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## Table of Contents

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<b>Chapter 1: Introduction</b> .....	<b>1</b>
<b>1.1 Before You Start</b> .....	1
<b>1.2 Package Checklist</b> .....	1
<b>1.3 Motherboard Features</b> .....	2
<b>1.4 Rear Panel Connectors</b> .....	3
<b>1.5 Motherboard Layout</b> .....	4
<b>Chapter 2: Hardware Installation</b> .....	<b>5</b>
<b>2.1 Installing Central Processing Unit (CPU)</b> .....	5
<b>2.2 FAN Headers</b> .....	7
<b>2.3 Installing System Memory</b> .....	8
<b>2.4 Connectors and Slots</b> .....	10
<b>Chapter 3: Headers &amp; Jumpers Setup</b> .....	<b>14</b>
<b>3.1 How to Setup Jumpers</b> .....	14
<b>3.2 Detail Settings</b> .....	14
<b>Chapter 4: Useful Help</b> .....	<b>19</b>
<b>4.1 Driver Installation Note</b> .....	19
<b>4.2 Software</b> .....	20
<b>4.3 Extra Information</b> .....	24
<b>4.4 AMI BIOS Beep Code</b> .....	26
<b>4.5 Troubleshooting</b> .....	27
<b>Appendix: SPEC In Other Languages</b> .....	<b>28</b>
<b>German</b> .....	28
<b>French</b> .....	30
<b>Italian</b> .....	32
<b>Spanish</b> .....	34
<b>Portuguese</b> .....	36
<b>Polish</b> .....	38
<b>Russian</b> .....	40
<b>Arabic</b> .....	42
<b>Japanese</b> .....	44

## **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.
- The operating temperatures of the computer should be 0 to 45 degrees Celsius.

### **1.2 PACKAGE CHECKLIST**

- ✚ HDD Cable X 1 (P43B-A7 Only)
- ✚ Serial ATA Cable X 1
- ✚ Rear I/O Panel for ATX Case X 1
- ✚ User's Manual X 1
- ✚ Fully Setup Driver CD X 1
- ✚ FDD Cable X 1 (optional)
- ✚ USB 2.0 Cable X1 (optional)
- ✚ Serial ATA Power Cable X 1 (optional)

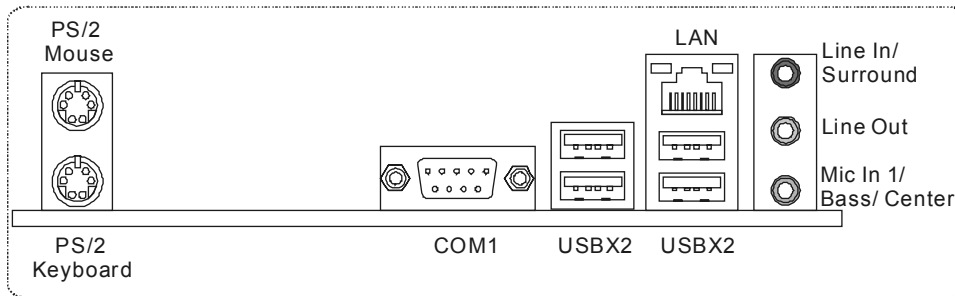
**Note:** The package contents may be different due to area or your motherboard version.

### 1.3 MOTHERBOARD FEATURES

SPEC			
CPU	LGA 775 Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx processor (Maximum Watt: 125W)		Supports Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology
FSB	800 / 1066 / 1333 / 1600 MHz (OC) MHz		
Chipset	Intel P43 Intel ICH10		
Super I/O	ITE 8718F Provides the most commonly used legacy Super I/O functionality. Low Pin Count Interface		Environment Control initiatives, Hardware Monitor Controller Fan Speed Controller ITE's "Smart Guardian" function
Main Memory	DIMM Slots x 2 Each DIMM supports 256MB / 512MB / 1GB / 2GB / 4GB DDR2 Max Memory Capacity 8GB		Dual Channel Mode DDR2 memory module Supports DDR2 800/667 Registered DIMM and ECC DIMM is not supported
IDE	Integrated IDE Controller (P43B-A7 Only)		Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4
SATA 2	Integrated Serial ATA Controller		Data transfer rates up to 3.0 Gb/s. SATA Version 2.0 specification compliant
LAN	Realtek RTL8111DL		10 / 100 Mb/s / 1Gb/s auto negotiation Half / Full duplex capability
Sound Codec	ALC662		5.1 channels audio out High Definition Audio
Slots	PCI Express Gen2 x16 Slot	x1	Supports PCI-E Gen2 x16 expansion cards
	PCI Express x1 Slot	x2	Supports PCI-E x1 expansion cards
	PCI Slot	x3	Supports PCI expansion cards
On Board Connectors	Floppy Connector	x1	Each connector supports 2 Floppy drives
	Printer Port Connector	x1	Each connector supports 1 Printer port
	IDE Connector (P43B-A7 Only)	x1	Each connector supports 2 IDE device
	SATA Connector	x4	Each connector supports 1 SATA devices
	Front Panel Connector	x1	Supports front panel facilities

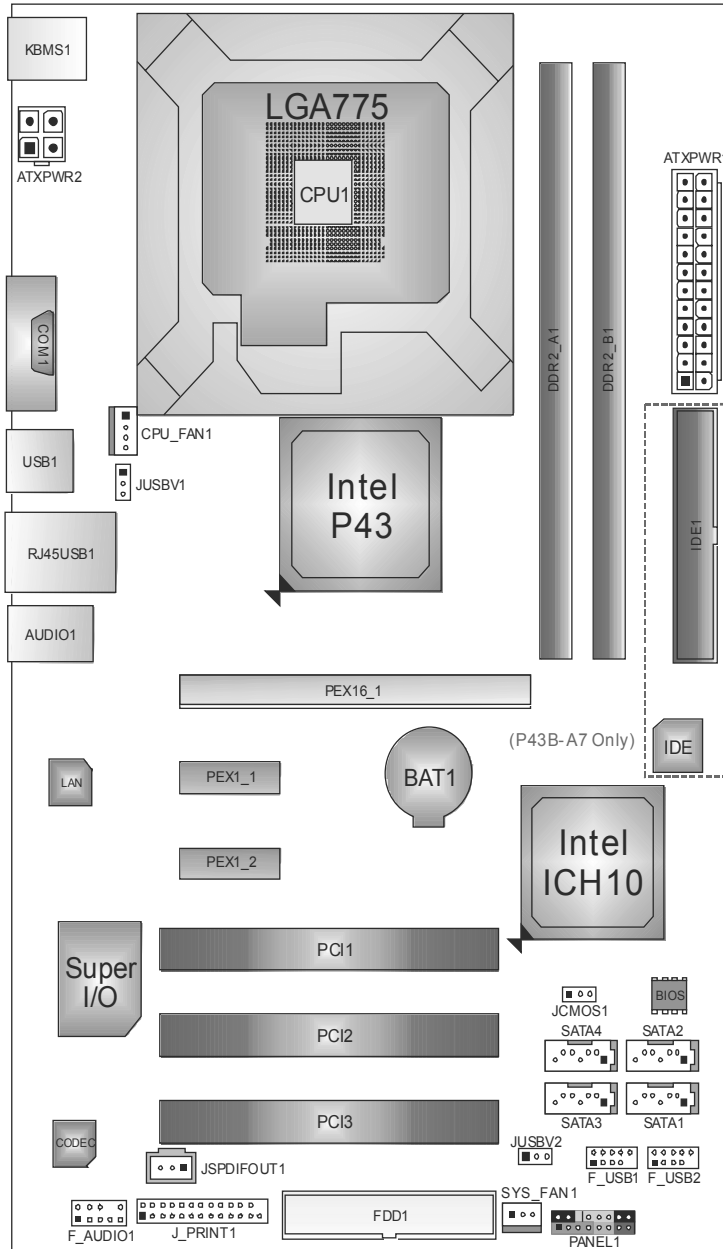
SPEC			
	Front Audio Connector	x1	Supports front panel audio function
	S/PDIF out Connector	x1	Supports digital audio out function
	CPU Fan Header	x1	CPU Fan power supply (with Smart Fan function)
	System Fan Header	x1	System Fan Power supply
	Clear CMOS Header	x1	Restore CMOS data to factory default
	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
Back Panel I/O	PS/2 Keyboard	x1	Connects to PS/2 Keyboard
	PS/2 Mouse	x1	Connects to PS/2 Mouse
	Serial Port	x1	Connects to RS-232 Port
	LAN port	x1	Connect to RJ-45 ethernet cable
	USB Port	x4	Connect to USB devices
	Audio Jack	x3	Provide Audio-In/Out and microphone connection
Board Size	182(W) x 295 (L) mm		
OS Support	Windows 2000 / XP / Vista 32 / Vista 64		Biostar reserves the right to add or remove support for any OS with or without notice

### 1.4 REAR PANEL CONNECTORS



Since the audio chip supports High Definition Audio Specification, the function of each audio jack can be defined by software. The input / output function of each audio jack listed above represents the default setting. However, when connecting external microphone to the audio port, please use the Line In (blue) and Mic In (Pink) audio jack.

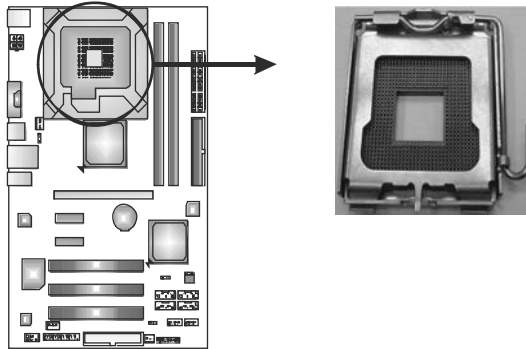
## 1.5 MOTHERBOARD LAYOUT



**Note:** ■ represents the 1<sup>st</sup> pin.

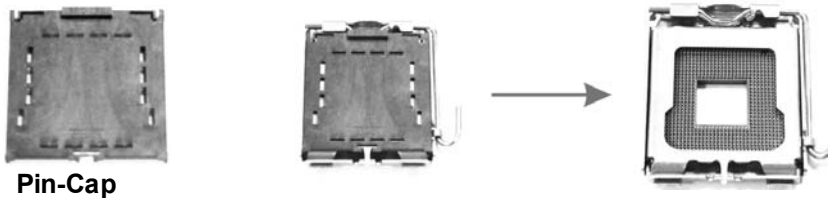
## **CHAPTER 2: HARDWARE INSTALLATION**

### **2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)**



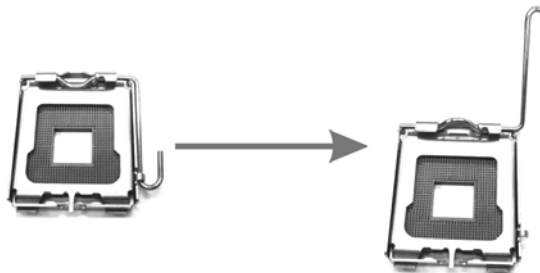
*Special Notice:*

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.



**Pin-Cap**

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

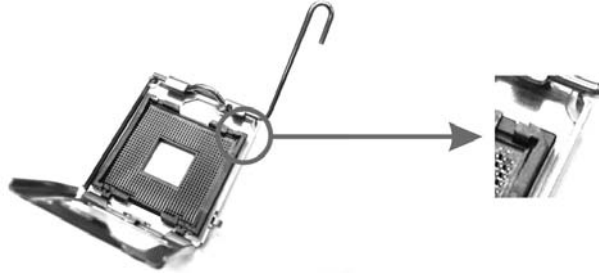


## Motherboard Manual

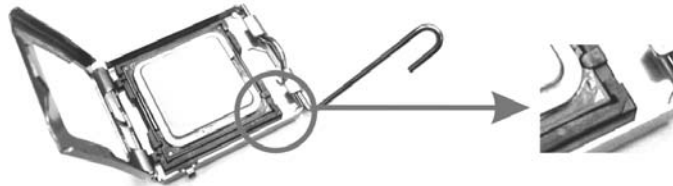
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**Step 2:** Look for the triangular cut edge on socket, and the golden dot on CPU should point forwards this triangular cut edge. The CPU will fit only in the correct orientation.

*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.



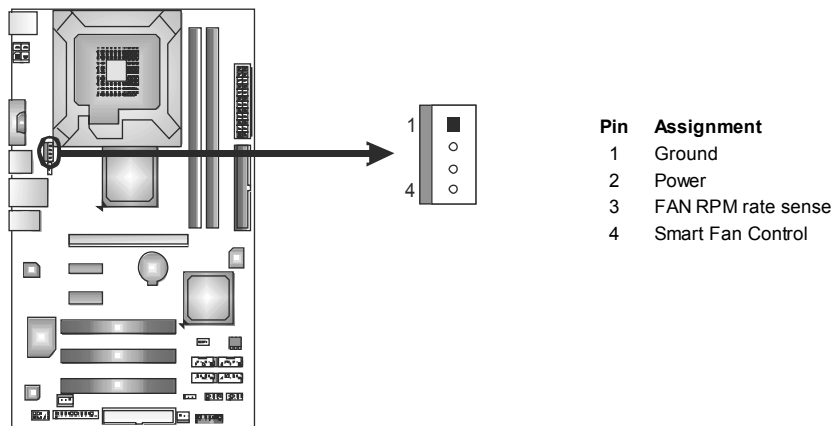
**Step 4:** Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the CPU\_FAN1. This completes the installation.



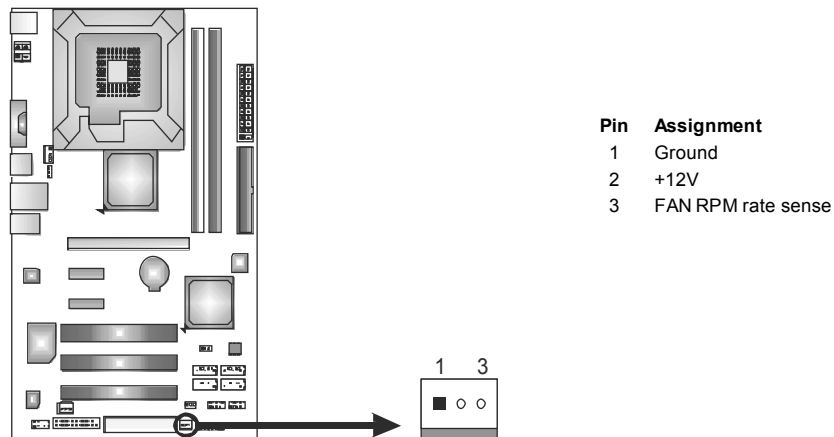
## 2.2 FAN HEADERS

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

### CPU\_FAN1: CPU Fan Header



### SYS\_FAN1: System Fan Header

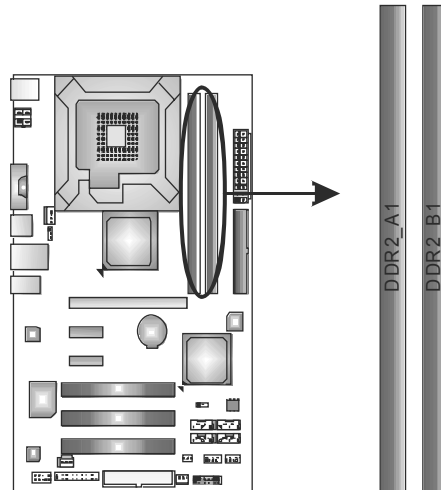


**Note:**

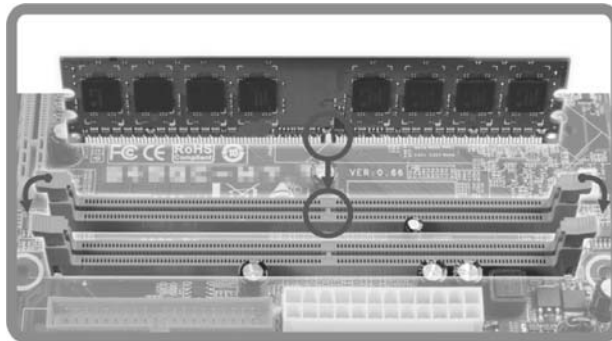
CPU\_FAN1 supports 4-pin head connector; SYS\_FAN1, 3-pin head one. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

## 2.3 INSTALLING SYSTEM MEMORY

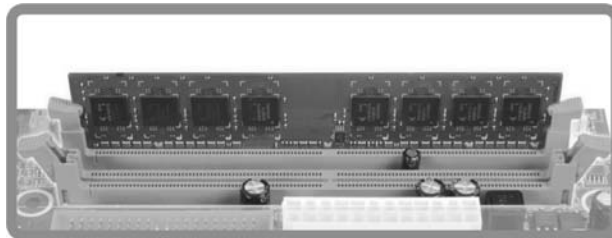
### A. DDR2 module



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	DDR2 Module	Total Memory Size
DDR2_A1	256MB/512MB/1GB/2GB/4GB	Max is 8GB.
DDR2_B1	256MB/512MB/1GB/2GB/4GB	

**C. Dual Channel Memory Installation**

Please refer to the following requirements to activate Dual Channel function:

Install memory module of the same density in pairs, shown in the table.

Dual Channel Status	DDR2_A1	DDR2_B1
Disabled	O	X
Disabled	X	O
Enabled	O	O

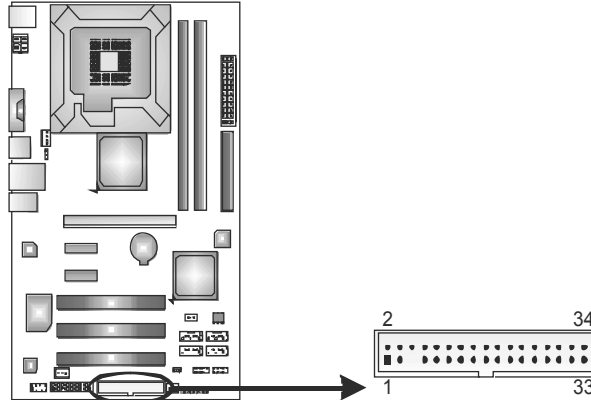
(O means memory installed; X, not installed.)

The DRAM bus width of the memory module must be the same(x8 or x16)

## 2.4 CONNECTORS AND SLOTS

### FDD1: Floppy Disk Connector

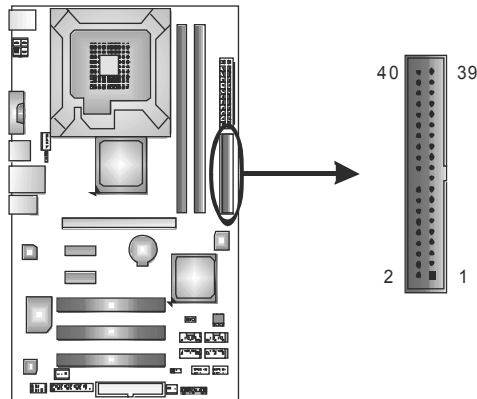
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



### IDE1: Hard Disk Connector (P43B-A7 Only)

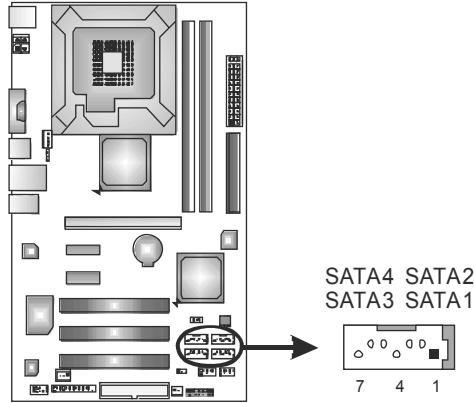
The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/66/100 functionality.

The IDE connector can connect a master and a slave drive, so you can connect up to two drives.



**SATA1~SATA4: Serial ATA Connectors**

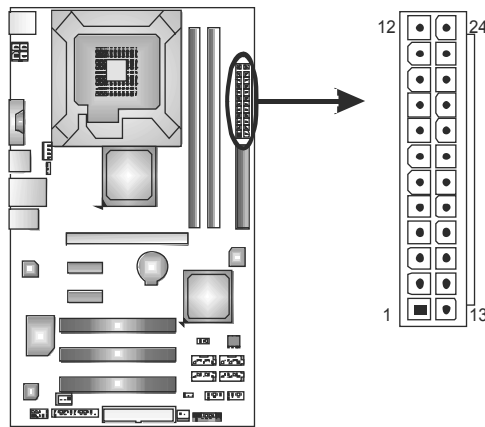
The motherboard has a PCI to SATA Controller with 4channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3Gb/s.



Pin	Assignment
1	Ground
2	TX+
3	TX-
4	Ground
5	RX-
6	RX+
7	Ground

**ATXPWR1: ATX Power Source Connector**

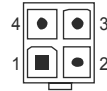
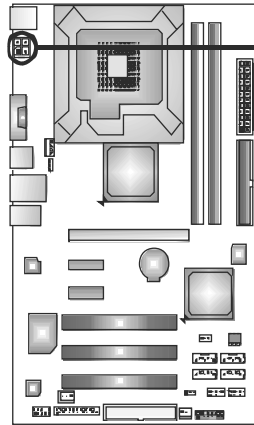
This connector allows user to connect 24-pin power connector on the ATX power supply.



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

### ATXPWR2: ATX Power Source Connector

Connecting this connector provides +12V to CPU power circuit.



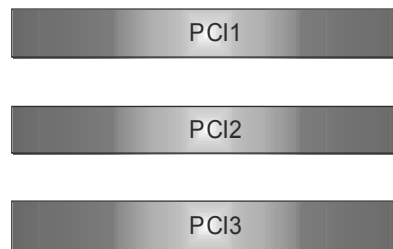
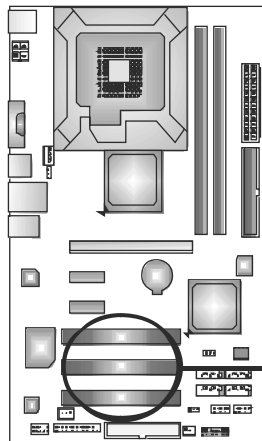
Pin	Assignment
1	+12V
2	+12V
3	Ground
4	Ground

**Note:**

Before you power on the system, please make sure that both ATXPWR1 and ATXPWR2 connectors have been plugged-in.

### PCI1~PCI3: 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.

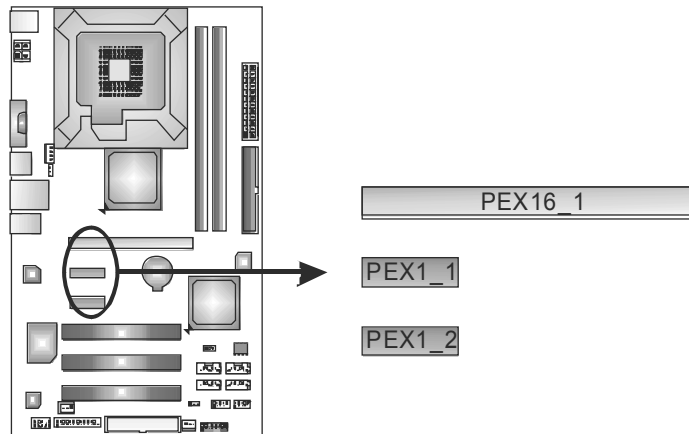


**PEX16\_1: PCI-Express Gen2 x16 Slot**

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s simultaneously per direction, for an aggregate of 16GB/s totally.
- PCI-Express Gen2 supports a raw bit-rate of 5.0Gb/s on the data pins.
- 2X bandwidth over the PCI-Express 1.1 architecture.

**PEX1\_1/PEX1\_2: PCI-Express x1 Slot**

- PCI-Express 1.1 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 PCI architecture.



## 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”.



Pin opened



Pin closed

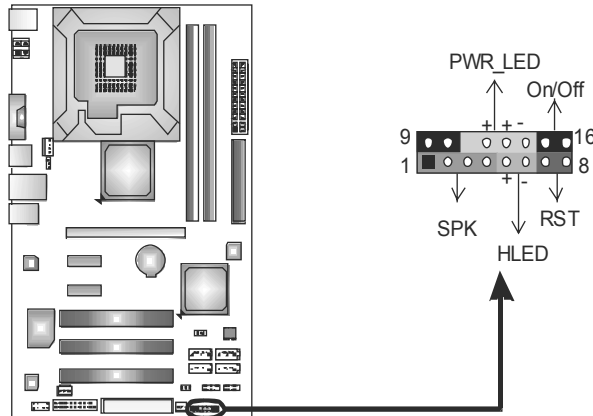


Pin1-2 closed

### 3.2 DETAIL SETTINGS

#### PANEL1: Front Panel Header

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

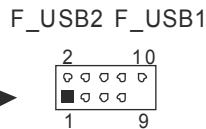
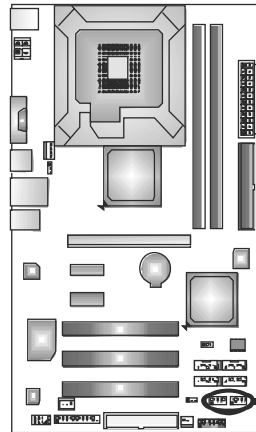


Pin	Assignment	Function	Pin	Assignment	Function
1	+5V		9	N/A	N/A
2	N/A	Speaker Connector	10	N/A	N/A
3	N/A		11	N/A	N/A
4	Speaker		12	Power LED (+)	Power LED
5	HDD LED (+)	13	Power LED (+)		
6	HDD LED (-)	14	Power LED (-)		
7	Ground	Reset button	15	Power button	Power-on button
8	Reset control		16	Ground	



**F\_USB1/F\_USB2: Headers for USB 2.0 Ports at Front Panel**

This motherboard provides 2 USB 2.0 headers, which 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.



Pin	Assignment
1	+5V (fused)
2	+5V (fused)
3	USB-
4	USB-
5	USB+
6	USB+
7	Ground
8	Ground
9	Key
10	NC

**JUSBV1/JUSBV2: Power Source Headers for USB Ports**

*Pin 1-2 Close:*

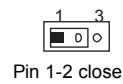
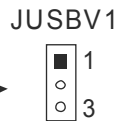
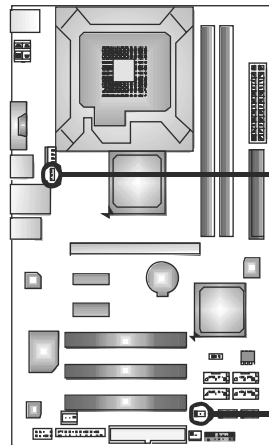
JUSBV1: +5V for USB ports at USB1/RJ45USB1.

JUSBV2: +5V for USB ports at F\_USB1/F\_USB2.

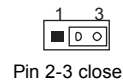
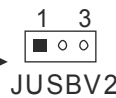
*Pin 2-3 Close:*

JUSBV1: +5V STB for USB ports at USB1/RJ45USB1.

JUSBV2: +5V STB for USB ports at F\_USB1/F\_USB2.



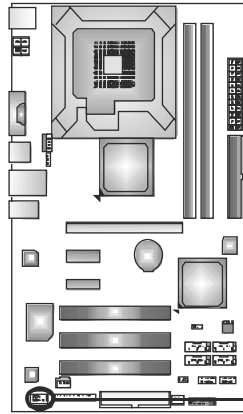
Pin 1-2 close



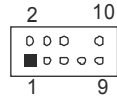
Pin 2-3 close

### F\_AUDIO1: Front Panel Audio Header

This header allows user to connect the front audio output cable with the PC front panel. This header allows only HD audio front panel connector, not AC'97.

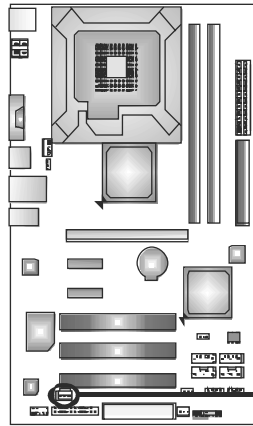


Pin	Assignment
1	Mic Left in
2	Ground
3	Mic Right in
4	GPIO
5	Right line in
6	Jack Sense
7	Front Sense
8	Key
9	Left line in
10	Jack Sense

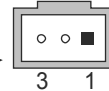


### JSPDIFOUT1: Digital Audio-out Connector

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

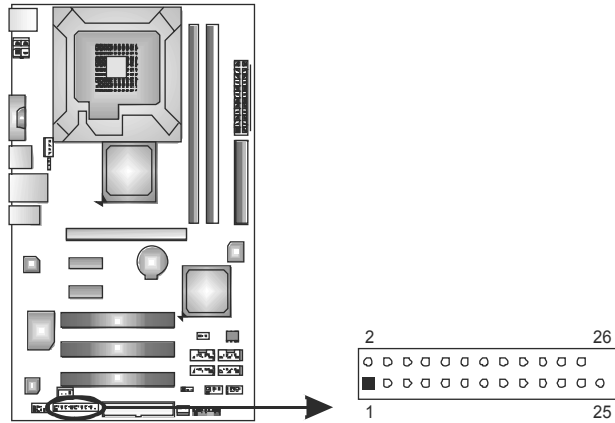


Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground



**J\_PRINT1: Printer Port Connector**

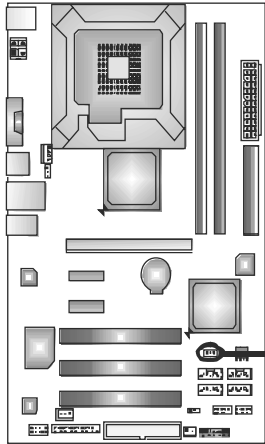
This header allows you to connector printer on the PC.



Pin	Assignment	Pin	Assignment
1	-Strobe	14	Ground
2	-ALF	15	Data 6
3	Data 0	16	Ground
4	-Error	17	Data 7
5	Data 1	18	Ground
6	-Init	19	-ACK
7	Data 2	20	Ground
8	-Sctlin	21	Busy
9	Data 3	22	Ground
10	Ground	23	PE
11	Data 4	24	Ground
12	Ground	25	SCLT
13	Data 5	26	Key

### JCMOS1: Clear CMOS Header

Placing the jumper on pin2-3 allows user to restore the BIOS safe setting and the CMOS data. Please carefully follow the procedures to avoid damaging the motherboard.



**Pin 1-2 Close:**  
Normal Operation  
(Default).



**Pin 2-3 Close:**  
Clear CMOS data.

#### ※ 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.

## 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 SOFTWARE

### Installing Software

1. Insert the Setup CD to the optical drive. The drivers installation program would appear if the Autorun function has been enabled.
2. Select **Software Installation**, and then click on the respective software title.
3. Follow the on-screen instructions to complete the installation.

### Launching Software

After the installation process, you will see the software icon “eHOT Line” / “BIOS Update” appears on the desktop. Double-click the icon to launch the utility.

### eHot-Line (Optional)

eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.



Before you use this utility, please set Outlook Express as your default e-mail client application program.

\*represents important information that you must provide. Without this information, you may not be able to send out the mail.

This block will show the information which would be collected in the mail.

\*Describe condition of your system.

-----  
Base board information :  
Caption : Base Board  
CreationClassName : Win32\_Base  
Description : Base Board  
HostingBoard : TRUE  
HotSwappable : FALSE  
Manufacturer : BIOSTAR Group  
Name : Base Board  
PoweredOn : TRUE  
Product : TA780G M2+  
Removable : FALSE  
Replaceable : TRUE  
RequiresDaughterBoard : FALSE  
SerialNumber : None  
Status : OK  
Tag : Base Board  
Version : 6.0

Symptom Description :

Region :  
CC E-mail :  
Memory Module Manufacture :  
Power Supply Manufacture/model :

Send Save As... Exit

\*Select your area or the area close to you.

Provide the e-mail address that you would like to send the copy to.

\*Provide the name of the memory module manufacturer.

Provide the name of the power supply manufacturer and the model no.

Send the mail out.

Save these information to a .txt file

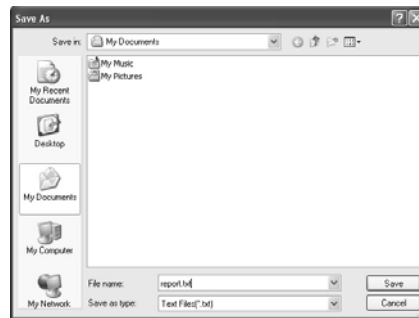
Exit this dialog.

After filling up this information, click **“Send”** to send the mail out. A warning dialog would appear asking for your confirmation; click **“Send”** to confirm or **“Do Not Send”** to cancel.



If you want to save this information to a .txt file, click **“Save As...”** and then you will see a saving dialog appears asking you to enter file name.

Enter the file name and then click **“Save”**. Your system information will be saved to a .txt file.



Open the saved .txt file, you will see your system information including motherboard/BIOS/CPU/video/device/OS information. This information is also concluded in the sent mail.



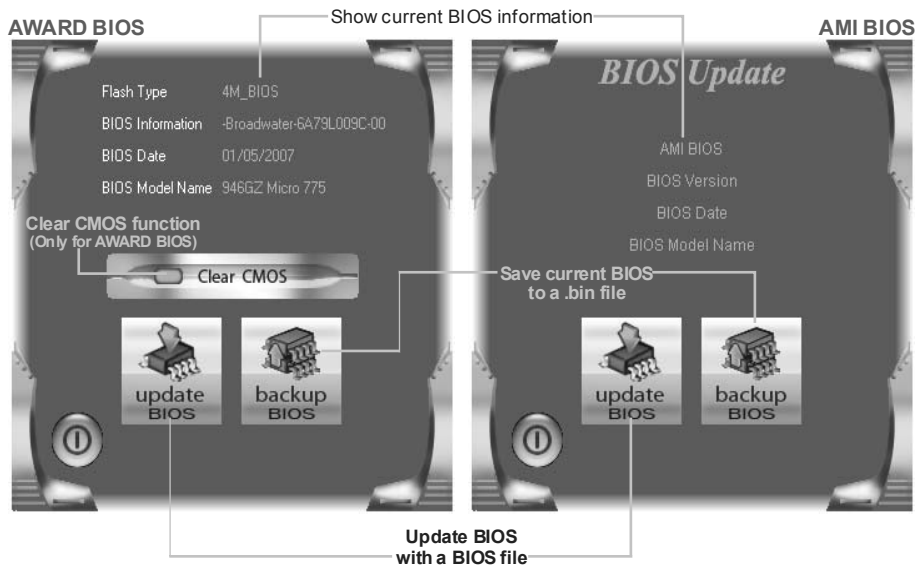
**We will not share customer’s data with any other third parties,** so please feel free to provide your system information while using eHot-Line service.



If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application. Go to the following web <http://www.biostar.com.tw/app/en-us/about/contact.php> for getting our contact information.

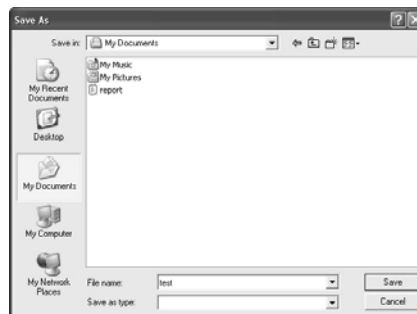
## BIOS Update

BIOS Update is a convenient utility which allows you to update your motherboard BIOS under Windows system.



### <Backup BIOS>

Once click on this button, the saving dialog will show. Choose the position to save file and enter file name. (We recommend that the file name should be English/number and no longer than 7 characters.) Then click **Save**.

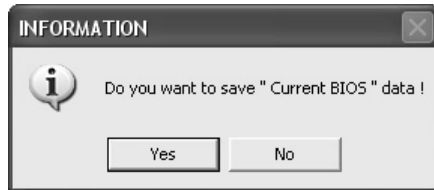
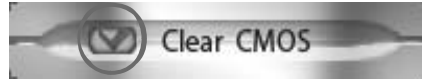




**<Update BIOS>**

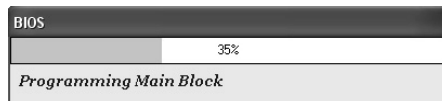
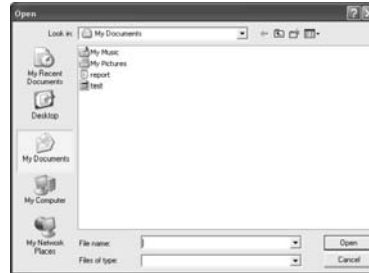
Before doing this, please download the proper BIOS file from the website.

For AWARD BIOS, update BIOS procedure should be run with Clear CMOS function, so please check on Clear CMOS first.



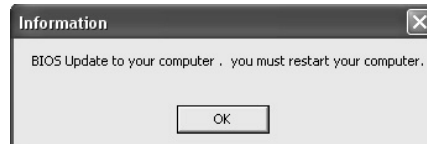
Then click Update BIOS button, a dialog will show for asking you backup current BIOS. Click **Yes** for BIOS backup and refer to the Backup BIOS procedure; or click **No** to skip this procedure.


After the BIOS Backup procedure, the open dialog will show for requesting the BIOS file which is going to be updated. Please choose the proper BIOS file for updating, then click on **Open**.



The utility will update BIOS with the proper BIOS file, and this process may take minutes. Please do not open any other applications during this process.

After the BIOS Update process, click on **OK** to restart the system.



While the system boots up and the full screen logo shows, press  <Delete> key to enter BIOS setup.

In the BIOS setup, use the **Load Optimized Defaults** function and then **Save and Exit Setup** to exit BIOS setup. BIOS Update is completed.



All the information and content above about the software are subject to be changed without notice. For better performance, the software is being continuously updated. The information and pictures described above are for your reference only. The actual information and settings on board may be slightly different from this manual.

### 4.3 EXTRA INFORMATION

#### ***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.

## BIO-Flasher

BIO-Flasher is a BIOS flashing utility providing you an easy and simple way to update your BIOS via USB pen drive or floppy disk.

The BIO-Flasher is built in the BIOS chip. To enter the utility, **press <F12> during the Power-On Self Tests (POST)** procedure while booting up.

### Updating BIOS with BIO-Flasher

1. Go to the website to download the latest BIOS file for the motherboard.
2. Then, save the BIOS file into a USB pen drive or a floppy disk.
3. Insert the USB pen drive or the floppy disk that contains the BIOS file to the USB port or the floppy disk drive.
4. Power on or reset the computer and then press **<F12>** during the **POST** process. A select dialog as the picture on the right appears. Select the device contains the BIOS file and press **<Enter>** to enter the utility.



5. The utility will show the BIOS files and their respective information. Select the proper BIOS file and press **<Enter>** then **<Y>** to perform the BIOS update process.

6. After the update process, the utility will ask you to reboot the system. Press **<Y>** to proceed. BIOS update completes.



- This utility only allows storage device with FAT32/16 format and single partition.
- Shutting down or resetting the system while updating the BIOS will lead to system boot failure.

## 4.4 AMI BIOS BEEP CODE

### Boot Block Beep Codes

Number of Beeps	Description
1	No media present. (Insert diskette in floppy drive A:)
2	"AMIBOOT.ROM" file not found in root directory of diskette in A:
3	Insert next diskette if multiple diskettes are used for recovery
4	Flash Programming successful
5	File read error
7	No Flash EPROM detected
10	Flash Erase error
11	Flash Program error
12	"AMIBOOT.ROM" file size error
13	BIOS ROM image mismatch (file layout does not match image present in flash device)

### POST BIOS Beep Codes

Number of Beeps	Description
1	Memory refresh timer error
3	Base memory read/write test error
6	Keyboard controller BAT command failed
7	General exception error (processor exception interrupt error)
8	Display memory error (system video adapter)

### Troubleshooting POST BIOS Beep Codes

Number of Beeps	Troubleshooting Action
1, 3	Reseat the memory, or replace with known good modules.
6, 7	<p>Fatal error indicating a serious problem with the system. Consult your system manufacturer. Before declaring the motherboard beyond all hope, eliminate the possibility of interference by a malfunctioning add-in card. Remove all expansion cards except the video adapter.</p> <ul style="list-style-type: none"> <li>● If beep codes are generated when all other expansion cards are absent, consult your system manufacturer's technical support.</li> <li>● If beep codes are not generated when all other expansion cards are absent, one of the add-in cards is causing the malfunction. Insert the cards back into the system one at a time until the problem happens again. This will reveal the malfunctioning card.</li> </ul>
8	If the system video adapter is an add-in card, replace or reseat the video adapter. If the video adapter is an integrated part of the system board, the board may be faulty.

## 4.5 TROUBLESHOOTING

Probable	Solution
<ol style="list-style-type: none"> <li>1. There is no power in the system. Power LED does not shine; the fan of the power supply does not work</li> <li>2. Indicator light on keyboard does not shine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure power cable is securely plugged in.</li> <li>2. Replace cable.</li> <li>3. Contact technical support.</li> </ol>
System is inoperative. Keyboard lights are on, power indicator lights are lit, and hard drives are running.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from a hard disk drive, but can be booted from optical drive.	<ol style="list-style-type: none"> <li>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.</li> <li>2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.</li> </ol>
System only boots from an optical drive. Hard disks can be read, applications can be used, but system fails to boot from a hard disk.	<ol style="list-style-type: none"> <li>1. Back up data and applications files.</li> <li>2. Reformat the hard drive. Re-install applications and data using backup disks.</li> </ol>
Screen message shows "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
System cannot boot after user installs a second hard drive.	<ol style="list-style-type: none"> <li>1. Set master/slave jumpers correctly.</li> <li>2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.</li> </ol>

## APPENDIX: SPEC IN OTHER LANGUAGES

### GERMAN

<i>Spezifikationen</i>		
CPU	LGA 775 Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx Prozessoren (Maximales Watt: 125W)	Unterstützt Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology
FSB	800 / 1066 / 1333 / 1600 MHz (OC) MHz	
Chipsatz	Intel P43 Intel ICH10	
Super E/A	ITE 8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle	Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller/-Überwachung "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR2 DIMM-Steckplätze x 2 Jeder DIMM unterstützt 256MB / 512MB / 1GB / 2GB / 4GB DDR2. Max. 8GB Arbeitsspeicher	Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 800/667 registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
IDE	Integrierter IDE-Controller (P43B-A7 Only)	Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,
SATA	Integrierter Serial ATA-Controller	Datentransferrate bis zu 3.0Gb/s Konform mit der SATA-Spezifikation Version 2.0.
LAN	Realtek RTL8111DL	10 / 100 / 1000 Mb/s Auto-Negotiation Halb- / Vollduplex-Funktion
HD Audio-Unterstützung	ALC662	Unterstützt High-Definition Audio 5.1-Kanal-Audioausgabe
Steckplätze	PCI Express Gen2 x16 Steckplatz x1 PCI Express x1 Steckplatz x2 PCI Steckplatz x3	

## P43B-A7 & P43C-A7

<b>Spezifikationen</b>			
Onboard-Anschluss	Diskettenlaufwerkanschluss	x1	Jeder Anschluss unterstützt 2 Diskettenlaufwerke
	Druckeranschluss Anschluss	x1	Jeder Anschluss unterstützt 1 Druckeranschluss
	IDE-Anschluss (P43B-A7 Only)	x1	Jeder Anschluss unterstützt 2 IDE-Laufwerke
	SATA-Anschluss	x4	Jeder Anschluss unterstützt 1 SATA-Laufwerk
	Fronttafelanschluss	x1	Unterstützt die Fronttafel-funktionen
	Front-Audioanschluss	x1	Unterstützt die Fronttafel-Audioanschlussfunktion
	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	
Rückseiten-E/A	USB-Anschluss	x2	Jeder Anschluss unterstützt 2 Fronttafel-USB-Anschlüsse
	Stromanschluss (24-polig)	x1	
	Stromanschluss (4-polig)	x1	
	PS/2-Tastatur	x1	
Rückseiten-E/A	PS/2-Maus	x1	
	Serieller Anschluss	x1	
	LAN-Anschluss	x1	
	USB-Anschluss	x4	
Platinengröße	Audioanschluss	x3	
	182mm (B) X 295 mm (L)		
OS-Unterstützung	Windows 2000 / XP / Vista 32 / Vista 64		Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

**FRENCH**

SPEC		
UC	LGA 775 Processeurs Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx (Watt maximum : 125W)	Prend en charge les technologies Hyper-Threading / d'exécution de bit de désactivation / Intel SpeedStep® optimisée/ d'architecture Intel 64 / de mémoire étendue 64 / de virtualisation
Bus frontal	800 / 1066 / 1333 / 1600 MHz (OC) MHz	
Chipset	Intel P43 Intel ICH10	
Super E/S	ITE 8718F 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 /moniteur de vitesse de ventilateur Fonction "Gardien intelligent" de l'ITE
Mémoire principale	Fentes DDR2 DIMM x 2 Chaque DIMM prend en charge des DDR2 de 256Mo / 512Mo / 1Go / 2Go / 4Go Capacité mémoire maximale de 8Go	Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 800/667 Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
IDE	Contrôleur IDE intégré (P43B-A7 Only)	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 3.0Go/s. Conforme à la spécification SATA Version 2.0
LAN	Realtek RTL8111DL	10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability
Prise en charge audio HD	ALC662	Prise en charge de l'audio haute définition Sortie audio à 5.1 voies
Fentes	Fente PCI Express Gen2 x16      x1 Fente PCI Express x1              x2 Fente PCI                                x3	



**P43B-A7 & P43C-A7**

<b>SPEC</b>			
Connecteur embarqué	Connecteur de disquette	x1	Chaque connector prend en charge 2 lecteurs de disquettes
	Connecteur de Port d'imprimante	x1	Chaque connector prend en charge 1 Port d'imprimante
	Connecteur IDE (P43B-A7 Only)	x1	Chaque connecteur prend en charge 2 périphériques IDE
	Connecteur SATA	x4	Chaque connecteur prend en charge 1 périphérique SATA
	Connecteur du panneau avant	x1	Prend en charge les équipements du panneau avant
	Connecteur Audio du panneau avant	x1	Prend en charge la fonction audio du panneau avant
	Connecteur de sortie S/PDIF	x1	Prend en charge la fonction de sortie audio numérique
	Embase de ventilateur UC	x1	Alimentation électrique du ventilateur UC (avec fonction de ventilateur intelligent)
	Embase de ventilateur système	x1	Alimentation électrique du ventilateur système
	Embase d'effacement CMOS	x1	
	Connecteur USB	x2	Chaque connecteur prend en charge 2 ports USB de panneau avant
	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 LAN	x1	
	Port USB	x4	
	Fiche audio	x3	
Dimensions de la carte	182mm (L) X 295 mm (H)		
Support SE	Windows 2000 / XP / Vista 32 / Vista 64		Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

**ITALIAN**

<b>SPECIFICA</b>		
CPU	LGA 775 Processore Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx (Watt massimo: 125W)	Supporto di Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64 / Tecnologia Virtualization
FSB	800 / 1066 / 1333 / 1600 MHz (OC) MHz	
Chipset	Intel P43 Intel ICH10	
Super I/O	ITE 8718F Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count)	Funzioni di controllo dell'ambiente: Monitoraggio hardware Controller / Monitoraggio velocità ventolina Funzione "Smart Guardian" di ITE
Memoria principale	Alloggi DIMM DDR2 x 2 Ciascun DIMM supporta DDR2 256MB / 512MB / 1GB / 2GB / 4GB Capacità massima della memoria 8GB	Modulo di memoria DDR2 a canale doppio Supporto di DDR2 800/667 DIMM registrati e DIMM ECC non sono supportati
IDE	Controller IDE integrato (P43B-A7 Only)	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 3.0Gb/s. Compatibile specifiche SATA Versione 2.0.
LAN	Realtek RTL8111DL	Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex
Supporto audio HD	ALC662	Supporto audio High-Definition (HD) Uscita audio 5.1 canali
Alloggi	Alloggio PCI Express Gen2 x16 x1 Alloggio PCI Express x1 x2 Alloggio PCI x3	

**P43B-A7 & P43C-A7**

<b>SPECIFICA</b>			
Connettori su scheda	Connettore floppy	x1	Ciascun connettore supporta 2 unità Floppy
	Connettore Porta stampante	x1	Ciascun connettore supporta 1 Porta stampante
	Connettore IDE (P43B-A7 Only)	x1	Ciascun connettore supporta 2 unità IDE
	Connettore SATA	x4	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 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	
Connettori	Connettore USB	x2	Ciascun connettore supporta 2 porte USB pannello frontale
	Connettore alimentazione (24 pin)	x1	
	Connettore alimentazione (4 pin)	x1	
I/O pannello posteriore	Tastiera PS/2	x1	
	Mouse PS/2	x1	
	Porta seriale	x1	
	Porta LAN	x1	
	Porta USB	x4	
	Connettore audio	x3	
Dimensioni i scheda	182mm (larghezza) x 295 mm (altezza)		
Sistemi operativi supportati	Windows 2000 / XP / Vista 32 / Vista 64		Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

**SPANISH**

<b>Especificación</b>		
CPU	LGA 775 Procesador Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx (Vatio máximo: 125W)	Admite Hyper-Threading / Bit de deshabilitación de ejecución / Intel SpeedStep® Mejorado / Intel Architecture-64 / Tecnología Extended Memory 64 / Tecnología de virtualización
FSB	800 / 1066 / 1333 / 1600 MHz (OC) MHz	
Conjunto de chips	Intel P43 Intel ICH10	
Súper E/S	ITE 8718F 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/monitor de velocidad de ventilador Función "Guardia inteligente" de ITE
Memoria principal	Ranuras DIMM DDR2 x 2 Cada DIMM admite DDR de 256MB / 512MB / 1GB / 2GB / 4GB Capacidad máxima de memoria de 8GB	Módulo de memoria DDR2 de canal Doble Admite DDR2 de 800/667 No admite DIMM registrados o DIMM compatibles con ECC
IDE	Controlador IDE integrado (P43B-A7 Only)	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 3.0 Gb/s. Compatible con la versión SATA 2.0.
Red Local	Realtek RTL8111DL	Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex
Soporte de sonido HD	ALC662	Soporte de sonido de Alta Definición Salida de sonido de 5.1 canales
Ranuras	Ranura PCI Express Gen2 x16 X1 Ranura PCI express x1 X2 Ranura PCI X3	

<b>Especificación</b>			
Conectores en placa	Conector disco flexible	X1	Cada conector soporta 2 unidades de disco flexible
	Conector Puerto de impresora	X1	Cada conector soporta 1 Puerto de impresora
	Conector IDE (P43B-A7 Only)	X1	Cada conector soporta 2 dispositivos IDE
	Conector SATA	X4	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 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 red local	X1	
	Puerto USB	X4	
	Conector de sonido	X3	
Tamaño de la placa	182mm. (A) X 295 Mm. (H)		
Soporte de sistema operativo	Windows 2000 / XP / Vista 32 / Vista 64		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

**PORTUGUESE**

<b>ESPECIFICAÇÕES</b>		
CPU	LGA 775 Processador Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx (Watt máximo: 125W)	Suporta as tecnologias Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture -64 / Extended Memory 64 / Virtualization
FSB	800 / 1066 / 1333 / 1600 MHz (OC) MHz	
Chipset	Intel P43 Intel ICH10	
Especificação do Super I/O	ITE 8718F 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/Monitor da velocidade da ventoinha Função "Smart Guardian" da ITE
Memória principal	Ranuras DIMM DDR2 x 2 Cada módulo DIMM suporta uma memória DDR2 de 256 MB / 512 MB / 1GB / 2GB / 4GB Capacidade máxima de memória:8 GB	Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 800/667 Os módulos DIMM registados e os DIMM ECC não são suportados
IDE	Controlador IDE integrado (P43B-A7 Only)	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 3.0 Gb/s. Compatibilidade com a especificação SATA versão 2.0.
LAN	Realtek RTL8111DL	Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex
Suporte para áudio de alta definição	ALC662	Suporta a especificação High-Definition Audio Saída de áudio de 5.1 canais
Ranuras	Ranura PCI Express Gen2 x16      x1 Ranura PCI Express x1              x2 Ranura PCI                                x3	

<b>ESPECIFICAÇÕES</b>			
Conectores na placa	Conector da unidade de disquetes	x1	Cada conector suporta 2 unidades de disquetes
	Conector da para impressora	x1	Cada conector suporta 1 Porta para impressora
	Conector IDE (P43B-A7 Only)	x1	Cada conector suporta 2 dispositivos IDE
	Conector SATA	x4	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 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	
Conector USB	x2	Cada conector suporta 2 portas USB no painel frontal	
Conector de alimentação (24 pinos)	x1		
Conector de alimentação (4 pinos)	x1		
Entradas/Saídas no painel traseiro	Teclado PS/2	x1	
	Rato PS/2	x1	
	Porta série	x1	
	Porta LAN	x1	
	Porta USB	x4	
Tomada de áudio	x3		
Tamanho da placa	182mm (L) X 295 mm (A)		
Sistemas operativos suportados	Windows 2000 / XP / Vista 32 / Vista 64	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 Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx (Maksymalny Watt: 125W)	Obsługa Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology
FSB	800 / 1066 / 1333 / 1600 MHz (OC) MHz	
Chipset	Intel P43 Intel ICH10	
Pamięć główna	Gniazda DDR2 DIMM x 2 Każde gniazdo DIMM obsługuje moduły 256MB / 512MB / 1GB / 2GB / 4GB Maks. wielkość pamięci 8GB	Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 800/667 Brak obsługi Registered DIMM oraz ECC DIMM
Super I/O	ITE 8718F Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count	Funkcje kontroli warunków pracy, Monitor H/W Kontroler/Monitor prędkości wentylatora Funkcja ITE "Smart Guardian"
IDE	Zintegrowany kontroler IDE (P43B-A7 Only)	Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,
SATA	Zintegrowany kontroler Serial ATA	Transfer danych do 3.0 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.
LAN	Realtek RTL8111DL	10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie półwiznego / pełnego duplexu
Obsługa audio HD	ALC662	Obsługa High-Definition Audio 5.1 kanałowe wyjście audio
Gniazda	Gniazdo PCI Express Gen2 x16      x1 Gniazdo PCI Express x1            x2 Gniazdo PCI                            x3	



**P43B-A7 & P43C-A7**

<b>SPEC</b>			
Złącza wbudowane	Złącze napędu dyskietek	x1	Każde złącze obsługuje 2 napędy dyskietek
	Złącze Port drukarki	x1	Każde złącze obsługuje 1 Port drukarki
	Złącze IDE (P43B-A7 Only)	x1	Każde złącze obsługuje 2 urządzenia IDE
	Złącze SATA	x4	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 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	
	Złącze USB	x2	Każde złącze obsługuje 2 porty USB na panelu przednim
Złącze zasilania (24 pinowe)	x1		
Złącze zasilania (4 pinowe)	x1		
Back Panel I/O	Klawiatura PS/2	x1	
	Mysz PS/2	x1	
	Port szeregowy	x1	
	Port LAN	x1	
	Port USB	x4	
	Gniazdo audio	x3	
Wymiary płyty	182mm (S) X 295 mm (W)		
Obsługa systemu operacyjnego	Windows 2000 / XP / Vista 32 / Vista 64		Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

**RUSSIAN**

<b>СПЕЦ</b>		
CPU (центральный процессор)	LGA 775 Процессор Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx (Максимальный ватт: 125W)	Поддержка технологий Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / технологии виртуализация
FSB	800 / 1066 / 1333 / 1600 (OC) МГц	
Набор микросхем	Intel P43 Intel ICH10	
Основная память	Слоты DDR2 DIMM x 2 Каждый модуль DIMM поддерживает 256 МБ / 512МБ / 1ГБ / 2ГБ / 4ГБ DDR2 Максимальная ёмкость памяти 8ГБ	Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 800/667 Не поддерживает зарегистрированные модули DIMM and ECC DIMM
Super I/O	ITE 8718F Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов	Инициативы по охране окружающей среды, Аппаратный монитор Регулятор скорости вентилятора/ монитор Функция ITE "Smart Guardian" (Интеллектуальная защита)
IDE	Встроенное устройство управления встроенными интерфейсами устройств (P43B-A7 Only)	Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,
SATA	Встроенное последовательное устройство управления ATA	скорость передачи данных до 3.0 гигабит/с. Соответствие спецификации SATA версия 2.0.
Локальная сеть	Realtek RTL8111DL	Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность
Звуковая поддержка жесткого диска	ALC662	Звуковая поддержка High-Definition 5.1канальный звуковой выход
Слоты	Слот PCI Express Gen2 x16 x1 Слот PCI Express x1 x2 Слот PCI x3	

**P43B-A7 & P43C-A7**

<b>СПЕЦ</b>			
Встроенны й разъём	Разъём НГМД	x1	Каждый разъём поддерживает 2 накопителя на гибких магнитных дисках
	Разъём Порт подключения принтера	x1	Каждый разъём поддерживает 1 Порт подключения принтера
	Разъём IDE (P43B-A7 Only)	x1	Каждый разъём поддерживает 2 встроенных интерфейса накопителей
	Разъём SATA	x4	Каждый разъём поддерживает 1 устройство SATA
	Разъём на лицевой панели	x1	Поддержка устройств на лицевой панели
	Входной звуковой разъём	x1	Поддержка звуковых функций на лицевой панели
	Разъём вывода для S/PDIF	x1	Поддержка вывода цифровой звуковой функции
	Контактирующее приспособление вентилятора центрального процессора	x1	Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора)
	Контактирующее приспособление вентилятора системы	x1	Источник питания для вентилятора системы
	Открытое контактирующее приспособление CMOS	x1	
	USB-разъём	x2	Каждый разъём поддерживает 2 USB-порта на лицевой панели
	Разъём питания (24 вывод)	x1	
Разъём питания (4 вывод)	x1		
Задняя панель средств ввода-выв ода	Клавиатура PS/2	x1	
	Мышь PS/2	x1	
	Последовательный порт	x1	
	Порт LAN	x1	
	USB-порт	x4	
	Гнездо для подключения наушников	x3	
Размер панели	182мм (Ш) X 295 мм (В)		
Поддержка OS	Windows 2000 / XP / Vista 32 / Vista 64		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.

## ARABIC

للمواصفات		
Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology	LGA 775 Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx يتردد يصل إلى (رقصوى واط) (125)	وحدة المعالجة المركزية
	مجاهرتر (OC) 800 / 1066 / 1333 / 1600 تردد	النقل الأممي الجنبى
	Intel P43 Intel ICH10	مجموعة الشرائح
مزدوجة القناةDDR2وحدة ذاكرة 800/667 ميجابايتDDR2تدعم الذاكرة من نوع ECC وذلك التي لا تتوافق مع DIMMلا تدعم رقائق الذاكرة	عدد2 قذحة DDR2 DIMM سعةتدعم كل DDR2تدعم ذاكرة من نوع DIMMكل قذحة 256/512سعة DDR2تدعم ذاكرة من نوع DIMMقذحة ميجا بايت و1/2و4 ميجا بايت سعة ذاكرة قصوى 8 جيجا بايت	الذاكرة الرئيسية
وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجزاء مراقب في سرعة المروحة ITE من "Smart Guardian" وظيفة	ITE 8718F الأكثر استخداماً، Super I/O ووظيفة Low Pin Count Interfaceتدعم تقنية	Super I/O
وضع رئيسيUltra DMA 33 / 66 / 100 / 133 نقل بتقنية PIO Mode 0~4تدعم وضع	متكاملIDEمتكلم (P43B-A70Only)	منفذ IDE
جيجابت/ثانية،3.0نقل البيانات بسرعت تصل إلى 2.0 الإصدار SATAمطلقة لمواصفات	متكاملSerial ATAمتكلم	SATA
تفاوض تلقائي 100/10 ميجا بايت / ثانية و1 جيجا بايت/ثانية إمكانية النقل المزدوج الكامل/القصفي	Realtek RTL8111DL	شبكة داخلية
تدعم تقنية الصوت عالي التعريف من 5.1 قنوات لخرج الصوت	ALC662	دعم الصوت عالي التعريف
	عدد 1 قذحة PCI Express Gen2 x16 عدد 2 قذحة PCI Express x1 عدد 3 قذحة PCI	التحات

P43B-A7 & P43C-A7

المواصفات		
يدعم محركين للأقراص المرنة	عدد 1	منفذ محرك أقراص مرنة
	عدد 1	منفذ طباعة
IDE يدعم كل منفذ اثنين من أجهزة	عدد 1	منفذ (P43B-A7 Only) IDE
SATA يدعم كل منفذ واحد من أجهزة	عدد 4	منفذ SATA
يدعم تجهيزات اللوحة الامامية	عدد 1	منفذ اللوحة الامامية
يدعم وظيفة الصوت باللوحة الامامية	عدد 1	منفذ الصوت الاملي
يدعم وظيفة خرج الصوت الرقمي	عدد 1	منفذ خرج S/PDIF
Smart Fan توصيل الطاقة لمروحة وحدة المعالجة مع وظيفة	عدد 1	وصلة مروحة وحدة المعالجة المركزية
توصيل الطاقة لمروحة النظام	عدد 1	وصلة مروحة النظام
	عدد 1	وصلة مسح CMOS
باللوحة الامامية USB يدعم كل منفذ قحطي	عدد 2	منفذ USB
	عدد 1	منفذ توصيل الطاقة (24 دبوس) ع
	عدد 1	منفذ توصيل الطاقة (4 دبوس)
	عدد 1	لوحة مفاتيح PS/2
	عدد 1	ملوس PS/2
	عدد 1	منفذ تسلسلي
	عدد 1	منفذ شبكة اتصال محلية
	عدد 4	منافذ USB
	عدد 3	مقيس صوت
		حجم اللوحة
		182 مم (عرض) X 295 مم (ارتفاع)
بحقها في اضافة او ازالة الدعم لأي نظام تشغيل باخطار أو بدون <b>BioStar</b> احتفظ بخطار .	Windows 2000 / XP / Vista 32 / Vista 64	دعم أنظمة التشغيل

## JAPANESE

仕様		
CPU	LGA 775 Intel Core2Duo / Core2Quad / Pentium Dual-Core / Celeron Dual-Core / Celeron 4xx processor (最高のワット: 125W)	Hyper-Threading / Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technologyをサ ポートします
FSB	800 / 1066 / 1333 / 1600 MHz (OC) MHz	
チップセット	Intel P43 Intel ICH10	
メインメモリ	DDR2 DIMMスロット x 2 各DIMMは 256MB / 512MB / 1GB / 2GB / 4GB DDR2をサポート 最大メモリ容量8GB	デュアルチャンネルモードDDR2メモリモジュール DDR2 800/667をサポート 登録済みDIMMとECC DIMMはサポートされません
Super I/O	ITE 8718F もつ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 (P43B-A7 Only)	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3.0 Gb/秒のデータ転送速度 SATAバージョン2.0仕様ご準拠。
LAN	Realtek RTL8111DL	10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能
HDオーディオのサポート	ALC662	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 Express Gen2 x16スロット x1 PCI Express x1スロット x2 PCIスロット x3	

**P43B-A7 & P43C-A7**

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
	プリンタポートコネクタ	x1	各コネクタは1つのプリンタポートをサポートします
	IDEコネクタ(P43B-A7 Only)	x1	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	x4	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
	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	
オンボードコネクタ	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	
	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	182mm (幅) X 295 mm (高さ)		
OSサポート	Windows 2000 / XP / Vista 32 / Vista 64		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。

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