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®III Mainboard
BrillianX 9

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 COMPUTER (SCANDINAVIA) A/S
QDI SYSTEM HANDEL GMBH	QDI COMPUTER (NETHERLANDS) B. V.
QDI COMPUTER (FRANCE) SARL	QDI COMPUTER HANDELS GMBH
QDI COMPUTER (ESPANA) S.A.	QDI COMPUTER (SWEDEN) AB

Signature : _____ . Place / Date : HONG KONG/1999

Printed Name : Anders Cheung Position/ Title : President

Declaration of conformity

Trade Name:	QDI Computer (U. S . A.) Inc.
Model Name:	BrillianX 9
Responsible Party:	QDI Computer (U. S. A.) Inc.
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Equipment Classification:	FCC Class B Subassembly
Type of Product:	AGP Pentium®III Mainboard
Manufacturer:	**Quantum Designs (HK) Inc.**
Address:	5/F, Somerset House, TaiKoo Place 979 Kings 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.

Signature : _____. Date : 1999

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SpeedEasy Quick Setup

Procedures :

1. Correctly insert the Intel®Celeron™ PPGA370 or Intel FC-PGA Pentium®III processor.
2. Plug in other configurations and restore the system.
3. Switch on power to the system and press the <Del> key to enter BIOS Setup.
4. Enter "SpeedEasy CPU SETUP" menu to set up the CPU speed.
5. Save and exit BIOS Setup, your system will now boot successfully.

SpeedEasy CPU Setup Menu

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

Figure - 1 SpeedEasy CPU Setup Menu

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

Warning:

Dot not set CPU frequency higher than its working frequency. If you do, we will not be responsible for any damages caused. Whether or not the system can be overclocked depends on the processor's capability. We do not guarantee the overclock system to be stable.

Users are provided with CPU overclock feature through "Jumper Emulation". If the "clock spread spectrum"is set as Enabled , The host bus speed can be chosen 66/83/100/133/140/150MHz; If the "clock spread spectrum"is set as Disabled , The host bus speed can be chosen 66/78/83/100/113/133/140/144/150/155MHz. The multiplier can be chosen from 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8. However the multiplier setting will not function for bus ratio locked processor, only bus ratio unlocked processor.

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Í ¹ ý "Jumper Emulation", Î Ã Ç ¹ Ó Ã $ á ©PU ³ Æ µ À Ü Ï ú ® Ü Ã Ù È É Ò Ã Ø Ã 66/78/83/100/113/133/140/144/150/155MHz.± ¢ Ã ý É Ø Ã 2/2.5/3/3.5/4/4.5/5/5.5/6/6.5/7/7.5/8. È ¶ ¢ Ô ú ¢ Ã ý Ø ù Ä PU, ´ Ë É Ø Ã Ð §± ¢ Ã ý Ø Ã ½ ¢ Ô Ë Ø ® ¢ Ã ý Ä PUÓ Ð §

Installation de la carte mère BrillianX 9

1. Assurez-vous que votre ensemble est complet: carte mère, câbles IDE et FLOPPY, notice d' utilisation et CD-ROM d' installation.
2. Vérifiez que l' alimentation est débranchée et reliez-vous à la terre par une courroie à votre poignet. A défaut, maintenez le contact de vos deux mains avec un objet lui-même relié à la terre, ou une partie en métal de votre système.
3. Fixez la carte mère dans le boîtier grâce aux vis fournies avec celui-ci.
4. Si votre carte mère est munie de cavaliers, placez les en fonction des options que vous souhaitez utiliser: réglage de la fréquence du processeur si votre carte n' est pas SpeedEasy, fonction allumage par saisie du mot de passe. (voir le manuel, rubrique «configuration des cavaliers» pages 13 à 16)
5. Insérez le processeur dans son logement avec son ventilateur que vous brancherez au connecteur «CPUFAN».
6. Insérez la/les barrette(s) mémoire dans les slots DIMM.
7. Installez vos éventuelles cartes PCI et AMR dans les slots prévus à cet effet (voir page centrale du manuel).
8. Branchez vos périphériques IDE et FLOPPY sur les connecteurs prévus à cet effet grâce aux nappes fournies avec la carte. Vérifiez que le sens de branchement est correct (liseré rouge du câble sur la broche 1 du connecteur).
9. Reliez les câbles du boîtier aux connecteurs prévus à cet effet (Connecteur d' alimentation, LED de marche/arrêt, disque dur, haut-parleur. (voir manuel pages 9 à 12). Refermez le boîtier.
10. Branchez les périphériques externes sur les sorties du fond de panier: clavier, souris PS/2, périphériques USB, moniteur, imprimante. (voir manuel pages 7-8)
11. Lorsque tous les éléments du système sont installés physiquement, rebranchez l' unité centrale.

Installation du système.

1. Démarrez votre système en pressant le bouton «POWER».
2. Pressez la touche «Suppr» pour entrer dans le setup du BIOS.
3. Dans le menu «SpeedEasy CPU Setup», réglez la vitesse de votre processeur (ATTENTION: il est recommandé de ne pas sélectionner une fréquence supérieure à celle de votre processeur, nous déclinons toute responsabilité pour les dommages qui en résulteraient)
4. Effectuez les autres réglages du BIOS selon votre configuration (nous vous conseillons fortement de maintenir les réglages par défaut afin d' éviter toute manipulation hasardeuse pouvant résulter en un dysfonctionnement). Pour plus d' informations sur les fonctions du BIOS, vous pouvez consulter la version française du manuel sur le CD-ROM.

5. Pressez la touche F10 ou choisissez «Save and exit» pour enregistrer vos paramètres et relancer la machine.
6. Installez votre système d' exploitation
7. Après installation, assurez-vous qu' il ne subsiste aucun conflit ou périphérique inconnu dans votre système.
8. Installation des pilotes:

1. Chipset:
Les pilotes des chipsets Intel du répertoire \ChipDrv\Intel peuvent être utilisés sur cette carte mère.

a) Pilote Intel PIIX4, dans le répertoire \ChipDrv\Intel\PIIX4
Ce pilote est pour Windows 95 OSR2, il supporte les derniers périphériques PCI Intel tels que contrôleur de disque dur IDE? USB etc…il peut également supprimer les points d' interrogation jaunes dans le gestionnaire de périphériques de Windows 95.
Lancez \ChipDrv\Intel\PIIX4\setup.exe pour installation

a) Pilote Intel Bus Master dans le répertoire \ChipDrv\Intel\BMIDE
C' est le pilote Intel Bus Master pour Windows 95 qui améliore les capacités du transfert de données jusqu' à l' UltraDMA/33Mo supporté par le chipset 440BX ou d' autres chipsets.
Lancez \ChipDrv\Intel\BMIDE\Setup.exe pour l' installation

Sous Windows 98 ou 98SE, il n' est pas nécessaire d' installer ces pilotes

2. Logiciel PC-cillin 98:
Pour Windows 95/98, version anglaise, dans le répertoire \Pccillin\Win9X. Lancez setup.exe pour l' installation.
Pour Windows NT version anglaise, il se trouve dans le répertoire \Pccillin\Winnt40, lancez setup.exe.
Numéro de série: PNEF-9991-6558-5857-5535.

3. QDI ManageEasy:
Si vous souhaitez installer le gestionnaire ManageEasy de QDI,lancez le setup.exe du répertoire \QME du CD-ROM. Pour des informations détaillées sur le ManageEasy, référez-vous au manuel ManageEasy du répertoire \Doc.
N' oubliez pas de redémarrer votre système pour que les changements soient pris en compte.

Le menu SpeedEasy

I. Insérez le processeur correctement.
II. Connectez les autres éléments du système (voir Installation).
III. Au démarrage du système, pressez la touche <Suppr> pour entrer dans le Bios
IV. Entrez dans le menu «CPU SpeedEasy setup»

Note: si vous ne déterminez pas la vitesse de votre unité centrale, votre système fonctionnera par défaut (200MHz pour les CPU avec une fréquence de Bus de 100MHz et 133MHz pour les CPU à 66MHz).

V. Sauvegardez et quittez le Bios.

CMOS Setup Utility – Copyright© 1984-1999 Award Software

SpeedEasy CPU Setup

CPU Model	: Intel® Celeron™	Item Help
CPU Speed	: 433 Mhz (66x6.5)	
X Multiplier	X2	Menu Level >
X Bus Clock	66MHz	
Spread Spectrum	Disabled	

Prévenir :

Le menu SpeedEasy vous fournit un ensemble de valeurs. Vous pouvez sélectionner manuellement la vitesse de CPU dans ce menu soit en mode «SpeedEasy» soit en mode «Jumper Emulation» (voir manuel).

ATTENTION: Ne pas sélectionner une fréquence de fonctionnement du CPU supérieure à celle indiquée par le constructeur. Nous déclinons toute responsabilité pour tout dégât qui en résulterait.

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Chapter 1
Introduction

Overview

The BrillianX 9 green mainboard utilizes the Intel®440BX AGPset and provides a highly integrated solution for fully compatible, high performance and cost-effective PC/ATX platform. It provides 66/100MHz system bus support for all Intel Celeron™ PPGA370 and Pentium® III FC-PGA processors. Both PC66 and PC100 SDRAM DIMMs are supported. It also provides advanced features such as wake-up on LAN, wake-up on internal/external modem and keyboard password power-on function. The green function is in compliance with the ACPI specification.

Key Features

Form factor

- ATX form factor of 305mm x 193mm.

Microprocessor

- Supports all Intel®Celeron™ PPGA 370 processors at 300A/333/366/400/433/466/500MHz and future processors.
- Supports all Intel Pentium® III FC-PGA processors at 500E/550E/600E/650/700MHz and future processors.
- Supports 66MHz and 100MHz host bus speed, can over clock to 155MHz.
- CPU core frequency = Bus speed x2, x2.5, x3, x3.5, x4, x4.5, x5, x5.5, x6, x6.5, x7, x7.5, x8.
- CPU core supply voltage adjustable from 1.3V to 2.05V 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 ECC(Error Checking and Correction) DIMM sockets.
- Supports PC66/PC100 SDRAM DIMMs.
- Minimum memory size is 8MB, maximum memory size is 768MB.

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.
- Integrated 16x32bit buffer for IDE PCI Burst Transfers.

On-board I/O

- 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.

AGP SLOT

- Supports an 2X AGP card.

Advanced features

- PCI 2.1 Specification compliant.
- Provides Anti-virus function.
- Provides on-board PS/2 mouse and PS/2 keyboard ports.
- Two USB ports supported.
- Provides infrared interface.
- Supports Windows 95/98 software power-down.
- Supports wake-up on LAN and wake-up on internal/external modem.
- Supports auto fan off when the system enters suspend mode.
- On-board W83782D supports system monitoring (monitors CPU and system temperature,voltages and fan speed). (manufacturing option)
- 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 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 5 PCI slots.
- 1 AGP Slot.

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Chapter 2

Installation Instructions

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

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

External Connectors

PS/2 Keyboard Connector, PS/2 Mouse Connector

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

USB1, USB2

Two USB ports are available for connecting USB devices.

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

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

ATX Power Supply Connector & Power Switch (POWER)

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

Reset Switch (RESET)

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

Speaker Connector (SPEAKER)

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

Power LED Connector (PWRLED)

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

Key-Lock Connector (KEY_L)

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

ACPI LED Connector (GRNLED)

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

Hardware Green Connector (SLEEP)

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

Infrared Header (IrDA)

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

Fan Connector (CPUFAN, CHSFAN)

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

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 "PowerOn by Ring/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 " PowerOn by Ring/ 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.

Sound Connector (PC-PCI)

This connector is for the usage of PCI sound card.