su placa base QDI J6A. Asegúrese que la orientación de los cables sea la correcta. (El cable rojo se corresponde con el pin 1).
9. Conecte los cables de la caja del ordenador a su placa base QDI J6A, como el conector de la fuente de alimentación, los testigos de corriente, y lectura de disco duro, interruptores de inicio y reset (consulte el apartado "External Connectors" del manual de usuario de su placa base QDI J6A).
10. Cuando haya finalizado de realizar todas las conexiones, conecte el cable de alimentación a la fuente de alimentación y encienda su PC:
11. Conecte los diferentes periféricos externos como el teclado PS/2, ratón PS/2, serie o USB, los dispositivos USB, el monitor y la impresora a la placa base QDI J6A (consulte el apartado "External Connectors" en el manual de su placa base QDI J6A, en el capítulo 2).



Instalación del sistema:

1. Encienda su equipo mediante el interruptor de encendido de la caja.
2. Presione la tecla « Supr » para entrar en el menú de configuración de la BIOS.
3. Seleccione los valores de la Bios en concordancia con la configuración de su sistema (Nosotros le recomendamos que deje los valores establecidos por la Bios por defecto, para evitar posibles fallos que ocasionen que su sistema no funcione correctamente). Para más información las funciones de la Bios, consulte el apartado “BIOS Description” en el manual de usuario de la placa base QDI J6A). Presione la tecla « F10 » y seleccione la opción “Save & Exit Setup” en el menú de configuración de la Bios para guardar los cambios y reiniciar el sistema.
4. Instale el sistema operativo en el disco duro, no se olvide de seleccionar la secuencia de inicio correcta para que el sistema operativo pueda iniciarse.
5. Después de la instalación del sistema operativo, asegúrese que no hay conflictos con ningún dispositivo de su sistema.
6. Entonces, después del último paso, proceda a la instalación de los controladores de los diferentes dispositivos.

Un disco compacto con controladores de QDI esta incluido en el paquete de la placa base QDI J6A.

1. Instalación de los controladores

Usted puede instalar todos los controladores para su placa base facilmente. Tiene que instalar los controladores en el siguiente orden para un correcto funcionamiento del sistema, y es necesario reiniciar el equipo antes de finalizar la instalación de los controladores.

- | | |
|---------------------|-------------------|
| A. Chipset software | B. VGA Driver |
| C. Audio Driver | D. Network Driver |
| E. DirectX | |

2. Accesorios

- | | |
|----------------|-------------------------|
| A. QFlash V1.0 | B. Norton AntiVirus2002 |
|----------------|-------------------------|

3. Navegue por el CD

Usted puede leer todos los documentos incluidos en este CD, incluidos Utility and Documents.



Los ficheros incluidos en **Utility** son:

- A. Awdfash.exe
- B. Cblog.exe
- C. Lf.exe

Los ficheros incluidos en **Documents** son:

- A. Adobe Acrobat Reader V5.0
- B. J6A-French.doc, J6A-Spanish.doc etc.





Manuel d'installation des cartes mères de la série QDI J6A (French):

Intégration du système :

1. Vérifier la présence de chaque élément dans la boîte de la carte mère de la série QDI J6A :
 - Une carte mère de la série QDI J6A.
 - Un CD-ROM d'installation QDI.
 - Un manuel d'utilisation de la carte mère QDI J6A.
 - Un sachet de cavaliers.
 - Une nappe IDE compatible avec la norme ATA/66 destinée au lecteur de disque dur.
 - Une nappe destinée au lecteur de disquette.
 - Un fond de panier métallique destiné à l'unité centrale de l'ordinateur (Caractéristique technique optionnelle).
 - Un câble d'extension destiné à permettre l'exploitation des ports USB 3 et USB 4 ou USB 5 et USB 6 (Caractéristique technique optionnelle).
2. Vérifier que le câble électrique relié au boîtier d'alimentation de l'unité centrale de l'ordinateur est déconnecté. Se relier à la terre grâce à un bracelet lié au poignet. A défaut de disposer d'un bracelet, maintenir un contact physique avec un objet lui-même relié à la terre, ou à une partie métallique du système comme la structure de l'unité centrale de l'ordinateur.
3. Fixer la carte mère dans l'unité centrale de l'ordinateur grâce aux vis fournies avec cette dernière lors de son achat.
4. S'assurer que la carte mère de la série QDI J6A est matériellement correctement configurée, pour cela vérifier que les cavaliers insérés sur les broches intégrées de cette dernière sont correctement positionnés. Dans ce but il est important de se référer à la section nommée « Configuration des cavaliers » du chapitre numéro 2 nommé « Instructions d'installation » contenu dans le manuel d'utilisation livré avec la carte mère de la série QDI J6A lors de son achat.



5. Connecter le processeur dans le socket intégré à la carte mère de la série QDI J6A et prévus à cet effet. Fixer le système de refroidissement de ce dernier et connecter son ventilateur sur les broches nommées « CPUFAN » intégrées à la carte mère de la série QDI J6A et prévus à cet effet.
6. Connecter les éventuelles barrettes de mémoire dans les slots intégrés à la carte mère de la série QDI J6A et prévus à cet effet.
7. Connecter les éventuelles cartes d'extension au format AGP, CNR ou PCI dans les slots intégrés à la carte mère de la série QDI J6A et prévus à cet effet.
8. Connecter les éventuels périphériques IDE ainsi que le lecteur de disquette à la carte mère de la série QDI J6A grâce aux nappes fournies avec cette dernière lors de son achat. S'assurer que l'orientation des nappes connectées est correcte en vérifiant que le liseré rouge de ces dernières correspond à l'emplacement de la broche numéro 1 du connecteur.
9. Connecter les câbles de l'unité centrale de l'ordinateur sur les broches intégrées à la carte mère de la série QDI J6A et prévues à cet effet. Dans ce but il est important de se référer à la section nommée « Connecteurs externes » du chapitre numéro 2 nommé « Instructions d'installation » contenu dans le manuel d'utilisation livré avec la carte mère de la série QDI J6A lors de son achat.
10. Raccorder les périphériques externes sur les connecteurs de fond de panier intégrés à la carte mère de la série QDI J6A. Dans ce but il est important de se référer à la section nommée « Connecteurs externes » du chapitre numéro 2 nommé « Instructions d'installation » contenu dans le manuel d'utilisation livré avec la carte mère de la série QDI J6A lors de son achat.
11. Lorsque tous les éléments du système sont correctement intégrés, il est possible de reconnecter le câble électrique au boîtier d'alimentation de l'unité centrale de l'ordinateur.



Installation du système :

1. Démarrer le système en pressant l'interrupteur de fonctionnement de l'unité centrale de l'ordinateur.
2. Presser la touche "Suppr" du clavier afin d'entrer dans le menu de BIOS.
3. Dans le menu de BIOS nommé "QDI Innovation features", ajuster la fréquence de fonctionnement du processeur. Attention, il est fortement recommandé de charger les réglages de sûreté par défaut afin d'éviter un éventuel dysfonctionnement du système. Dans ce but il est important de se référer à la section nommée « Description du BIOS Award » du chapitre numéro 3 nommé « Description du BIOS » contenu dans le manuel d'utilisation livré avec la carte mère de la série QDI J6A lors de son achat.
4. Procéder à l'installation du système d'exploitation sur le lecteur de disque dur intégré au système. Dans ce but il est important de vérifier que la séquence de démarrage du système paramétrable à partir du menu de BIOS permet à la procédure d'installation du système d'exploitation de s'initialiser.
5. Une fois l'installation du système d'exploitation achevée, vérifier qu'il ne subsiste aucun conflit ou périphérique inconnu au sein du système.
6. Après cette étape, procéder à l'installation des pilotes de chaque périphérique détecté par la carte mère de la série QDI J6A.

Lors de son achat un CD-ROM d'installation QDI est livré avec la carte mère de la série QDI J6A.

1. Driver Install :

Avec cette option, il est possible d'installer les pilotes de la carte mère de la série QDI J6A aisément. Il est important d'installer les pilotes en respectant l'ordre prédéfini et de redémarrer le système après avoir effectué l'installation de tous les pilotes.

Applications contenues dans le dossier :

- | | |
|----------------------|-------------------|
| A. Chipset software. | B. VGA Driver |
| C. Audio Driver | D. Network Driver |
| E. DirectX | |



2. Accessory :

Applications contenues dans le dossier :

- A. QflashV1.0.
- B. Norton AntiVirus 2002.

3. Browse CD :

Avec cette option, il est possible de consulter l'ensemble des données contenues sur le CD-ROM d'installation QDI

Applications contenues dans le dossier :

- A. Awdflash.exe.
- B. Cblog.exe.
- C. Lf.exe.





QDI J6A installazione mainboard (Italian):

1. Assicurarsi che la scatola sia completa: QDI J6A mainboard, cavo IDE e Floppy, jumpers, manuale dell'utente della mainboard QDI J6A e cd-rom drivers.
2. Controllare che il cavo alimentazione proveniente dal computer-case sia sconnesso assicurarsi inoltre di aver indossato correttamente il bracciale da polso collegato a massa. In mancanza di questo toccare un punto a massa o una parte metallica del case
3. Fissare la mainboard nel case con le speciali viti fornite con il computer-case
4. I jumper locati sulla mainboard rappresentano: JCC azzeratore BIOS , JAV abilitatore/disabilitatore in BIOS della funzione **protectEasy**; per tutti i jumper il PIN 1 e' contrassegnato da una spessa linea bianca (consultare il manuale al capitolo 2 " JUMPER AND SETTINGS")
5. Inserire il processore nell'apposito slot ; la ventola del processore deve essere collegato nello speciale connettore targato " CPUFAN ".
6. Inserire il modulo/i di memoria nell'apposito memory slots
7. Inserire le periferiche Pci negli appositi Pci slots
8. Collegare le periferiche IDE e il FLOPPY con l'apposito cavo fornito con la mainboard negli specifici connettori marcati. Assicurarsi che l'orientamento del cavo sia corretto. (La linea rossa sul cavo deve essere inserita nell'apposito connettore in corrispondenza del pin 1)
9. Connettere la mainboard con: il cavo di alimentazione proveniente dall'alimentatore, il connettore dell'interruttore di stand by, il connettore del led di segnalazione "acceso", il connettore led di funzionalita' HARD DISK, il connettore dello speaker interno al CASE.....(consultare il manuale capitolo 2. " EXTERNAL CONNECTORS ". Dopo chiudere il CASE)
10. Connettere le differenti periferiche esterne come il PS/2 mouse, la PS/2 tastiera, le prese USB, il monitor e la stampante con gli specifici connettori posizionati sulla faccia esterna della mainboard.
11. Quando la vostra configurazione sara' tutta connessa, aggangiare il cavo di alimentazione



Installazione di sistema

1. Portare in posizione di accesso l'interuttore di ACCESO
2. Usare il tasto DEL per entrare nel software di configurazione del BIOS
3. Regolare le funzioni del BIOS in accordo con la configurazione di sistema (Noi ti raccomandiamo di usare l'impostazione di default per evitare rischi di anomalie di funzionalità). Per maggiori informazioni controllare il capitolo 3, sezione "BIOS DESCRIPTION". Premere F10 sulla tastiera o scegliere "SAVE and EXIT" dal menu di BIOS per salvare le impostazioni scelte ed uscire dal BIOS program.
4. Installare il sistema operativo, non dimenticando di mettere nelle giuste condizioni di partenza la sequenza di boot.
5. Dopo una giusta installazione accertarsi che non vi siano conflitti tra le periferiche in uso
6. Dopo questo ultimo passo procedere all'installazione dei driver delle varie periferiche

IL CD CONTENENTE I DRIVER DELLA VOSTRA MAINBOARD QDI E' CONTENUTO NELLA SCATOLA

1. Installazione driver

E' possibile installare tutti i driver della Vs. mainboard in modo facile e veloce. Dovreste installare i driver nella seguente successione, finito cio' bisogna far ripartire il personal computer.

- | | |
|-------------------------|-------------------|
| A. Chipset software | B. VGA Driver |
| C. Audio Driver | D. Network Driver |
| E. DirectX | |
| A. QflashV1.0 | |
| B. Norton AntiVirus2002 | |

Guardando il CD

Questo manuale di installazione e' disponibile anche nella sua versione elettronica all'interno del cd accompagnativo, insieme anche diverse utili quali:

- | | |
|----------------|--------------|
| A. Awdfash.exe | B. Cblog.exe |
| C. Lf.exe | |



Mainboard Layout



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

