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CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

Thank you for choosing our product. Before you start installing the motherboard, please make sure you follow the instructions below:

- Prepare a dry and stable working environment with sufficient lighting.
- Always disconnect the computer from power outlet before operation.
- Before you take the motherboard out from anti-static bag, ground yourself properly by touching any safely grounded appliance, or use grounded wrist strap to remove the static charge.
- Avoid touching the components on motherboard or the rear side of the board unless necessary. Hold the board on the edge, do not try to bend or flex the board.
- Do not leave any unfastened small parts inside the case after installation. Loose parts will cause short circuits which may damage the equipment.
- Keep the computer from dangerous area, such as heat source, humid air and water.

1.2 PACKAGE CHECKLIST

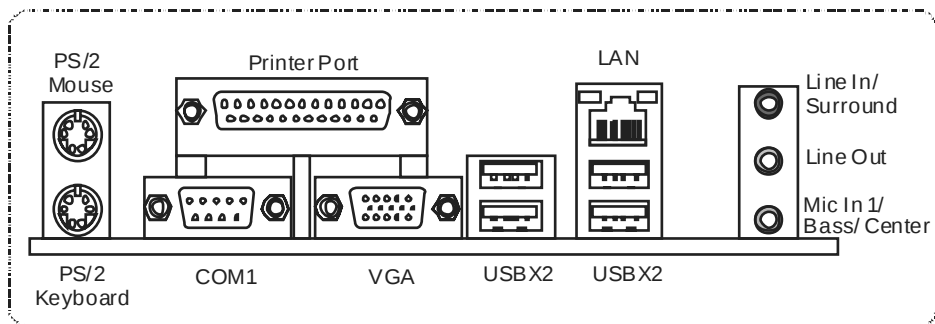
- HDD Cable X 1
- User's Manual X 1
- Fully Setup Driver CD X 1
- Rear I/O Panel for ATX Case X 1
- FDD Cable X 1 (optional)
- Serial ATA Cable X 1 (optional)
- USB 2.0 Cable X1 (optional)
- S/PDIF Cable X 1 (optional)
- Serial ATA Power Cable X 1 (optional)

1.3 MOTHERBOARD FEATURES

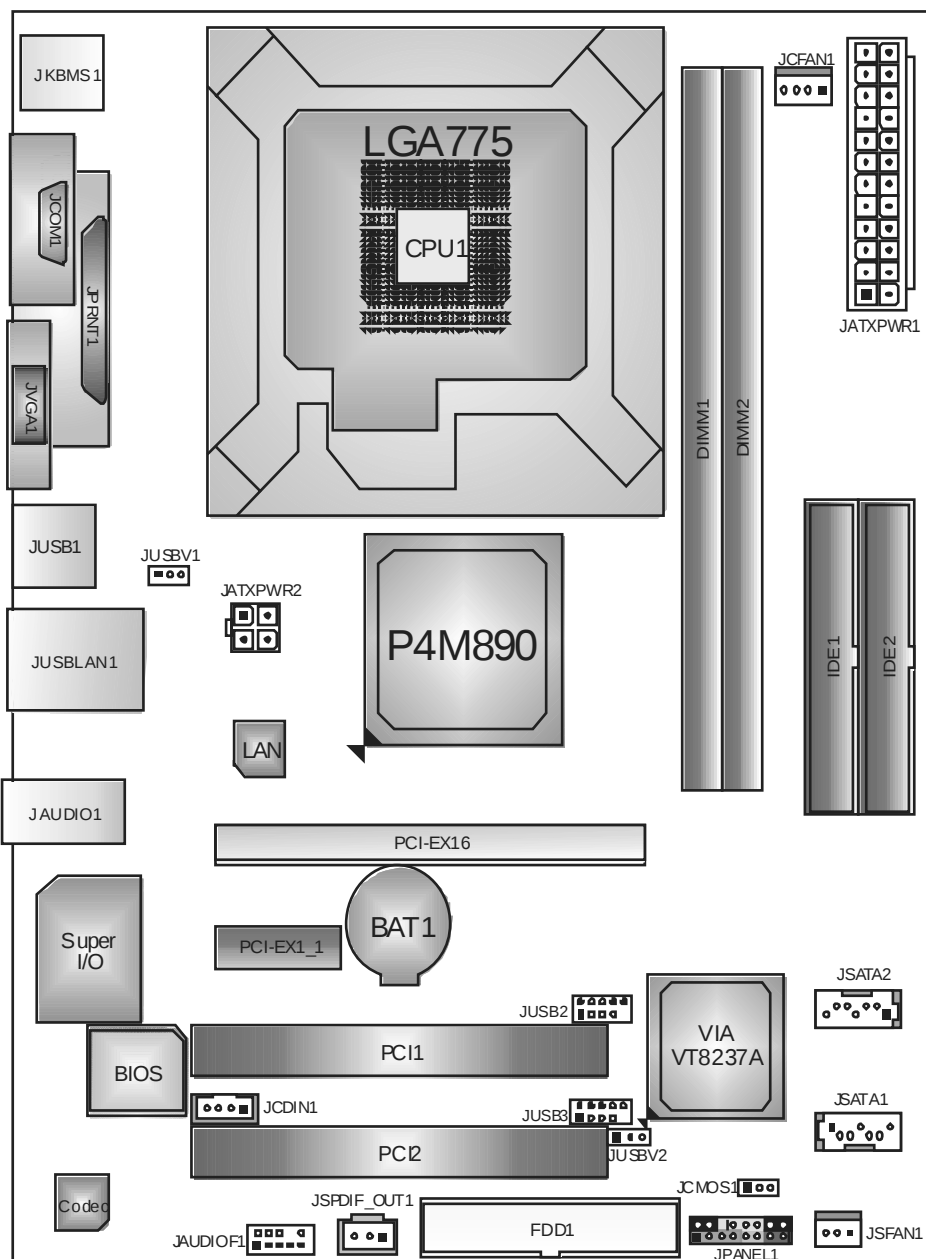
SPEC		
CPU	LGA 775 Intel Core 2 Duo / Pentium 4 / Pentium D / Celeron D processor up to 3.8 GHz *It is recommended to use processors with 95W power consumption.	Supports Hyper Transport/ Execute Disable Bit/ Enhanced Intel SpeedStep®/ Intel Extended Memory 64 technology
FSB	533 / 800 / 1066 MHz	
Chipset	VIA P4M890 VIA VT8237A	
Graphic	Integrated in UniChrome Pro Chipset	Max Shared Video Memory is 64 MB
Super I/O	ITE IT8712F Provides the most commonly used legacy Super I/O functionality. Low Pin Count Interface	Environment Control initiatives, H/W Monitor Fan Speed Controller ITE's "Smart Guardian" function
Main Memory	DIMM Slots x 2 Supports DDR2 533 Each DIMM supports 256/512MB/1GB/2GB DDR2 Max Memory Capacity 4GB	Single Channel Mode DDR2 memory module Registered DIMM and ECC DIMM is not supported
IDE	Integrated IDE Controller	Ultra DMA 33~133 Bus Master Mode supports PIO Mode 0~4,
SATA	Integrated Serial ATA Controller	Data transfer rates up to 1.5 Gb/s. SATA Version 1.0 specification compliant.
LAN PHY	Realtek RTL 8201CL PHY	10 / 100 Mb/s auto negotiation Half / Full duplex capability
Sound Codec	ALC861VD	5.1 channels audio out High-Definition Audio support
Slots	PCI Express x16 slot x1 PCI Express x1 slot x1 PCI slot x2	Supports PCI express x16 expansion cards Supports PCI express x1 expansion cards Supports PCI expansion cards
On Board Connector	Floppy connector x1 IDE Connector x2 SATA Connector x2 Front Panel Connector x1 Front Audio Connector x1 CD-in Connector x1	Each connector supports 2 Floppy drives Each connector supports 2 IDE device Each connector supports 1 SATA devices Supports front panel facilities Supports front panel audio function Supports CD audio-in function

SPEC			
Back Panel I/O	S/PDIF out connector	x1	Supports digital audio out function
	CPU Fan header	x1	CPU Fan power supply (with Smart Fan function)
	System Fan header	x1	System Fan Power supply
	Clear CMOS header	x1	Restore CMOS data to factory default
	USB connector	x2	Each connector supports 2 front panel USB ports
	Power Connector (24pin)	x1	Connects to Power supply
	Power Connector (4pin)	x1	Connects to Power supply
	PS/2 Keyboard	x1	Connects to PS/2 Keyboard
Back Panel I/O	PS/2 Mouse	x1	Connects to PS/2 Mouse
	Serial Port	x1	Provide RS-232 Serial connection
	Printer Port	x1	Connects to various types of device
	VGA Port	x1	Connects to monitor.
	LAN port	x1	Connects to RJ-45 ethernet cable
	USB Port	x4	Connects to USB devices
	Audio Jack	x3	Provide Audio-In/Out and microphone connection
Board Size	190 mm (W) x 244 mm (L)		Micro ATX form Factor
OS Support	Windows 2000 / XP		Biostar Reserves the right to add or remove support for any OS with or without notice.

1.4 REAR PANEL CONNECTORS



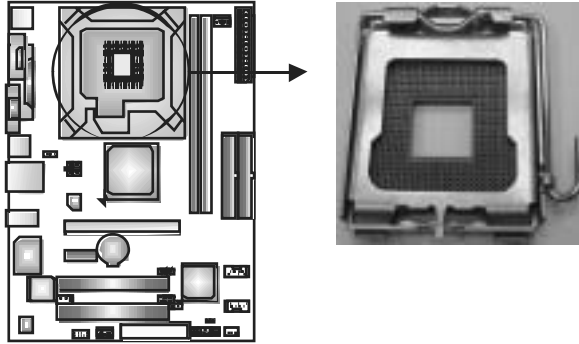
1.5 MOTHERBOARD LAYOUT



Note: ■ represents the 1st pin.

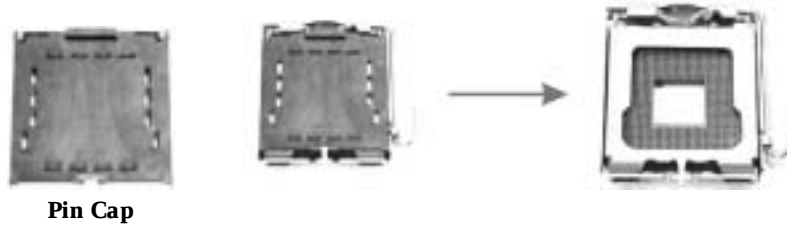
CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

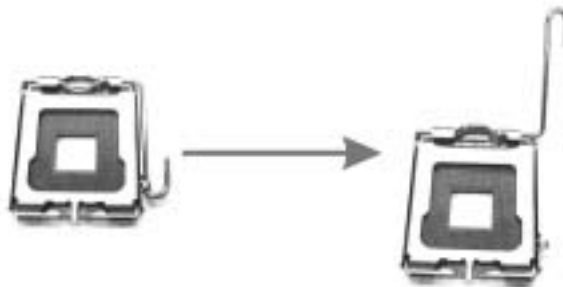


Special Notice

Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.



Step 1: Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.

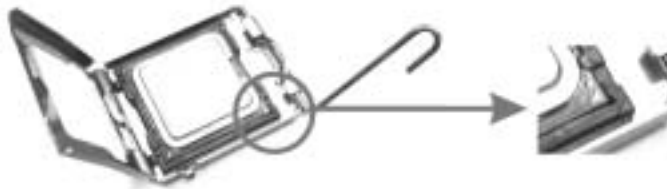


Step 2: Look for the triangular cut edge on socket, and the golden dot on CPU should point forwards this triangular cut edge. The CPU will fit only in the correct orientation.

Step 2-1:



Step 2-2:



Step 3: Hold the CPU down firmly, and then lower the lever to locked position to complete the installation.

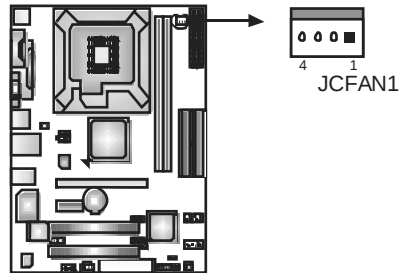


Step 4: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the JCFAN1. This completes the installation.

2.2 FAN HEADERS

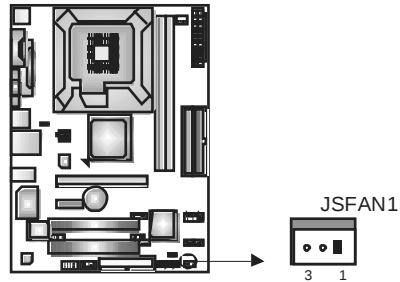
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

JCFAN1: CPU Fan Header



Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense
4	Smart Fan Control

JSFAN1: System Fan Header



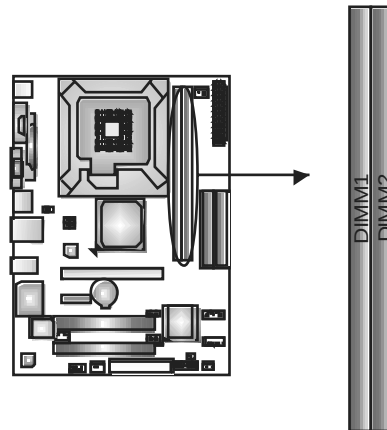
Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

Note:

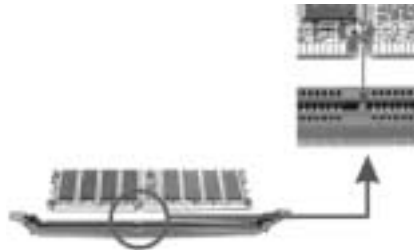
The JSFAN1 support 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

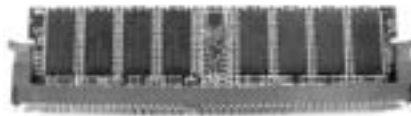
A. Memory Modules



1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



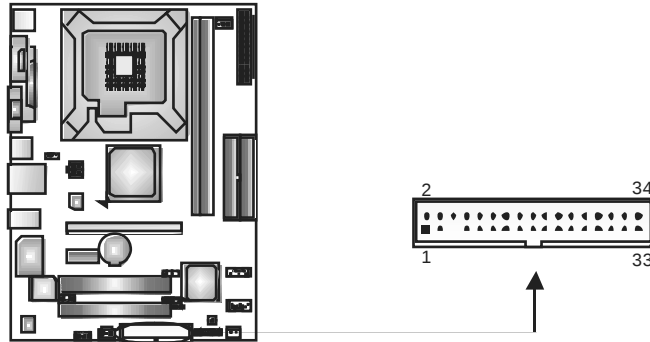
B. Memory Capacity

DIMM Socket Location	DDR Module	Total Memory Size
DIMM1	256MB/512MB/1GB/2GB	Max is 4GB.
DIMM2	256MB/512MB/1GB/2GB	

2.4 CONNECTORS AND SLOTS

FDD1: Floppy Disk Connector

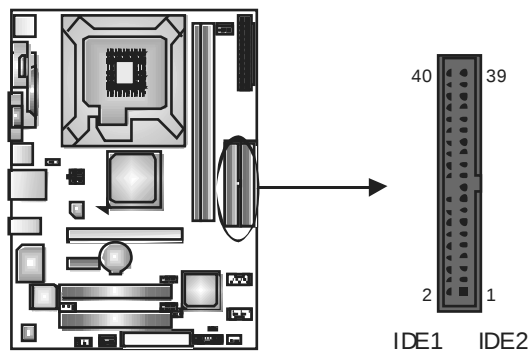
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



IDE1/IDE2: Hard Disk Connectors

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0-4, Bus Master, and Ultra DMA 33/66/100/133 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

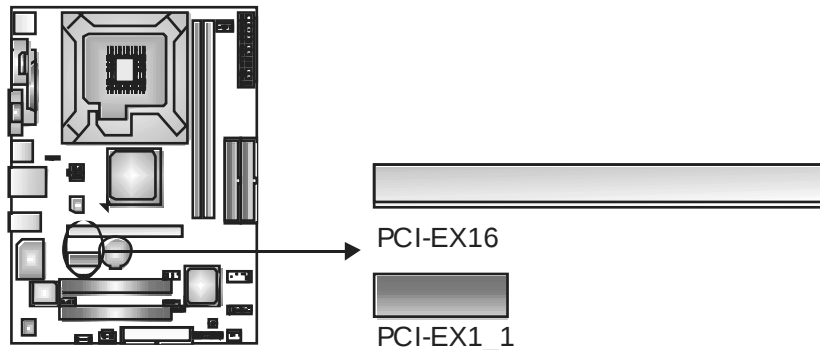


PCI-EX16: PCI-Express x16 Slot

- PCI-Express 1.0a compliant.
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.

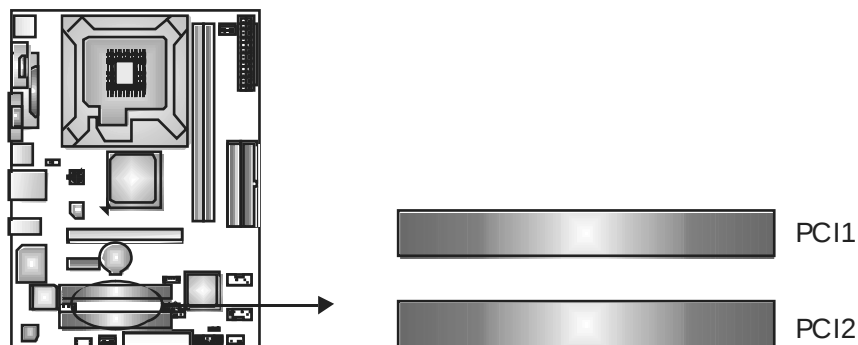
PCI-EX1_1: PCI-Express x1 Slot

- PCI-Express 1.0a compliant.
- Data transfer bandwidth up to 250MB/s per direction; 500MB/s in total.
- PCI-Express supports a raw bit-rate of 2.5Gb/s on the data pins.
- 2X bandwidth over the traditional PCI architecture.



PCI1~PCI2: Peripheral Component Interconnect Slots

This motherboard is equipped with 2 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

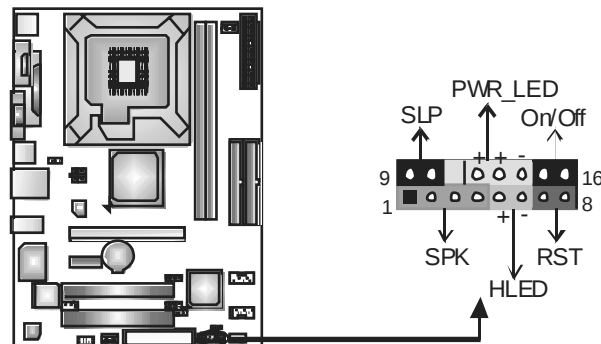
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

JPANEL1: Front Panel Header

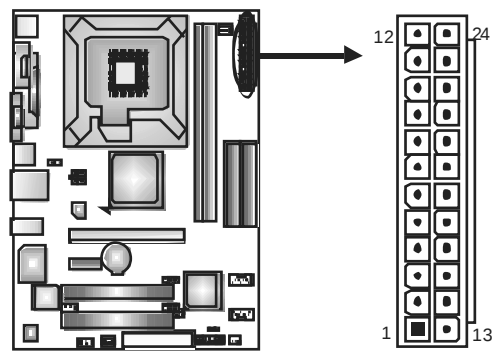
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button and speaker connection. It allows user to connect the PC case's front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	Sleep control	Sleep button
2	N/A		10	Ground	N/A
3	N/A		11	N/A	N/A
4	Speaker	Hard drive LED	12	Power LED (+)	Power LED
5	HDD LED (+)		13	Power LED (+)	
6	HDD LED (-)		14	Power LED (-)	
7	Ground	Reset button	15	Power button	Power-on button
8	Reset control		16	Ground	

ATX Power Source Connector: JATXPWR1

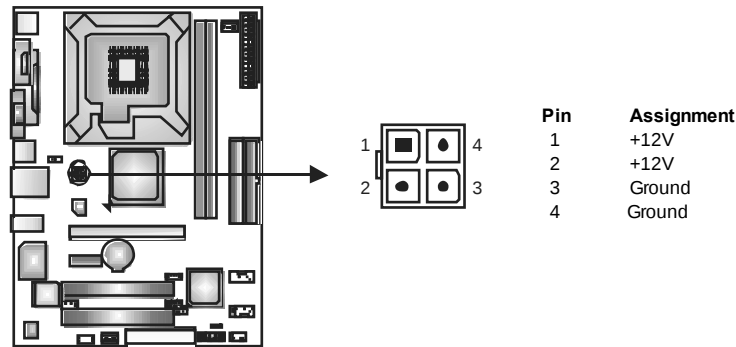
JATXPWR1 allows user to connect 24-pin power connector on the ATX power supply.



Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

JATXPWR2: ATX Power Source Connector

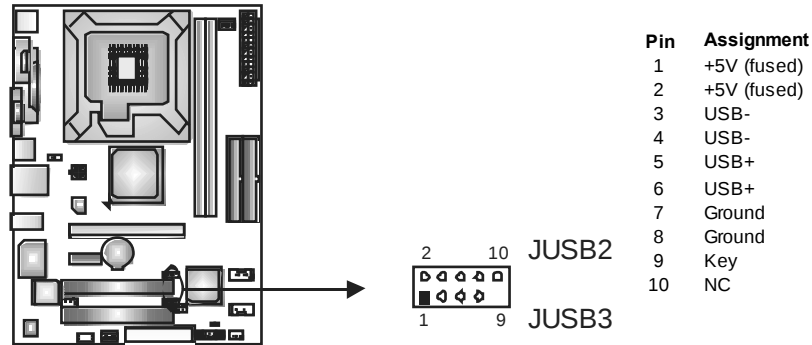
By connecting this connector, it will provide +12V to CPU power circuit.



Pin	Assignment
1	+12V
2	+12V
3	Ground
4	Ground

JUSB2/JUSB3: Headers for USB 2.0 Ports at Front Panel

This header allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



JUSBV1/JUSBV2: Power Source Headers for USB Ports

Pin 1-2 Close:

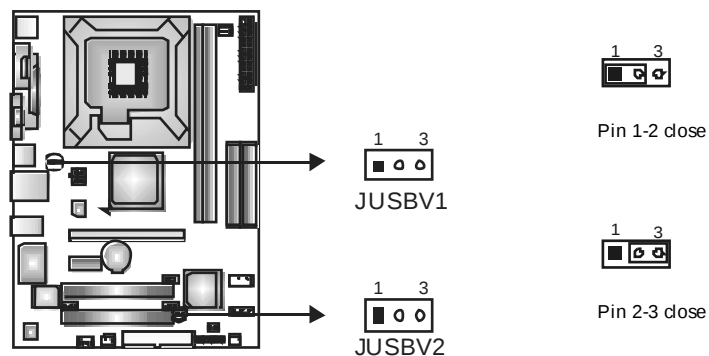
JUSBV1: +5V for USB ports at JUSB1/JUSBLAN1.

JUSBV2: +5V for USB ports at front panel (JUSB2/JUSB3).

Pin 2-3 Close:

JUSBV1: USB ports at JUSB1/JUSBLAN1 are powered by +5V standby voltage.

JUSBV2: USB ports at front panel (JUSB2/JUSB3) are powered by +5V standby voltage.

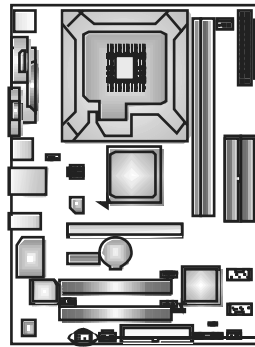


Note:

In order to support this function "Power-On system via USB device," "JUSBV1/ JUSBV2" jumper cap should be placed on Pin 2-3 individually

JAUDIOF1: Front Panel Audio Header

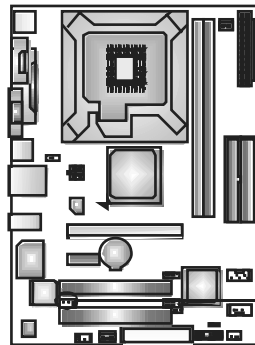
This header allows user to connect the front audio output cable with the PC front panel. It will disable the output on back panel audio connectors.



Pin	Assignment
1	Mic Left in
2	Ground
3	Mic Right in
4	GPIO
5	Right line in
6	Jack Sense
7	Front Sense
8	Key
9	Left line in
10	Jack Sense

JCDIN1: CD-ROM Audio-in Connector

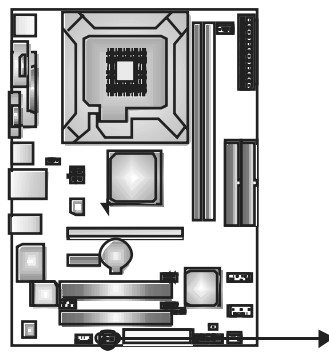
This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV tuner card etc.



Pin	Assignment
1	Left Channel Input
2	Ground
3	Ground
4	Right Channel Input

JSPDIF_OUT1: Digital Audio-out Connector

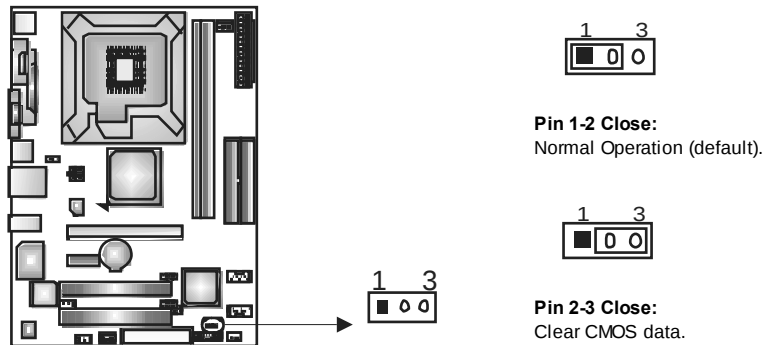
This connector allows user to connect the PCI bracket SPDIF output header.



Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

JCMOS1: Clear CMOS Header

By placing the jumper on pin2-3, it allows user to restore the BIOS safe setting and the CMOS data, please carefully follow the procedures to avoid damaging the motherboard.

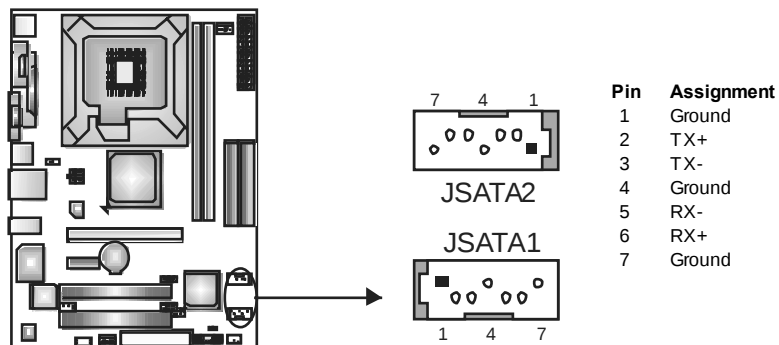


※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

JSATA1~JSATA2: Serial ATA Connectors

The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and with transfer rate of 1.5Gb/s.

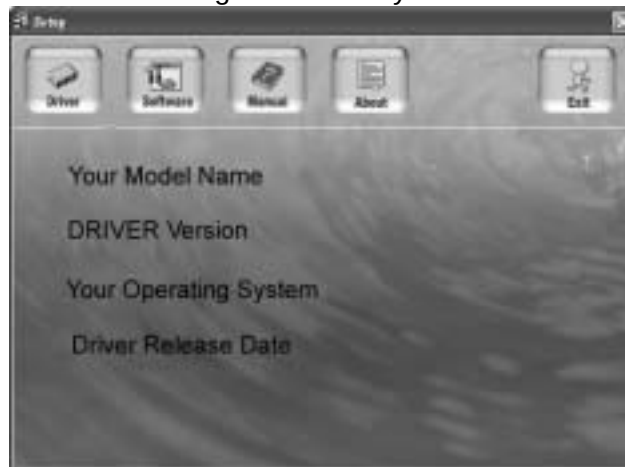


CHAPTER 4: USEFUL HELP

4.1 DRIVER INSTALLATION NOTE

After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance.

You will see the following window after you insert the CD



The setup guide will auto detect your motherboard and operating system.

Note:

If this window didn't show up after you insert the Driver CD, please use file browser to locate and execute the file **SETUP.EXE** under your optical drive.

A. Driver Installation

To install the driver, please click on the Driver icon. The setup guide will list the compatible driver for your motherboard and operating system. Click on each device driver to launch the installation program.

B. Software Installation

To install the software, please click on the Software icon. The setup guide will list the software available for your system, click on each software title to launch the installation program.

C. Manual

Aside from the paperback manual, we also provide manual in the Driver CD. Click on the Manual icon to browse for available manual.

Note:

You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from <http://www.adobe.com/products/acrobat/readstep2.html>

4.2 AWARD BIOS BEEP CODE

Beep Sound	Meaning
One long beep followed by two short beeps	Video card not found or video card memory bad
High-low siren sound	CPU overheated System will shut down automatically
One Short beep when system boot-up	No error found during POST
Long beeps every other second	No DRAM detected or install

4.3 EXTRA INFORMATION

A. BIOS Update

After you fail to update BIOS or BIOS is invaded by virus, the Boot-Block function will help to restore BIOS. If the following message is shown after boot-up the system, it means the BIOS contents are corrupted.



In this Case, please follow the procedure below to restore the BIOS:

1. Make a bootable floppy disk
2. Download the Flash Utility "AWDFLASH.exe" from the Biostar website: www.biostar.com.tw
3. Confirm motherboard model and download the respectively BIOS from Biostar website.
4. Copy "AWDFLASH.exe" and respectively BIOS into floppy disk
5. Insert the bootable disk into floppy drive and press Enter.
6. System will boot-up to DOS prompt.
7. Type "Awdflash xxxx.bf/sn/py/r" in DOS prompt.
(xxxx means BIOS name.)
8. System will update BIOS automatically and restart.
9. The BIOS has been recovered and will work properly.

B. CPU Overheated

If the system shutdown automatically after power on system for seconds, that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid a damage of the CPU, and the system may not power on again.

In this case, please double check:

1. The CPU cooler surface is placed evenly with the CPU surface.
2. CPU fan is rotated normally.
3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.

1. Remove the power cord from power supply for seconds.
2. Wait for seconds.
3. Plug in the power cord and boot up the system.

Or you can:

1. Clear the CMOS data.
(See "Close CMOS Header: JCMOS1" section)
2. Wait for seconds.
3. Power on the system again.

4.4 TROUBLESHOOTING

Probable	Solution
1. No power to the system at all Power light don't illuminate, fan inside power supply does not turn on. 2. Indicator light on key board does not turn on.	1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support.
System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from hard disk drive, can be booted from optical drive.	1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.	1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message says "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
Cannot boot system after installing second hard drive.	1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

CHAPTER 5: WARPSPEEDER™



5.1 INTRODUCTION

[WarpSpeeder™], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

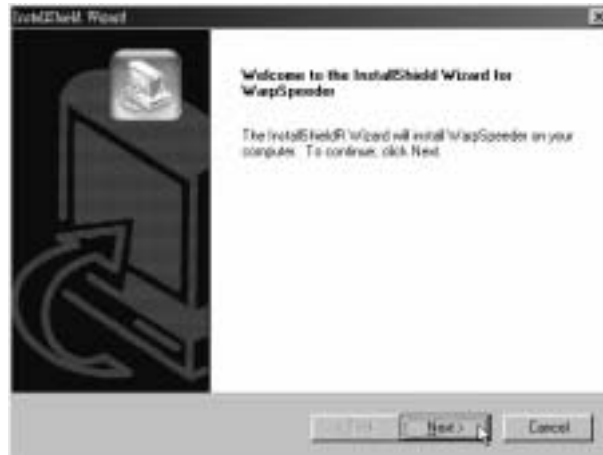
Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

5.2 SYSTEM REQUIREMENT

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP
DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

5.3 INSTALLATION

1. Execute the setup execution file, and then the following dialog will pop up. Please click "Next" button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the "Launch the WarpSpeeder Tray Utility" checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click "Finish" button.



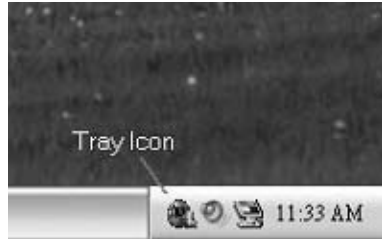
Usage:

The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.

5.4 WARPSPEEDER™

1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The "Launch Utility" item in the popup menu has the same function as mouse left-click on tray icon and "Exit" item will close Tray Icon utility if selected.



2. Main Panel

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer to the following figure; the utility's first window you will see is Main Panel.

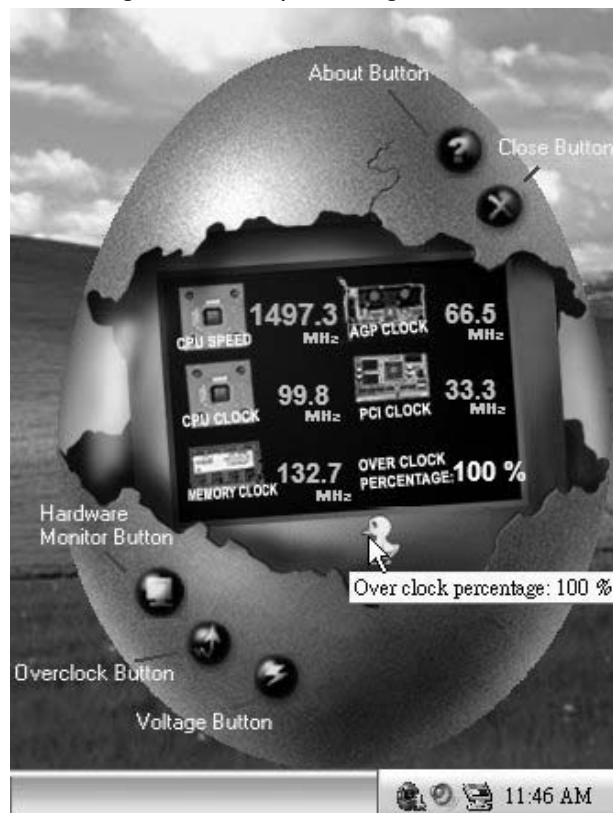
Main Panel contains features as follows:

- Display the CPU Speed, CPU external dock, Memory dock, AGP dock, and PCI dock information.
- Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Man walking → overclock percentage from 100% ~ 110 %

Panther running → overclock percentage from 110% ~ 120%

Car racing → overclock percentage from 120% ~ above



3. Voltage Panel

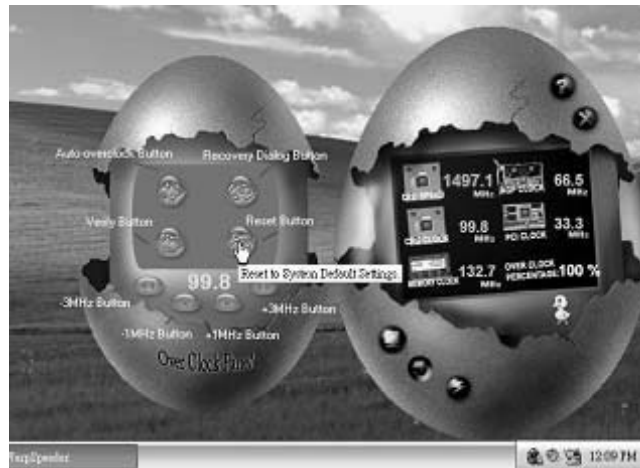
Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".



4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overdock Panel will slide out to left as the following figure.



Overdock Panel contains the these features:

- a. “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overdock adjustment.

Warning:

Manually overclock is potentially dangerous, especially when the overlocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [WarpSpeeder™] automatically gets the best result for you.

- b. “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- Note:**

5. Hardware Monitor Panel

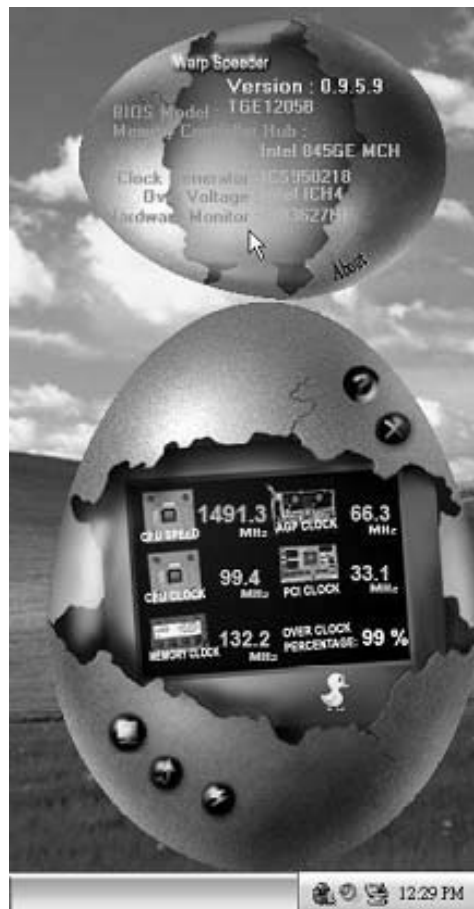
In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



6. About Panel

Click the “about” button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [WarpSpeeder™] utility.



Note:

Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [WarpSpeeder™] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [WarpSpeeder™] utility more robust.

APPENDENCIES: SPEC IN OTHER LANGUAGE

GERMAN

Spezifikationen		
CPU	LGA 775 Intel Core2Duo/ Pentium 4 / Pentium D / Celeron D Prozessoren mit bis zu 3,8 GHz *It is recommended to use processors with 95W power consumption.	Unterstützt Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology
FSB	533 / 800 / 1066 MHz	
Chipsatz	VIA P4M890 VIA VT8237A	
Grafik	Integrierter UniChrome Pro Chipsatz	Max. 64MB gemeinsam benutzter Videospeicher
Super E/A	ITE 8712F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle	Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR2 DIMM-Steckplätze x 2 Unterstützt DDR2 533 Jeder DIMM unterstützt 256/512MB/1GB/2GB DDR2. Max. 4GB Arbeitsspeicher	Ein-Kanal DDR2 Speichermodul registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
IDE	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 / 133Bus Master-Modus	Unterstützt PIO-Modus 0~4,
SATA	Integrierter Serial ATA-Controller Datentransferrate bis zu 1.5Gb/s	Konform mit der SATA-Spezifikation Version 1.0.
LAN PHY	Realtek RTL 8201CL PHY	10 / 100 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion
Audio-Codec	ALC861VD	Unterstützt High- Definition Audio 5.1-Kanal-Audioausgabe
Steckplätze	PCI-Steckplatz x2 PCI Express x16 Steckplatz x1 PCI Express x1-Steckplatz x1	

Spezifikationen			
Onboard-Anschluss	Diskettenlaufwerkanschluss	x1	Jeder Anschluss unterstützt 2 Diskettenlaufwerke
	IDE-Anschluss	x2	Jeder Anschluss unterstützt 2 IDE-Laufwerke
	SATA-Anschluss	x2	Jeder Anschluss unterstützt 1 SATA-Laufwerk
	Fronttafelanschluss	x1	Unterstützt die Fronttafelfunktionen
	Front-Audioanschluss	x1	Unterstützt die Fronttafel-Audioanschlussfunktion
	CD-IN-Anschluss	x1	Unterstützt die CD Audio-In-Funktion
	S/PDIF-Ausgangsanschluss	x1	Unterstützt die digitale Audioausgabefunktion
	CPU-Lüfter-Sockel	x1	CPU-Lüfterstromversorgungsanschluss (mit Smart Fan-Funktion)
	System-Lüfter-Sockel	x1	System-Lüfter-Stromversorgungsanschluss
	"CMOS löschen"-Sockel	x1	
	USB-Anschluss	x2	Jeder Anschluss unterstützt 2 Fronttafel-USB-Anschlüsse
	Stromanschluss (24-polig)	x1	
	Stromanschluss (4-polig)	x1	
Rückseiten-E/A	PS/2-Tastatur	x1	
	PS/2-Maus	x1	
	Serieller Anschluss	x1	
	Druckeranschluss	x1	
	VGA-Anschluss	x1	
	LAN-Anschluss	x1	
	USB-Anschluss	x4	
Platinengröße.	Audioanschluss	x3	
	190 mm (B) X 244 mm (L)		
OS-Unterstützung	Windows 2K / XP		Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

FRANCE

SPEC		
UC	LGA 775 Processeurs Intel Core2Duo/ Pentium 4 / Pentium D / Celeron D jusqu'à 3,8 GHz *It is recommended to use processors with 95W power consumption.	Prend en charge les technologies Hyper-Threading / d'exécution de bit de désactivation / Intel SpeedStep® optimisée/ d'architecture Intel 64 / de mémoire étendue 64
Bus frontal	533 / 800 / 1066 MHz	
Chipset	VIA P4M890 VIA VT8237A	
Graphiques	Intégré dans la chipset UniChrome Pro	Mémoire vidéo partagée maximale de 64 Mo
Super E/S	ITE 8712F Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches	Initiatives de contrôle environnementales, Moniteur de matériel Contrôleur de vitesse de ventilateur Fonction "Gardien intelligent" de l'ITE
Mémoire principale	Fentes DDR2 DIMM x 2 Prend en charge la DDR2 533 Chaque DIMM prend en charge des DDR2 de 256 Mo / 512 Mo / 1Go / 2 Go Capacité mémoire maximale de 4 Go	Module de mémoire DDR2 à mode à simple voie Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
IDE	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133	Prend en charge le mode PIO 0~4,
SATA	Contrôleur Serial ATA intégré : Taux de transfert jusqu'à 1.5 Go/s.	Conforme à la spécification SATA Version 1.0
LAN PHY	Realtek RTL 8201CL PHY	10 / 100 Mb/s négociation automatique Half / Full duplex capability
Codec audio	ALC861VD	Prise en charge de l'audio haute définition Sortie audio à 5.1 voies
Fentes	Fente PCI x2 Slot PCI Express x16 x1 Slot PCI Express x 1 x1	
Connecteur embarqué	Connecteur de disquette x1 Connecteur IDE x2	Chaque connecteur prend en charge 2 lecteurs de disquettes Chaque connecteur prend en charge 2 périphériques IDE

SPEC		
	Connecteur SATA	x2
	Connecteur du panneau avant	x1
	Connecteur Audio du panneau avantx1	x1
	Connecteur d'entrée CD	x1
	Connecteur de sortie S/PDIF	x1
	Embase de ventilateur UC	x1
	Embase de ventilateur système	x1
	Embase d'effacement CMOS	x1
	Connecteur USB	x2
	Connecteur d'alimentation (24 broches)	x1
	Connecteur d'alimentation (4 broches)	x1
E/S du panneau arrière	Clavier PS/2	x1
	Souris PS/2	x1
	Port série	x1
	Port d'imprimante	x1
	Port VGA	x1
	Port LAN	x1
	Port USB	x4
	Fiche audio	x3
Dimensions de la carte	190 mm (l) X 244 mm (H)	
Support SE	Windows 2K / XP	Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

ITALIAN

SPECIFICA		
CPU	LGA 775 Processore Intel Core2Duo/ Pentium 4 / Pentium D / Celeron D fino a 3.8 GHz *It is recommended to use processors with 95W power consumption.	Supporto di Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64
FSB	533 / 800 / 1066 MHz	
Chipset	VIA P4M890 VIA VT8237A	
Grafica	Integrata nel Chipset UniChrome Pro	La memoria video condivisa massima è di 64MB
Super I/O	ITE 8712F Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count)	Funzioni di controllo dell'ambiente: Monitoraggio hardware Controller velocità ventolina Funzione "Smart Guardian" di ITE
Memoria principale	Alloggi DIMM DDR 2 x 2 Supporto di DDR2 533 Ciascun DIMM supporta DDR2 256MB / 512MB / 1GB / 2GB Capacità massima della memoria 4GB	Modulo di memoria DDR2 a canale singolo DIMM registrati e DIMM ECC non sono supportati
IDE	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133	Supporto modalità PIO Mode 0-4
SATA	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 1.5 Gb/s.	Compatibile specifiche SATA Versione 1.0.
LAN PHY	Realtek RTL 8201CL PHY	Negoziazione automatica 10 / 100 Mb/s Capacità Half / Full Duplex
Codec audio	ALC861VD	Supporto audio High-Definition (HD) Uscita audio 5.1 canali
Alloggi	Alloggio PCI x2 Alloggio PCI Express x16 x1 Alloggio PCI Express x1 x1	

SPECIFICA			
Connettori su scheda	Connettore floppy	x1	Ciascun connettore supporta 2 unità Floppy
	Connettore IDE	x2	Ciascun connettore supporta 2 unità IDE
	Connettore SATA	x2	Ciascun connettore supporta 1 unità SATA
	Connettore pannello frontale	x1	Supporta i servizi del pannello frontale
	Connettore audio frontale	x1	Supporta la funzione audio pannello frontale
	Connettore CD-in	x1	Supporta la funzione input audio CD
	Connettore output SPDIF	x1	Supporta la funzione d'output audio digitale
	Collettore ventolina CPU	x1	Alimentazione ventolina CPU (con funzione Smart Fan)
	Collettore ventolina sistema	x1	Alimentazione ventolina di sistema
	Collettore cancellazione CMOS	x1	
I/O pannello posteriore	Connettore USB	x2	Ciascun connettore supporta 2 porte USB pannello frontale
	Connettore alimentazione (24 pin)	x1	
	Connettore alimentazione (4 pin)	x1	
	Tastiera PS/2	x1	
	Mouse PS/2	x1	
	Porta seriale	x1	
	Porta stampante	x1	
	Porta VGA	x1	
Dimensioni i scheda	Porta LAN	x1	
	Porta USB	x4	
	Connettore audio	x3	
	190 mm (larghezza) x 244 mm (altezza)		
Sistemi operativi supportati	Windows 2K / XP		Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

Especificación		
CPU	LGA 775 Procesador Intel Core2Duo/ Pentium 4 / Pentium D / Celeron D hasta 3,8 GHz *It is recommended to use processors with 95W power consumption.	Admite Hyper-Threading / Bit de deshabilitación de ejecución / Intel SpeedStep® Mejorado / Intel Architecture-64 / Tecnología Extended Memory 64
FSB	533 / 800 / 1066 MHz	
Conjunto de chips	VIA P4M890 VIA VT8237A	
Gráficos	Integrados en el conjunto de chips UniChrome Pro	Memoria máxima de vídeo compartida de 64MB
Súper E/S	ITE 8712F Le ofrece las funcionalidades heredadas de uso más común Súper E/S. Interfaz de cuenta Low Pin	Iniciativas de control de entorno, Monitor hardware Controlador de velocidad de ventilador Función "Guardia inteligente" de ITE
Memoria principal	Ranuras DIMM DDR 2 x 2 Admite DDR2 de 533 Cada DIMM admite DDR de 256MB / 512MB / 1GB / 2GB Capacidad máxima de memoria de 4GB	Módulo de memoria DDR2 de canal Sencillo No admite DIMM registrados o DIMM compatibles con ECC
IDE	Controlador IDE integrado Modo bus maestro Ultra DMA 33 / 66 / 100 / 133	Soporte los Modos PIO 0~4,
SATA	Controlador ATA Serie Integrado Tasas de transferencia de hasta 1.5 Gb/s.	Compatible con la versión SATA 1.0.
Red Local	Realtek RTL 8201CL PHY	Negociación de 10 / 100 Mb/s Funciones Half / Full dúplex
Códecs de sonido	ALC861VD	Soporte de sonido de Alta Definición Salida de sonido de 5.1 canales
Ranuras	Ranura PCI X2 Ranura PCI Express x16 X1 Ranura PCI express x 1 X1	

Especificación			
Conectores en placa	Conector disco flexible	X1	Cada conector soporta 2 unidades de disco flexible
	Conector IDE	X2	Cada conector soporta 2 dispositivos IDE
	Conector SATA	X2	Cada conector soporta 1 dispositivos SATA
	Conector de panel frontal	X1	Soporta instalaciones en el panel frontal
	Conector de sonido frontal	X1	Soporta funciones de sonido en el panel frontal
	Conector de entrada de CD	X1	Soporta función de entrada de sonido de CD
	Conector de salida S/PDIF	X1	Soporta función de salida de sonido digital
	Cabecera de ventilador de CPU	X1	Fuente de alimentación de ventilador de CPU (con función Smart Fan)
	Cabecera de ventilador de sistema	X1	Fuente de alimentación de ventilador de sistema
	Cabecera de borrado de CMOS	X1	
	Conector USB	X2	Cada conector soporta 2 puertos USB frontales
	Conector de alimentación (24 patillas)	X1	
	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Teclado PS/2	X1	
	Ratón PS/2	X1	
	Puerto serie	X1	
	Puerto de impresora	X1	
	Puerto VGA	X1	
	Puerto de red local	X1	
	Puerto USB	X4	
	Conector de sonido	X3	
Tamaño de la placa	190mm. (A) X 244 Mm. (H)		
Soporte de sistema operativo	Windows 2K / XP		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

PORTUGUESE

ESPECIFICAÇÕES		
CPU	LGA 775 Processador Intel Core2Duo/ Pentium 4 / Pentium D / Celeron D até 3,8 GHz *It is recommended to use processors with 95W power consumption.	Suporta as tecnologias Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture - 64 / Extended Memory 64
FSB	533 / 800 / 1066 MHz	
Chipset	VIA P4M890 VIA VT8237A	
Placa gráfica	Integrada no chipset UniChrome Pro	Memória de vídeo máxima partilhada: 64 MB
Especificação Super I/O	ITE 8712F Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count).	Iniciativas para controlo do ambiente Monitorização do hardware Controlador da velocidade da ventoinha Função "Smart Guardian" da ITE
Memória principal	Ranuras DIMM DDR2 x 2 Suporta módulos DDR2 533 Cada módulo DIMM suporta uma memória DDR2 de 256MB / 512 MB / 1 GB / 2GB Capacidade máxima de memória: 4 GB	Módulo de memória DDR2 de canal simples Os módulos DIMM registados e os DIMM ECC não são suportados
IDE	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 / 133	Suporta o modo PIO 0~4,
SATA	Controlador Serial ATA integrado Velocidades de transmissão de dados até 1.5 Gb/s.	Compatibilidade com a especificação SATA versão 1.0.
LAN PHY	Realtek RTL 8201CL PHY	Auto negociação de 10 / 100 MB/s Capacidade semi/full-duplex
Codec de som	ALC861VD	Suporta a especificação High-Definition Audio Saída de áudio de 5.1 canais
Ranuras	Ranhura PCI x2 Ranhura PCI Express x16 x1 Ranhura PCI Express x1 x1	

ESPECIFICAÇÕES		
Conectores na placa	Conector da unidade de disquetes	x1 Cada conector suporta 2 unidades de disquetes
	Conector IDE	x2 Cada conector suporta 2 dispositivos IDE
	Conector SATA	x2 Cada conector suporta 1 dispositivo SATA
	Conector do painel frontal	x1 Para suporte de várias funções no painel frontal
	Conector de áudio frontal	x1 Suporta a função de áudio no painel frontal
	Conector para entrada de CDs	x1 Suporta a entrada de áudio a partir de CDs
	Conector de saída S/PDIF	x1 Suporta a saída de áudio digital
	Conector da ventoinha da CPU	x1 Alimentação da ventoinha da CPU (com a função Smart Fan)
	Conector da ventoinha do sistema	x1 Alimentação da ventoinha do sistema
	Conector para limpeza do CMOS	x1
Entradas/Saídas no painel traseiro	Conector USB	x2 Cada conector suporta 2 portas USB no painel frontal
	Conector de alimentação (24 pinos)	x1
	Conector de alimentação (4 pinos)	x1
	Teclado PS/2	x1
	Rato PS/2	x1
	Porta série	x1
	Porta para impressora	x1
	Porta VGA	x1
	Porta LAN	x1
	Porta USB	x4
	Tomada de áudio	x3
Tamanho da placa	190 mm (L) X 244 mm (A)	
Sistemas operativos suportados	Windows 2K / XP	A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.

POLISH

SPEC		
Procesor	LGA 775 Procesor Intel Core 2Duo/ Pentium 4 / Pentium D / Celeron D do 3,8 GHz *It is recommended to use processors with 95W power consumption.	Obsługa Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology
FSB	533 / 800 / 1066 MHz	
Chipset	VIA P4M890 VIA VT8237A	
Grafika	Zintegrowana w chipsecie UniChrome Pro	Maks. wielkość współdzielonej pamięci video wynosi 64MB
Pamięć główna	Gniazda DDR2 DIMM x 2 Obsługa DDR2 533 Każde gniazdo DIMM obsługuje moduły 256MB / 512MB / 1GB / 2GB DDR2 Maks. wielkość pamięci 4GB	Moduł pamięci DDR2 z trybem pojedynczego kanału Brak obsługi Registered DIMM oraz ECC DIMM
Super I/O	ITE 8712F Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count	Funkcje kontroli warunków pracy, Monitor H/W Kontroler prędkości wentylatora Funkcja ITE "Smart Guardian"
IDE	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master	obsługa PIO tryb 0~4,
SATA	Zintegrowany kontroler Serial ATA Transfer danych do 1.5 Gb/s.	Zgodność ze specyfikacją SATA w wersji 1.0.
LAN PHY	Realtek RTL 8201CL PHY	10 / 100 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego dupleksu
Kodek dźwiękowy	ALC861VD	Obsługa High-Definition Audio 5.1 kanałowe wyjście audio
Gniazda	Gniazdo PCI x2 Gniazdo PCI Express x16 x1 Gniazdo PCI Express x1 x1	

SPEC			
Złącza wbudowane	Złącze napędu dyskietek	x1	Każde złącze obsługuje 2 napędy dyskietek
	Złącze IDE	x2	Każde złącze obsługuje 2 urządzenia IDE
	Złącze SATA	x2	Każde złącze obsługuje 1 urządzenie SATA
	Złącze panela przedniego	x1	Obsługa elementów panela przedniego
	Przednie złącze audio	x1	Obsługa funkcji audio na panelu przednim
	Złącze wejścia CD	x1	Obsługa funkcji wejścia audio CD
	Złącze wyjścia S/PDIF	x1	Obsługa funkcji cyfrowego wyjścia audio
	Złącze główkowe wentylatora procesora	x1	Zasilanie wentylatora procesora (z funkcją Smart Fan)
	Złącze główkowe wentylatora systemowego	x1	Zasilanie wentylatora systemowego
	Złącze główkowe kasowania CMOS	x1	
Back Panel I/O	Złącze USB	x2	Każde złącze obsługuje 2 porty USB na panelu przednim
	Złącze zasilania (24 pinowe)	x1	
	Złącze zasilania (4 pinowe)	x1	
	Klawiatura PS/2	x1	
	Mysz PS/2	x1	
	Port szeregowy	x1	
	Port drukarki	x1	
Wymiary płyty	Port VGA	x1	
	Port LAN	x1	
	Port USB	x4	
	Gniazdo audio	x3	
Obsługa systemu operacyjnego	Windows 2K / XP		Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

RUSSIAN

СПЕЦ.		
CPU (центральный процессор)	LGA 775 Процессор Intel Core2Duo/ Pentium 4 / Pentium D / Celeron D до 3.8 ГГц *It is recommended to use processors with 95W power consumption.	Поддержка технологий Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology
FSB	533 / 800 / 1066 МГц	
Набор микросхем	VIA P4M890 VIA VT8237A	
Графика	Встроенная в набор микросхем UniChrome Pro	Максимальная совместно используемая видео память составляет 64 МБ
Основная память	Слоты DDR2 DIMM x 2 Поддержка DDR2 533 Каждый модуль DIMM поддерживает 256МБ / 512МБ / 1ГБ / 2ГБ DDR2 Максимальная ёмкость памяти 4 ГБ	Модуль памяти с одноканальным режимом DDR2 Не поддерживает зарегистрированные модули DIMM and ECC DIMM
Super I/O	ITE 8712F Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов	Инициативы по охране окружающей среды, Аппаратный монитор Регулятор скорости Функция ITE "Smart Guardian" (Интеллектуальная защита)
IDE	Встроенное устройство управления встроенными интерфейсами устройств	Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,
SATA	Встроенное последовательное устройство управления ATA	скорость передачи данных до 1.5 гигабит/с. Соответствие спецификации SATA версия 1.0.
Локальная сеть	Realtek RTL 8201CL PHY	Автоматическое согласование 10 / 100 Мб/с Частичная / полная дуплексная способность
Звуковой кодек	ALC861VD	Звуковая поддержка High-Definition 5.1-канальный звуковой выход
Слоты	Слот PCI x2 Слот PCI Express x16 x1 Слот PCI Express x1 x1	

СПЕЦ.		
Встроенный разъем	Разъем НГМД	Каждый разъем поддерживает 2 накопителя на гибких магнитных дисках
	Разъем IDE	Каждый разъем поддерживает 2 встроенных интерфейса накопителей
	Разъем SATA	Каждый разъем поддерживает 1 устройство SATA
	Разъем на лицевой панели	Поддержка устройств на лицевой панели
	Входной звуковой разъем	Поддержка звуковых функций на лицевой панели
	Разъем ввода для CD	Поддержка функции ввода для CD
	Разъем вывода для S/PDIF	Поддержка вывода цифровой звуковой функции
	Контактирующее приспособление вентилятора центрального процессора	Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора)
	Контактирующее приспособление вентилятора системы	Источник питания для вентилятора системы
	Открытое контактирующее приспособление CMOS	
	USB-разъем	Каждый разъем поддерживает 2 USB-порта на лицевой панели
	Разъем питания (24 вывод)	
	Разъем питания (4 вывод)	
Задняя панель средств ввода-вывода	Клавиатура PS/2	
	Мышь PS/2	
	Последовательный порт	
	Порт подключения принтера	
	Порт VGA	
	Порт LAN	
	USB-порт	
Размер панели	Гнездо для подключения наушников	
	190 мм (Ш) X 244 мм (В)	
Поддержка OS	Windows 2K / XP	Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.

ARABIC

الوصف		
وحدة المعالجة المركزية	LGA 775 Intel Core2Duo/ Pentium 4 / Pentium D / Celeron D 8.3 جيجا هرتز *It is recommended to use processors with 95W power consumption.	Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Extended Memory 64 Technology
الناقل الأمامي الجانبى	ميغا هرتز 533 / 800 / 1066 تردد	
مجموعة الشرائح	VIA P4M890 VIA VT8237A	
بطاقة الرسوميات	UniChrome Pro مدمجة في رقائق	ميغا بايت 64 أقصى سعة ذاكرة الفيديو المشتركة
الذاكرة الرئيسية	فتحة DDR2 DIMM عدد 4 ميغا بايت 533 سعات DDR2 تدعم الذاكرة من نوع سعة DDR2 تدعم ذاكرة من نوع DIMM تدعم كل فتحة أحادية القناة DDR2 وحدة ذاكرة ECC المسجلة وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة ميغا بايت 1 جيجا بايت 2 / 512 / ميغا بايت 256 جيجا بايت سعة ذاكرة قصوى 4 جيجا بايت	
Super I/O	ITE 8712F الأكثر استخداماً. Super I/O توفر وظيفة Low Pin Count Interface تدعم تقنية	وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجزاء مراقب في سرعة المروحة ITE من "Smart Guardian" وظيفة
منفذ IDE	متكامل IDE متحكم Ultra DMA 33 / 66 / 100 / 133 وضع رئيسي	PIO Mode 0~4 دعم وضع
SATA	متكامل Serial ATA متحكم نقل البيانات بسرعات تصل إلى 1.5 جيجا بايت/ثانية.	1.0 الإصدار SATA مطابقة لمواصفات
شبكة داخلية	Realtek RTL 8201CL PHY	تفاوض تلقائي 10/100 ميغا بايت / ثنائية إمكانية النقل المزدوج الكامل/النصفي
كوديك الصوت	ALC861VD	تدعم تقنية الصوت علي التعريف من 5.1 قنوات لخرج الصوت
الفتحات	فتحة PCI عدد 2 فتحة PCI Express x16 عدد 1 فتحة PCI Express x1 عدد 1	

المواصفات			
يدعم محرك الأقراص المرنة	عدد 1	مقذ محرك أقراص مرنة	المنافذ على سطح اللوحة
IDE يدعم كل منفذ اثنين من أجهزة	عدد 2	مقذ IDE	
SATA يدعم كل منفذ واحد من أجهزة	عدد 2	مقذ SATA	
يدعم تجهيزات اللوحة الأمامية	عدد 1	مقذ اللوحة الأمامية	
يدعم وظيفة الصوت باللوحة الأمامية	عدد 1	مقذ الصوت الأمامي	
يدعم وظيفة دخل صوت القرص المدمج	عدد 1	مقذ CD-IN	
يدعم وظيفة خرج الصوت الرقمي	عدد 1	مقذ خرج S/PDIF	
Smart Fan(لتوصيل الطاقة لمروحة وحدة المعالجة (مع وظيفة	عدد 1	وصلة مروحة وحدة المعالجة المركزية	
لتوصيل الطاقة لمروحة النظام	عدد 1	وصلة مروحة للنظم	
	عدد 1	وصلة مسح CMOS	
باللوحة الأمامية USB يدعم كل منفذ فتحتي	عدد 2	مقذ USB	
	عدد 1	مقذ توصيل الطاقة (24-بوس)	
	عدد 1	مقذ توصيل الطاقة (4-بيليس)	
	عدد 1	لوحة مفتاح PS/2	منافذ دخل/خرج اللوحة الخلفية
	عدد 1	ملس PS/2	
	عدد 1	مقذ تسلسلي	
	عدد 1	مقذ طابعة	
	عدد 1	مقذ VGA	
	عدد 1	مقذ شبكة تصل محلية	
	عدد 4	منافذ USB	
	عدد 3	مقيس صوت	حجم اللوحة
		190 مم (عرض) X 244 مم (ارتفاع)	
بحقها في إضافة أو إزالة الدعم لأي نظام تشغيل Biostar تحتفظ		Windows 2K / XP	دعم أنظمة التشغيل
بإخطار أو بدون إخطار .			

JAPANESE

仕様		
CPU	LGA 775 Intel Core2Duo/ Pentium 4/ Pentium D / Celeron D processor up to 3.8 GHz *It is recommended to use processors with 95W power consumption.	Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology をサポートします
FSB	533 / 800 / 1066 MHz	
チップセット	VIA P4M890 VIA VT8237A	
グラフィックス	UniChrome Pro チップセットに統合	最大の共有ビデオメモリは64MBです
メインメモリ	DDR2 DIMMスロット x 2 DDR2 533をサポート 各DIMMは 256/ 512MB/1GB/ 2GB DDR2をサポート 最大メモリ容量4GB	シングル チャンネルモードDDR2メモリモジュール 登録済みDIMMとECC DIMMはサポートされません
Super I/O	ITE 8712F もっとも一般に使用されるレガシー Super I/O機能を採用しています。 低ピンカウントインターフェイス	環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能
IDE	統合IDEコントローラ Ultra DMA 33 / 66 / 100 / 133バスマスタモード	PIO Mode 0~4のサポート、
SATA	統合シリアルATAコントローラ 最高1.5 Gb/秒のデータ転送速度	SATAバージョン1.0仕様に準拠。
LAN PHY	Realtek RTL 8201CL PHY	10 / 100 Mb/秒のオートネゴシエーション 半/全二重機能
サウンドCodec	ALC861VD	ハイデフィニションオーディオのサポート 5.1 チャンネルオーディオアウト
スロット	PCIスロット x2 PCI Express x16スロット x1 PCI Express x1スロット x1	

仕様			
オンボード コネクタ	フロッピーコネクタ	x1	各コネクタは2つのフロッピードライブをサポートします
	IDEコネクタ	x2	各コネクタは2つのIDEデバイスをサポートします
	SATAコネクタ	x2	各コネクタは1つのSATAデバイスをサポートします
	フロントパネルコネクタ	x1	フロントパネル機能をサポートします
	フロントオーディオコネクタ	x1	フロントパネルオーディオ機能をサポートします
	CDインコネクタ	x1	CDオーディオイン機能をサポートします
	S/PDIFアウトコネクタ	x1	デジタルオーディオアウト機能をサポートします
	CPUファンヘッダ	x1	CPUファン電源装置(スマートファン機能を搭載)
	システムファンヘッダ	x1	システムファン電源装置
	CMOS クリアヘッダ	x1	
	USBコネクタ	x2	各コネクタは2つのフロントパネルUSBポートをサポートします
	電源コネクタ(24ピン)	x1	
	電源コネクタ(4ピン)	x1	
背面パネル I/O	PS/2キーボード	x1	
	PS/2マウス	x1	
	シリアルポート	x1	
	プリンタポート	x1	
	VGAポート	x1	
	LANポート	x1	
	USBポート	x4	
	オーディオジャック	x3	
ボードサイズ	190 mm (幅) X 244 mm (高さ)		
OSサポート	Windows 2K / XP		Biostarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。

2007/04/11