

Declaration of conformity



QUANTUM DESIGNS(HK) LTD.
5/F Somerset House, TaiKoo Place 979 Kings Road,
Quarry Bay, Hong Kong

declares that the product

Pentium®II Motherboard
P6I440BX/B2

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

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QDI COMPUTER HANDELS GMBH

QDI COMPUTER (SWEDEN) AB

Signature :  . Place / Date : HONG KONG/1998

Printed Name : Anders Cheung Position/ Title : President

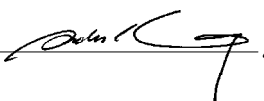
Declaration of conformity



Trade Name:	QDI Computer (U. S . A.) Inc.
Model Name:	P6I440BX/B2
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Equipment Classification:	FCC Class B Subassembly
Type of Product:	AGP Pentium®II Motherboard
Manufacturer:	Quantum Designs (HK) Inc.
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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.

Signature : . Date : 1999



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Chapter 1

Introduction

Overview

P6I440BX/B2 mainboard, using the latest QDI innovation —Twin Magic technology, provides users with high performance and cost-effective platform for both workstations and servers. By using QDI Twin Magic CPU card, the single slot1 mainboard turns to support dual Intel®Celeron™PPGA 370 processors, therefore provides high performance system at an extremely low price, especially for the multi-task operating system such as Windows NT or Windows 2000. It also supports all Intel®Pentium®II/Pentium®III and Slot 1 Celeron™ processors. Both 66MHz and 100MHz SDRAMs are supported. It provides advanced features such as Wake-up On LAN, Wake-up On internal/external Modem and Keyboard Password Power-on functions. 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.

Key Features

Form factor

- ATX form factor of 305mm x 193mm.

Microprocessor

- Supports dual Intel® Celeron™ PPGA processors at 266/300/333/366/400/433/500MHz with 66MHz FSB(front side bus) and future processors with 100MHz FSB speed by using QDI twin Magic Card
- Supports all Intel Pentium®II processors at 233/266/300/333MHz with 66MHz FSB and 350/400/450/500/550/600MHz with 100MHz FSB.
- Supports all Intel Pentium®III processors at 450/500/550MHz with 100MHz FSB
- Supports all Intel®Celeron™ processors(Slot 1) at 266/300/333/366/400/433/466 MHz with 66MHz FSB.
- Supports 66/100MHz front side bus.
- CPU core frequency = Bus speed x2.5, x3, x3.5, x4, x4.5, x5, x5.5, x6, x6.5, x7, 7.5, x8.
- CPU core supply voltage adjustable from 1.3V to 3.5V through on- board switching voltage regulator with VID(Voltage ID).

Chipset

- Intel® 440BX AGPset: 82443BX, 82371EB (PIIX4E)

**System memory**

- Provides three 168 pin 3.3V unbuffered DIMM sockets.
- Supports both 66MHz/100MHz SDRAMs with SPD and 66MHz EDO DIMMs.
- 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/33" Synchronous DMA mode transferring up to 33 Mbytes/sec. Compatible with Ultra DMA/66 HDD.
- 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

- 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 external modem ring power-on.
- Supports wake-up on LAN and wake-up on internal modem.
- Supports auto fan off when the system enters suspend mode.
- On-board LM80 supports system monitoring (monitors system temperature, voltages, chassis intrusion and fan speed) (manufacturing option).



- Provides management application such as ManageEasy.
- Supports keyboard password power-on function.
- System status resumes after AC power failure.
- 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 BIOS with 2MB 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

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



Performance List

The following performance data list is the testing results of authoritative ServerBench testing program.

These data are just referred by users, and there is no responsibility for different testing data values gotten by users. (The different Hardware & Software configuration will result in different ServerBench testing results.)

Hardware & Software configuration:

- Mainboard QDI P6I440BX/B2 with QDI Twin Magic CPU card
- CPU
 1. Dual Intel® Celeron™ PPGA 370 466MHz processor
 2. Single Intel® Celeron™ PPGA 370 466MHz processor
 3. Single Intel Pentium® III 550MHz processor
- DIMM 128MPC100DIMM
- SCSI Card Adaptec AHA-2940UW
- LAN Intel Etherexpress PRO adapter
- SCSI HD Quantum ATLAS™ III 3.5 SERIES 18.2GB
- O.S. Windows NT™ 4.0 server with SP3
- Client 6
- Controller 1
- Server 1

ServerBench Summary Table

Mix Name	Harmonic mean of Total TPS Scores	Harmonic mean of Total TPS Scores	Harmonic mean of Total TPS Scores
	(Dual Intel® Celeron™ PPGA 370 466MHz processor)	(Single Intel® Celeron™ PPGA 370 466MHz processor)	(Single Intel® Pentium III 450MHz processor)
sys_1	286.582	281.781	438.037
sys_2	477.856	330.551	431.455
sys_3	532.952	325.044	424.606
sys_4	522.207	326.408	413.413
sys_5	522.890	319.742	407.634
sys_6	520.819	319.867	406.179

Test Information: ServerBench 4.01 for Windows NT -svr-

QDI P6I440BX/B2 with QDI Twin Magic CPU card offers a substantial increase in performance at a competitive price by information of table shown above.



Chapter 2

Installation Instructions

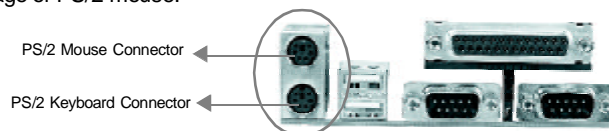
This section covers External Connectors, Jumper Settings and Memory Configuration. Refer to the motherboard layout chart for locations of all the jumpers, external connectors, slots and I/O ports. Furthermore, this section lists all necessary connector pin assignments for your reference. The particular 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 motherboard and expansion cards might be seriously damaged.

External Connectors

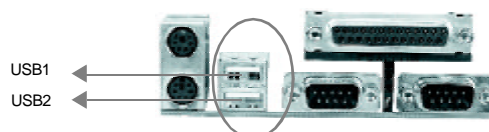
PS/2 Keyboard Connector, PS/2 Mouse Connector

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.



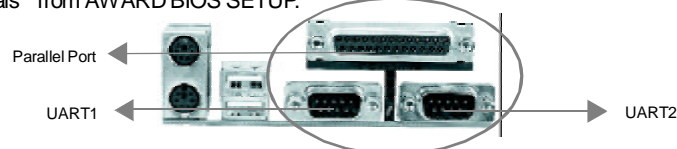
USB1, USB2

Two USB ports are available for connecting USB devices.



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

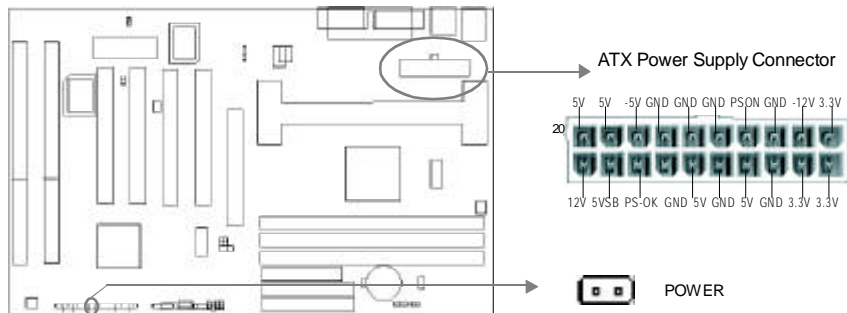
The parallel port connector can be connected to a parallel device such as a printer, while the serial port connectors can be connected to serial port devices such as a serial port mouse. You can enable/disable them and choose the IRQ or I/O address in "Integrated Peripherals" from AWARD BIOS SETUP.





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. 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 ***Push once*** 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.

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 powered off, the LED is off. When the system is powered up, the LED is on.

Key-Lock Connector (KEY_L)

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

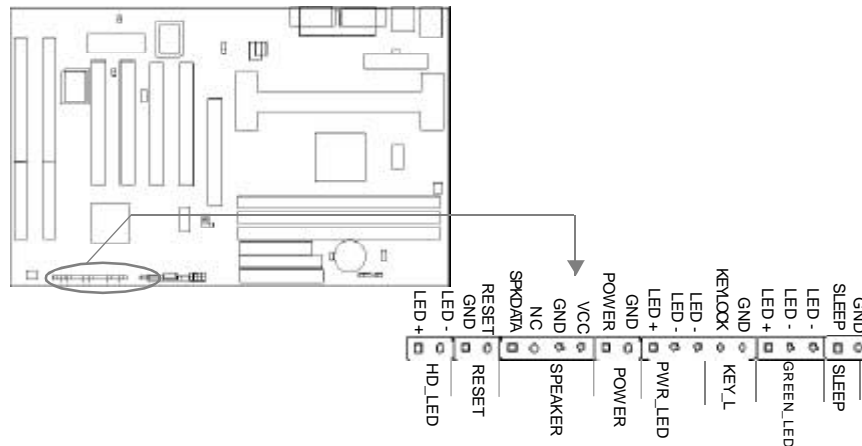


ACPI LED Connector (GREEN_LED)

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.

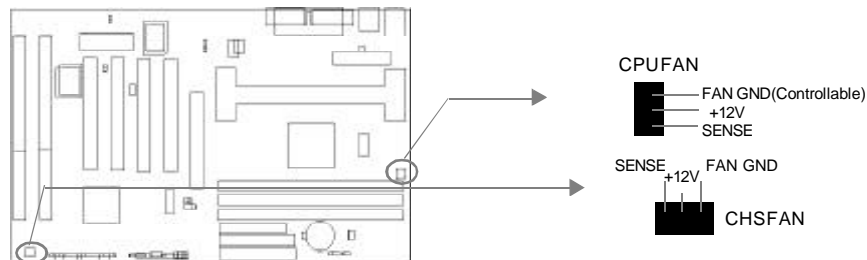
Hardware Green Connector (SLEEP)

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



Fan Connector (CPUFAN, CHSFAN)

The fan speed of these two fans can be detected and viewed in "System Monitor" section of the BIOS. The CPUFAN will be automatically turned off after the system enters suspend mode.

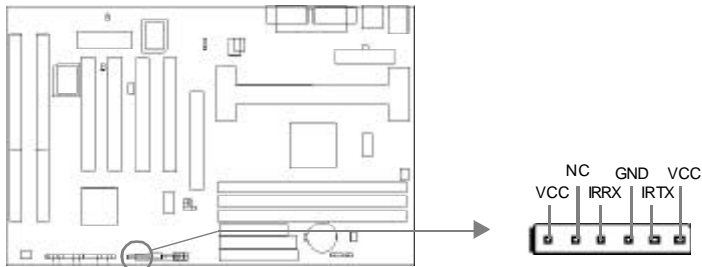


Note: It is recommended the CPU fan connector is used only when single processor is installed in the system. When dual Intel® Celeron™ PPGA processors are installed by using the Twin Magic CPU card, you have to use the CPU fan of which power connector uses ATX power supply's connector.



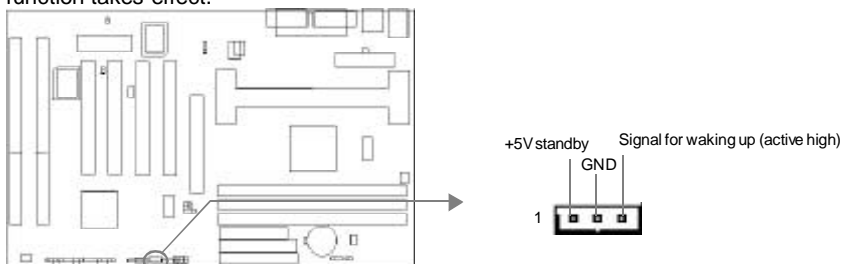
Infrared Header (IrDA)

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.



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)

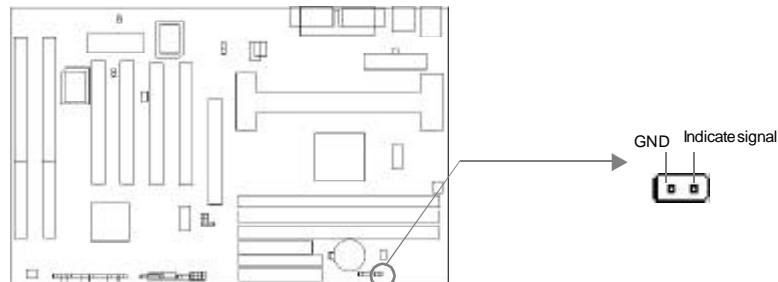
Through the Wake-Up On Internal Modem function, the system which is in the power-off status can be powered on by a ring signal received from the internal modem. If this function is to be used, be sure an internal modem card which supports the function is used. Then connect this header to the relevant connector on the modem card, set "Resume by Ring" to 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.





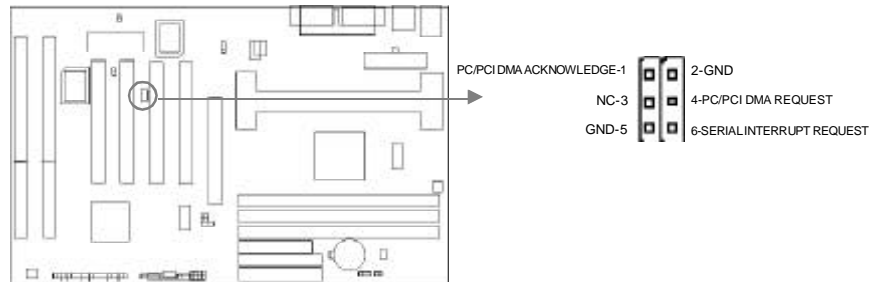
Chassis Security Switch (CHSSEC)

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 get this information from "System Monitor" of the BIOS



Sound Connector (PC-PCI)

This connector is for the usage of PCI sound card.






Expansion Slots & I/O Ports description

Slot / Port	Description
ISA 1	First ISA slot.
ISA 2	Second ISA slot.
PCI1	First PCI slot.
PCI2	Second PCI slot.
PCI3	Third PCI slot.
PCI4	Fourth PCI slot.
IDE 1	Primary IDE port.
IDE 2	Secondary IDE port.
FLOPPY	Floppy Drive Port.
AGP	Accelerated Graphics Port

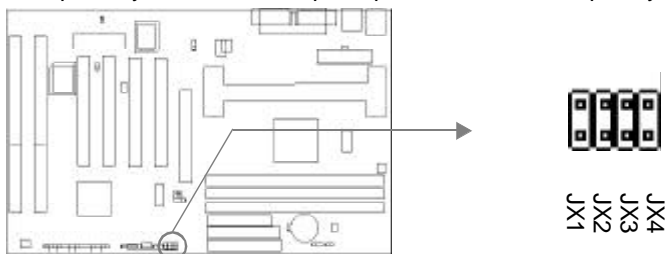


Jumper Settings

There are some jumpers on the motherboard, they represent, clear CMOS jumper JCC, enable keyboard password power-on function jumper JP2. Pin 1 for all jumpers are located on the side with a thick white line (Pin1→ ), referring to the motherboard's silkscreen . Jumpers with three pins will be shown as  to represent pin1&pin2 connected and  to represent pin2&pin3 connected.

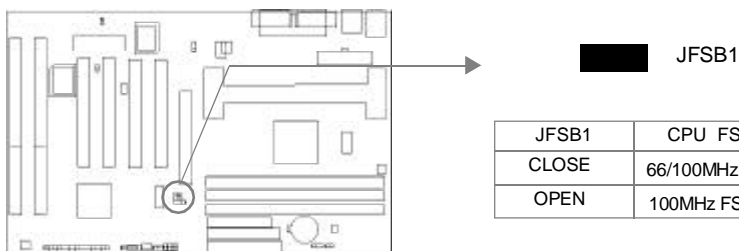
Clock Multiple Selection (JX4,JX3,JX2,JX1)

These jumpers set the frequency ratio between the Internal frequency of the CPU and the external frequency (namely the Front Side Bus). The system can determine the external frequency (FSB) of the CPU automatically. The Front Side Bus multiplied by the Clock Multiple equals the CPU's frequency.



Overclocking Jumper Setting (JFSB1)

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 66/100MHz or AUTO select. Refer to the chart below for the location of these jumpers, and the table for information on how to set them.



JFSB1	CPU FSB
CLOSE	66/100MHz Auto
OPEN	100MHz FSB

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. 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. We do not guarantee the overclocking system to be stable. Please keep Jumper(JFSB1) setting in accordance with the Jumper(JFSB) on Twin Magic card, or set Jumper(JFSB1) default setting in order to suit Jumper(JFSB) setting on card. Refer to Twin Magic card introduction for more information.



Clock Multiple Selection Table

Since current Intel Celeron™ PPGA 370 processors are all bus ratio locked, the following clock multiple settings are in fact not available for those processors.

FREQ.MUT	JX1	JX2	JX3	JX4
2	Close	Close	Close	Close
2.5	Open	Close	Close	Close
3	Close	Open	Close	Close
3.5	Open	Open	Close	Close
4	Close	Close	Open	Close
4.5	Open	Close	Open	Close
5	Close	Open	Open	Close
5.5	Open	Open	Open	Close
6	Close	Close	Close	Open
6.5	Open	Close	Close	Open
7	Close	Open	Close	Open
7.5	Open	Open	Close	Open
8	Close	Close	Open	Open

Carefully set the processor frequency by referring to the list below. The default setting is 400MHz.

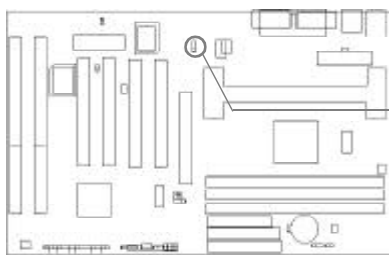
CPU Model	Freq. (MHz)	FSB (MHz)	Multiple	JX1	JX2	JX3	JX4
Pentium®II/ Pentium®III/ Celeron™	233	66	3.5	Open	Open	Close	Close
	266	66	4.0	Close	Close	Open	Close
	300	66	4.5	Open	Close	Open	Close
	333	66	5.0	Close	Open	Open	Close
	366	66	5.5	Open	Open	Open	Close
	400	66	6.0	Close	Close	Close	Open
	400	100	4.0	Close	Close	Open	Close
	350	100	3.5	Open	Open	Close	Close
	450	100	4.5	Open	Close	Open	Close
	500	100	5.0	Close	Open	Open	Close
	550	100	5.5	Open	Open	Open	Close
	600	100	6.0	Close	Close	Close	Open
	650	100	6.5	Open	Close	Close	Open
	700	100	7.0	Close	Open	Close	Open
	750	100	7.5	Open	Open	Close	Open
	800	100	8.0	Close	Close	Open	Open

Note: P6I440BX/B2 supports dual Celeron™ processors solution by using QDI Twin Magic CPU card.



Enable keyboard password power-on function (JKB)

The motherboard 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.



Disable: JKB



Enable: JKB



In order to implement this function, set "POWER ON Function" to **Password** and enter the keyboard power-on password in the "INTEGRATED PERIPHERALS" section of the BIOS. Save and exit, then power off your system. In this case, the power button's power-on function has been disabled. The only way to power up the system is to enter the correct password. If you forget the password, clear CMOS and set it again.

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 the devices connected to the keyboard port, or you can't power up the system using the keyboard.

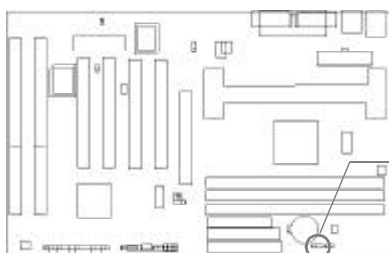
2.If you set JKB with pin2&pin3 closed, set "POWER ON Function" to **BUTTON ONLY**, don't set it to Password/Keyboard 98, or this will prevent you from powering up your system.

3. If Keyboard 98 is used, set JKB with Pin1& Pin 2 closed, meanwhile set "Power On Function" to keyboard 98 in AWARD BIOS CMOS setup.

4.If you encounter problems above, clear CMOS and set the jumper and BIOS option properly again.

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.



Normal status:



JCC

Clear CMOS:



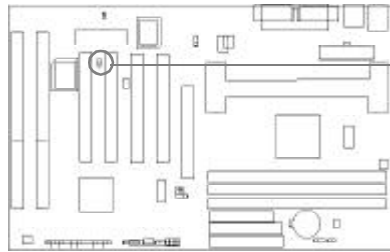
JCC

(Unplug the AC power supply)



BIOS Write Protection Jumper (JAV)

The BIOS of the mainboard is contained inside the Flash ROM. If the jumper JAV is set as closed, 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.



Flash Write Enabled
(Default)



JAV

Flash Write Disabled



JAV

Setting the jumper JAV as open (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 close makes flashing BIOS and updating DMI information impossible. Therefore, set JAV as open 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 detailed BIOS explanation.

Memory Configuration

This motherboard 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 for optimum configurations.

Rules for populating a 440BX memory array:

- Processors with 100MHz front-side bus should be paired only with 100MHz SDRAM. Processors with 66MHz front-side bus can be paired with either 66MHz or 100MHz SDRAM.
- 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 DIMM socket.



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Chapter 3

BIOS Description

Utility Support:

FLASH.EXE

This is a flash memory write/read utility used for the purpose of updating 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 motherboard, you may therefore update 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 Motherboard 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 motherboard.
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...>]][/h]

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.



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

Be sure your new BIOS is compatible with your MB. 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.