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Dichiarazione di conformità sintetica

Ai sensi dell'art. 2 comma 3 del D.M. 275 del 30/10/2002

Si dichiara che questo prodotto è conforme alle normative vigenti e soddisfa i requisiti essenziali richiesti dalle direttive

2004/108/CE, 2006/95/CE e 1999/05/CE

quando ad esso applicabili

Short Declaration of conformity

We declare this product is complying with the laws in force and meeting all the essential requirements as specified by the directives

2004/108/CE, 2006/95/CE and 1999/05/CE

whenever these laws may be applied

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

1.2 PACKAGE CHECKLIST

- ✚ Serial ATA Cable x2
- ✚ Rear I/O Panel for ATX Case x1
- ✚ User's Manual x1
- ✚ Fully Setup Driver DVD x1

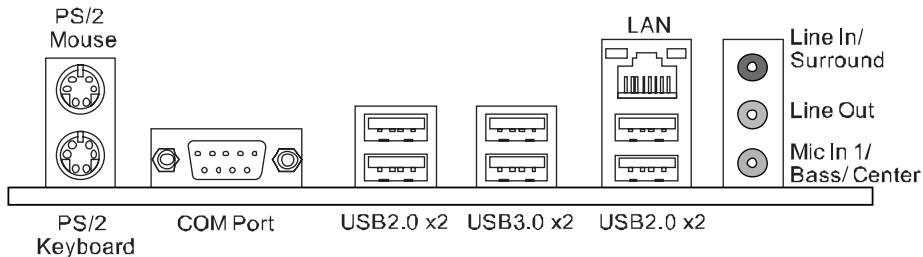
Note: The package contents may be different due to area or your motherboard version.

1.3 MOTHERBOARD FEATURES

SPEC			
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron processor (TDP: 95W)	Supports Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading	
Chipset	B75		
Super I/O	IT8728F-EX 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	DDR3 DIMM Slots x 2 Max Memory Capacity 16GB Each DIMM supports 512MB/ 1GB/2GB/4GB/8GB DDR3	Dual Channel Mode DDR3 memory module Supports DDR3 1066 / 1333 Supports DDR3 1600 (depending on CPU) Registered DIMM and ECC DIMM is not supported	
SATA 2 & 3	Integrated Serial ATA Controller	Data transfer rates up to 3.0 Gb/s / 6.0 Gb/s. SATA Version 2.0 / 3.0 specification compliant	
LAN	Realtek RTL 8111F	10 / 100 Mb/s / 1Gb/s auto negotiation Half / Full duplex capability	
Sound Codec	ALC662	5.1 channels audio out High Definition Audio, Biostar Hi-Fi	
USB3.0	B75	Data transfer rates up to 600 MB/s	
Slots	PCI slot	x2	Supports PCI expansion cards
	PCI Express Gen3 x 16 slot	x1	Supports PCI-E Gen3 x16 expansion card
	PCI Express Gen2 x 16 slot(x4)	x1	Supports PCI-E Gen2 x16 expansion card
	PCI Express Gen2 x 1 slot	x2	Supports PCI-E Gen2 x1 expansion cards
	SATA3 Connector	x1	Each connector supports 1 SATA3 devices
	SATA2 Connector	x5	Each connector supports 1 SATA2 devices
	Front Panel Connector	x1	Supports front panel facilities

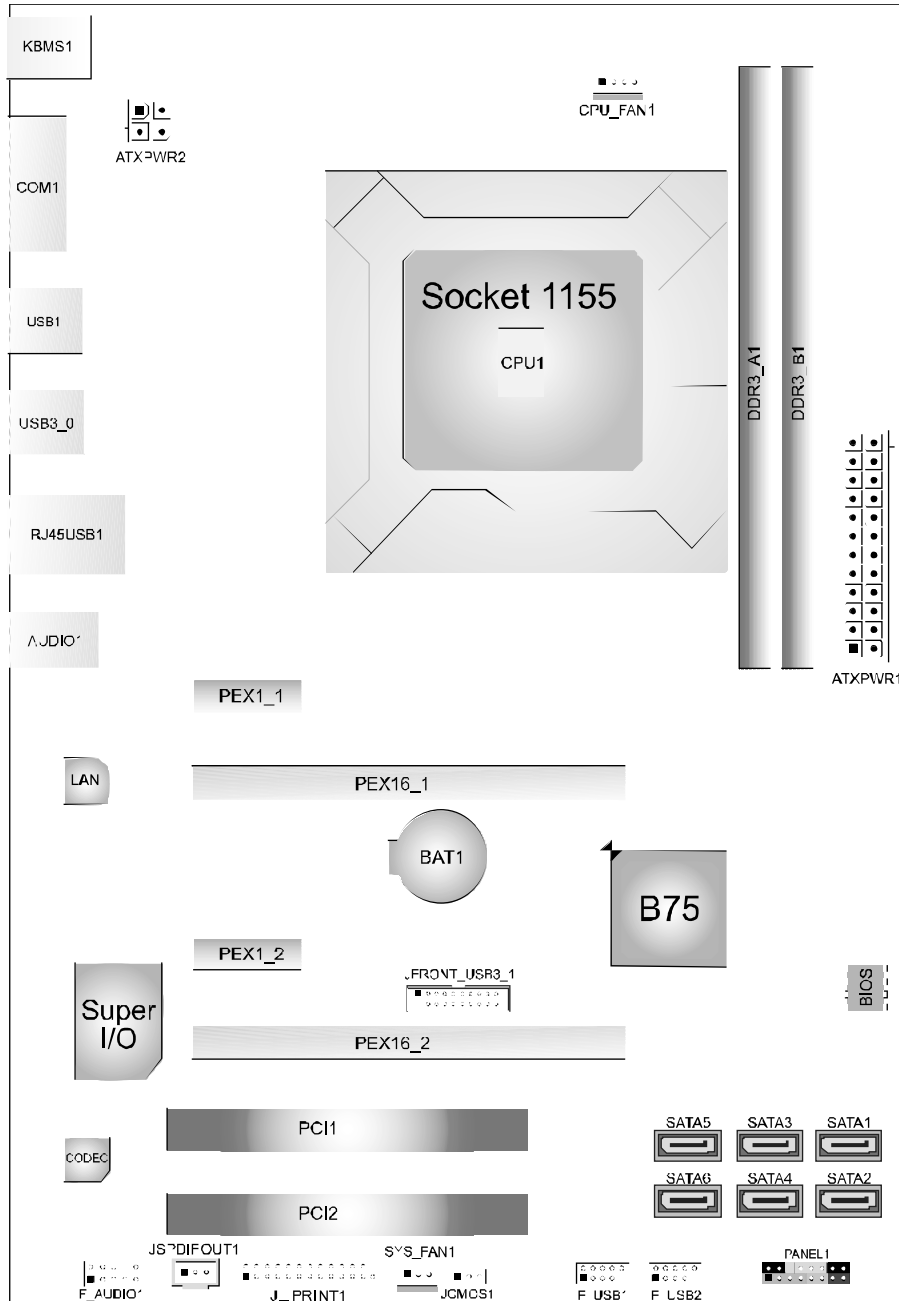
SPEC			
On Board Connectors	Front Audio Connector	x1	Supports front panel audio function
	CPU Fan Header	x1	CPU Fan power supply (with Smart Fan function)
	System Fan Header	x1	System Fan Power supply
	Clear CMOS Header	x1	Restore CMOS data to factory default
	USB2.0 Connector	x2	Each connector supports 2 front panel USB2.0 ports
	USB3.0 Connector	x1	Each connector supports 2 front panel USB3.0 ports
	Printer Port Connector	x1	Each connector supports 1 Printer port
	S/PDIF out Connector	x1	Supports digital audio out function
	Power Connector (24pin)	x1	Connects to Power supply
	Power Connector (4pin)	x1	Connects to Power supply
Back Panel I/O	PS/2 Keyboard/ Mouse	x1	Connects to PS/2 Keyboard/ Mouse
	COM port	x1	Connects to RS-232 Port
	LAN port	x1	Connect to RJ-45 Ethernet cable
	USB2.0 Port	x4	Connect to USB2.0 devices
	USB3.0 Port	x2	Connect to USB3.0 devices
	Audio Jack	x3	Provide Audio-In/Out and Mic. connection
Board Size	210 (W) x 305 (L) mm	ATX	
OS Support	Windows XP / Vista / 7	Biostar reserves the right to add or remove support for any OS with or without notice	

1.4 REAR PANEL CONNECTORS



Note: USB3.0 ports (only supported by Windows 7) are backward compatible with USB2.0/USB1.X devices.

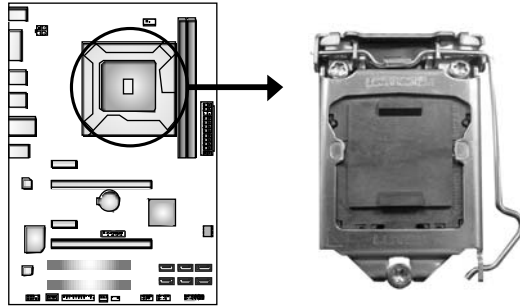
1.5 MOTHERBOARD LAYOUT



Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

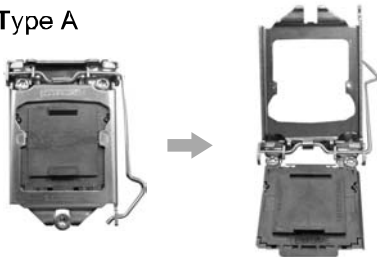


Notice:

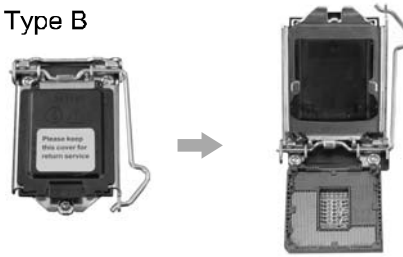
1. Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.
2. The motherboard might equip with two different types of pin cap. Please refer below instruction to remove the pin cap.

Step 1: Pull the socket locking lever out from the socket and then raise the lever up.

Type A

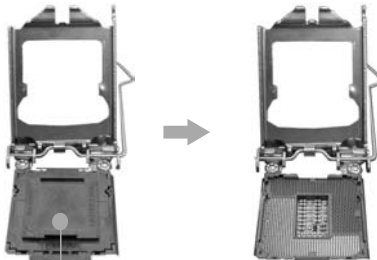


Type B



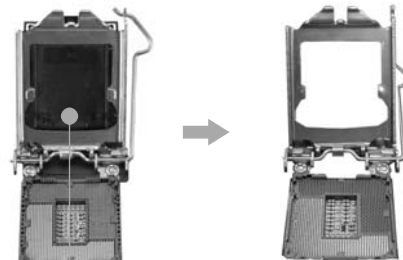
Step 2: Remove the Pin Cap.

Type A



Pin Cap

Type B



Pin Cap

Motherboard Manual

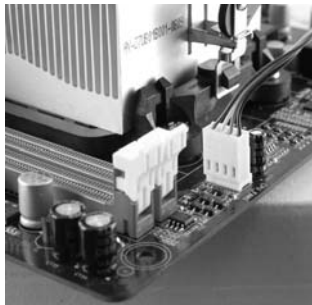
Step 3: Hold processor with your thumb and index fingers, oriented as shown. Align the notches with the socket. Lower the processor straight down without tilting or sliding the processor in the socket.



Step 4: Hold the CPU down firmly, and then lower the lever to locked position to complete the installation.



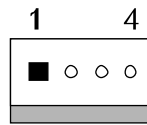
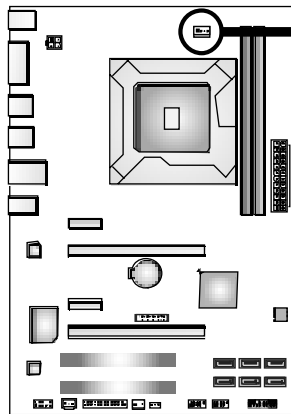
Step 5: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the CPU_FAN1 to complete the installation.



2.2 FAN HEADERS

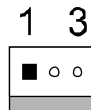
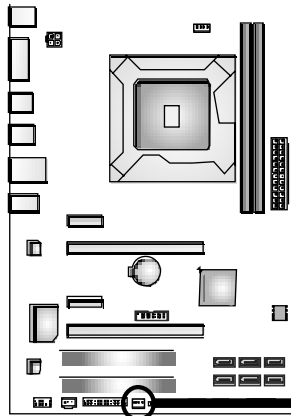
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU_FAN1: CPU Fan Header



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

SYS_FAN1: System Fan Header



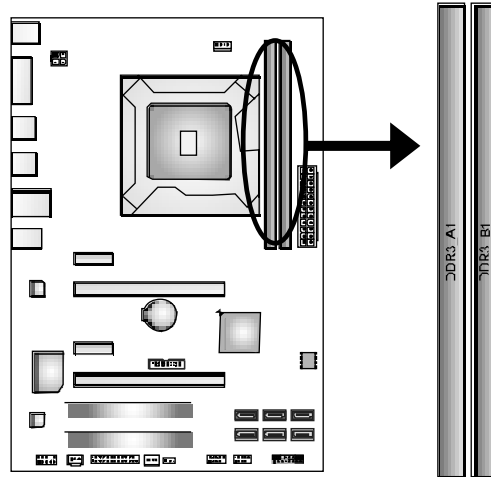
- Pin Assignment**
- 1 Ground
 - 2 +12V
 - 3 FAN RPM rate sense

Note:

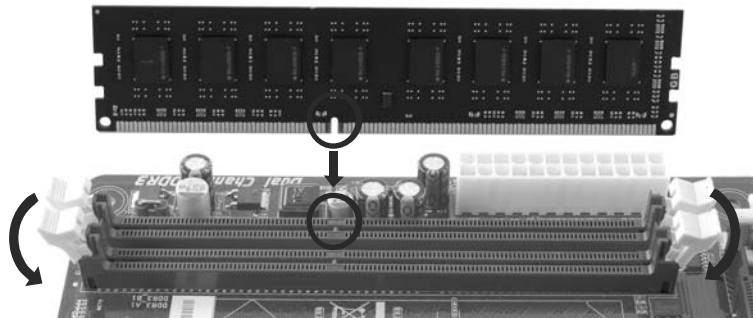
The SYS_FAN1 supports 3-pin head connectors; the CPU_FAN1 supports 4-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

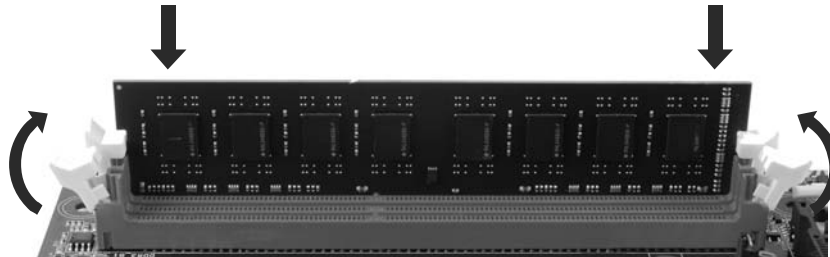
A. Memory Modules



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.



Note: If the DIMM does not go in smoothly, do not force it. Pull it all the way out and try again.

B. Memory Capacity

DIMM Socket Location	DDR3 Module	Total Memory Size
DDR3_A1	512MB/1GB/2GB/4GB/8GB	Max is 16GB.
DDR3_B1	512MB/1GB/2GB/4GB/8GB	

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	DDR3_A1	DDR3_B1
Disabled	O	X
Disabled	X	O
Enabled	O	O

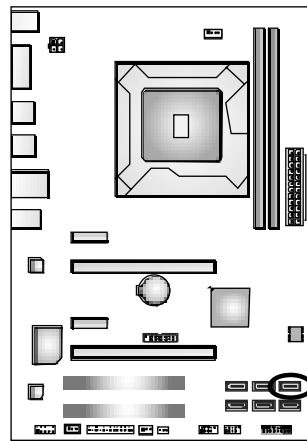
(O means memory installed; X, not installed.)

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

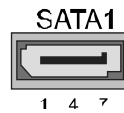
2.4 CONNECTORS AND SLOTS

SATA1: Serial ATA3.0 Connectors

The connector connect to SATA hard disk drives via SATA cables.
Those satisfy the SATA 3.0 spec and with transfer rate of 6.0Gb/s.

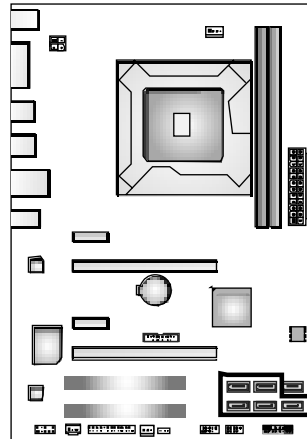


Pin	Assignment
1	Ground
2	TX+
3	TX-
4	Ground
5	RX-
6	RX+
7	Ground



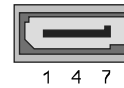
SATA2 ~ 6: Serial ATA2.0 Connectors

These connectors connect to SATA hard disk drives via SATA cables.
Those satisfy the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



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

SATA5 SATA3
SATA6 SATA4 SATA2



PEX16_1: PCI-Express Gen3 x16 (x16) Slot

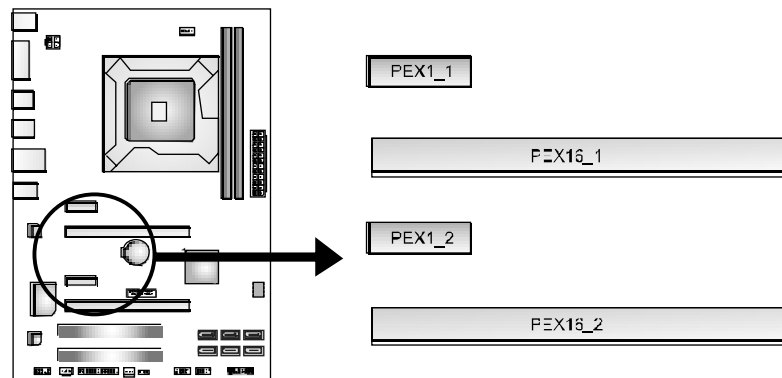
- PCI-Express 3.0 compliant.
- Maximum theoretical realized bandwidth of 16GB/s simultaneously per direction, for an aggregate of 32GB/s totally.
- PCI-E 3.0 is supported by Core i7-3xxx / i5-3xxx CPU.

PEX16_2: PCI-Express Gen2 x4 Slot

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 2GB/s simultaneously per direction, for an aggregate of 4GB/s totally.

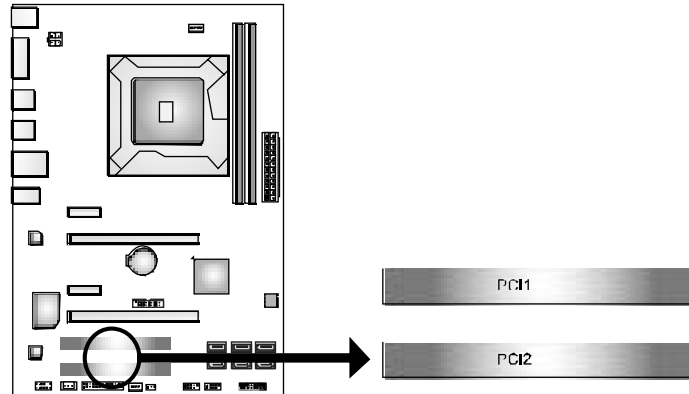
PEX1_1/PEX1_2: PCI-Express Gen2 x1 Slot

- PCI-Express 2.0 compliant.
- Data transfer bandwidth up to 500MB/s per direction; 1GB/s in total.



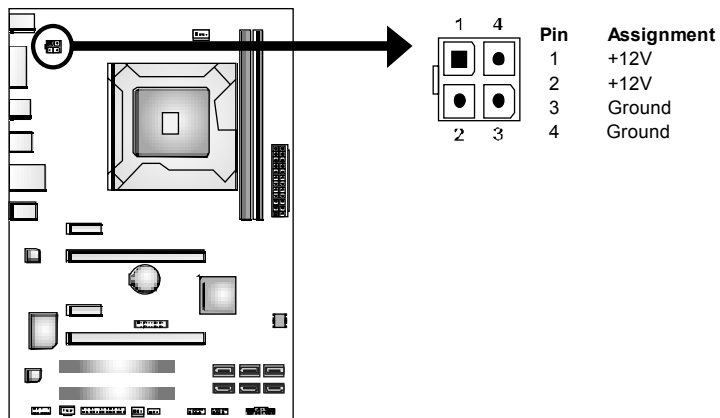
PCI1/PCI2: Peripheral Component Interconnect Slots

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.



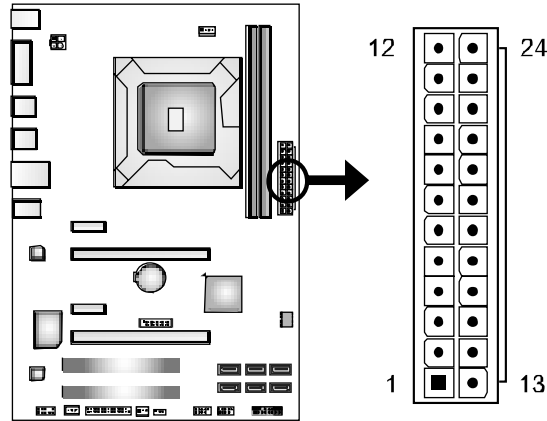
ATXPWR2: ATX Power Source Connector

This connector provides +12V to CPU power circuit.



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

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

CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

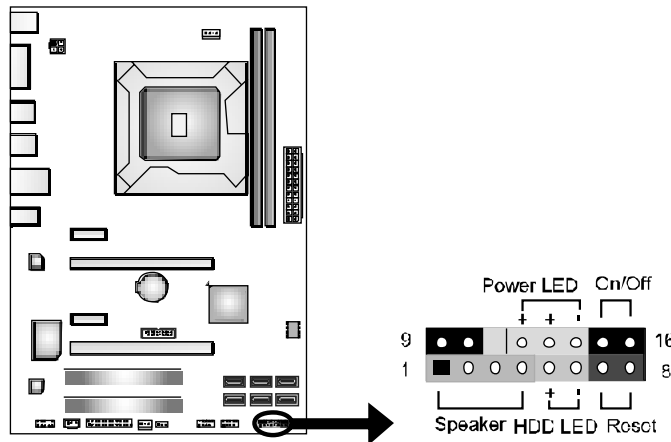
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

PANEL1: Front Panel Header

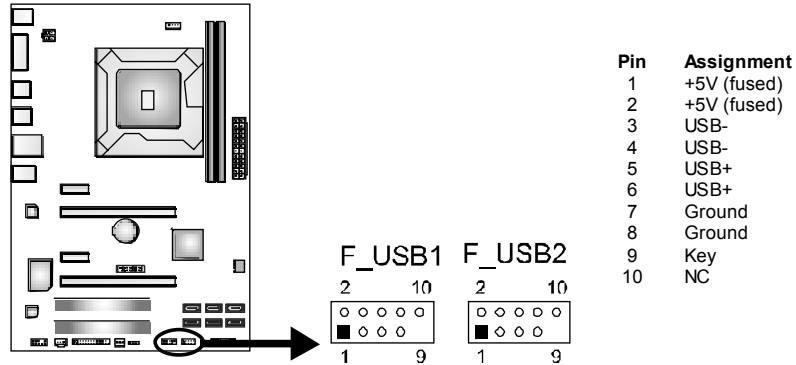
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



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

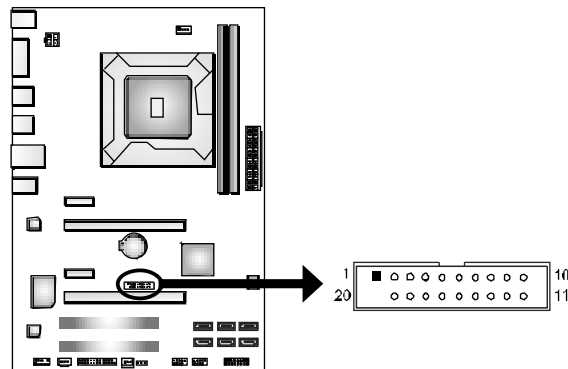
F_USB1/F_USB2: Headers for USB 2.0 Ports at Front Panel

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



JFRONT_USB3_1: Header for USB 3.0 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.

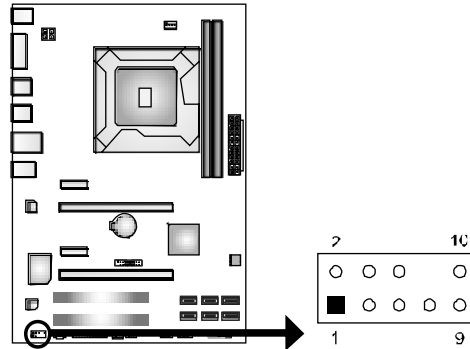


Pin	Assignment	Pin	Assignment
1	VBUS0	11	D2+
2	SSRX1-	12	D2-
3	SSRX1+	13	Ground
4	Ground	14	SSTX2+
5	SSTX1-	15	SSTX2-
6	SSTX1+	16	Ground
7	Ground	17	SSRX2+
8	D1-	18	SSRX2-
9	D1+	19	VBUS1
10	ID	20	Key

Note: USB3.0 is only supported by Windows 7.

F_AUDIO1: Front Panel Audio Header

This header allows user to connect the front audio output cable with the PC front panel. This header supports HD and AC'97 audio front panel connector.



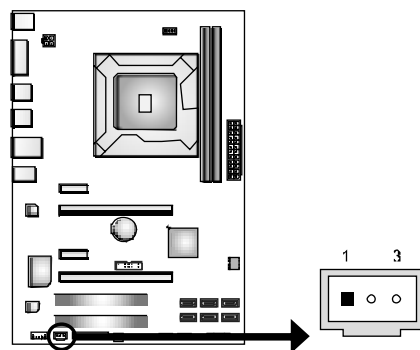
HD Audio		AC'97	
Pin	Assignment	Pin	Assignment
1	Mic Left in	1	Mic In
2	Ground	2	Ground
3	Mic Right in	3	Mic Power
4	GPIO	4	Audio Power
5	Right line in	5	RT Line Out
6	Jack Sense	6	RT Line Out
7	Front Sense	7	Reserved
8	Key	8	Key
9	Left line in	9	LFT Line Out
10	Jack Sense	10	LFT Line Out

Note1: It is recommended that you connect a high-definition front panel audio module to this connector to avail of the motherboard's high definition audio capability.

Note2: Please try to disable the "Front Panel Jack Detection" if you want to use an AC'97 front audio output cable. The function can be found via O.S. Audio Utility.

JSPDIFOUT1: Digital Audio-out Connector

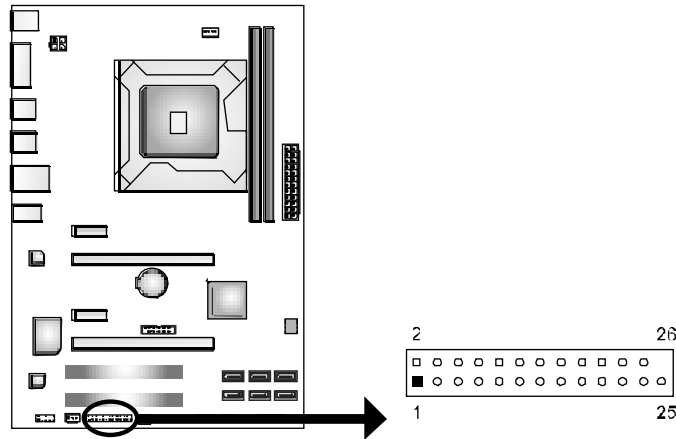
This connector allows user to connect the PCI bracket SPDIF output header.



Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

J_PRINT1: Printer Port Connector

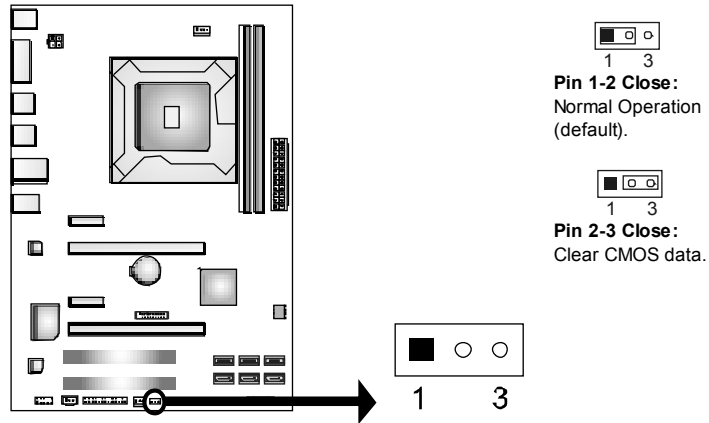
This header allows you to connector printer on the PC.



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.



※ 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 DVD into your optical drive and install the driver for better system performance.

You will see the following window after you insert the DVD



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

Note:

If this window didn't show up after you insert the Driver DVD, 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 DVD. 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 DVD 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

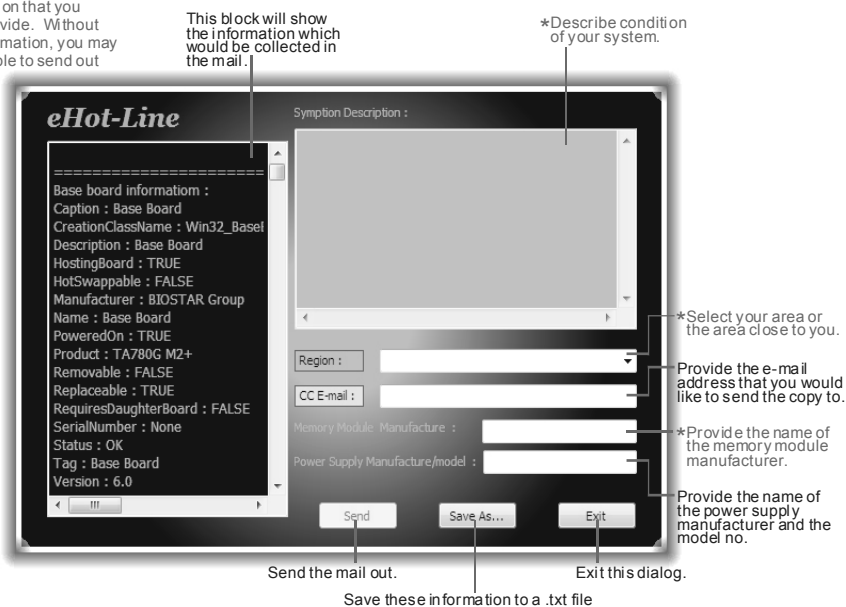
After the installation process, you will see the software icon “eHOT Line” / “BIOS Update” appears on the desktop. Double-click the icon to launch the utility.

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.



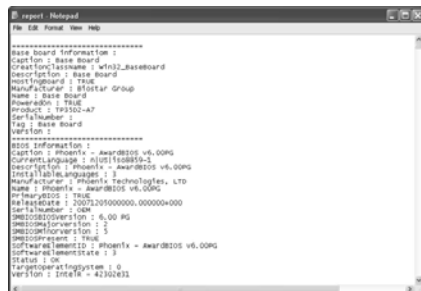
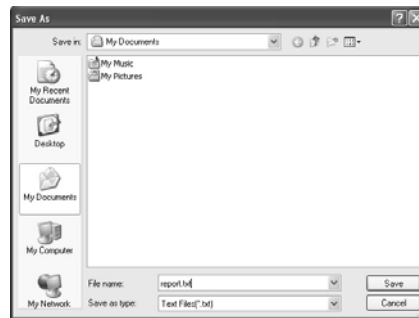
The screenshot shows the eHot-Line utility window. On the left, a text box displays system information: Base board information: Caption: Base Board, CreationClassName: Win32_Base, Description: Base Board, HostingBoard: TRUE, HotSwappable: FALSE, Manufacturer: BIOSTAR Group, Name: Base Board, PoweredOn: TRUE, Product: TA780G M2+, Removable: FALSE, Replaceable: TRUE, RequiresDaughterBoard: FALSE, SerialNumber: None, Status: OK, Tag: Base Board, Version: 6.0. On the right, there is a 'Symptom Description' text area, a 'Region' dropdown menu, a 'CC E-mail' text box, and two more text boxes for 'Memory Module Manufacture' and 'Power Supply Manufacture/model'. At the bottom are 'Send', 'Save As...', and 'Exit' buttons. Annotations with arrows point to these elements: 'This block will show the information which would be collected in the mail.' points to the system information text box; '*Describe condition of your system.' points to the Symptom Description text area; '*Select your area or the area close to you.' points to the Region dropdown; 'Provide the e-mail address that you would like to send the copy to.' points to the CC E-mail text box; '*Provide the name of the memory module manufacturer.' points to the Memory Module Manufacture text box; 'Provide the name of the power supply manufacturer and the model no.' points to the Power Supply Manufacture/model text box; 'Send the mail out.' points to the Send button; 'Exit this dialog.' points to the Exit button; and 'Save these information to a .txt file' points to the Save As... button.

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.

4.3 BIOS UPDATE

There are three ways to update the BIOS:
BIOS Update Utility, BIOS Online Update Utility and BIOS Flasher.

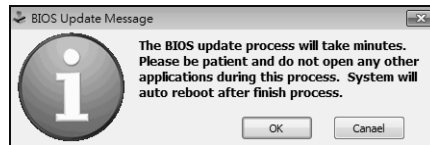
1. BIOS Update Utility

1. Installing BIOS Update Utility from the DVD Driver.
2. Download the proper BIOS from www.biostar.com.tw.

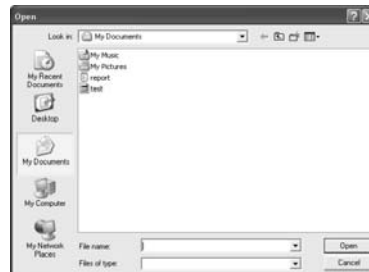
3. Open BIOS Update Utility and click the **Update BIOS** button on the main screen.



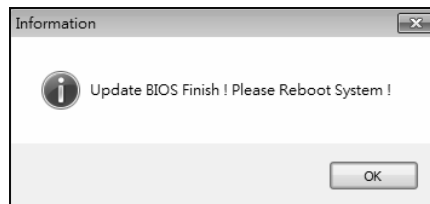
4. A warning message will show up to request your agreement to start the BIOS update. Click **Yes** to start the update procedure.



5. Choose the location for your BIOS file in the system. Please select the proper BIOS file, and then click on **Open**. It will take several minutes, please be patient.



6. After the BIOS Update process is finished, click on **OK** to reboot the system.



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

After entering the BIOS setup, please go to the **Save & Exit**, using the **Restore Defaults** function to load Optimized Defaults, and select **Save Changes and Reset** to restart the computer. Then, the BIOS Update is completed.

Backup BIOS

Click the Backup BIOS button on the main screen for the backup of BIOS, and select a proper location for your backup BIOS file in the system, and click **Save**.



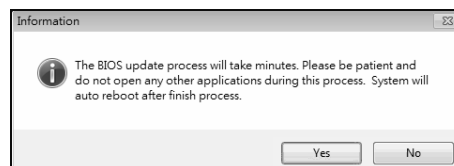
2. Online Update Utility

1. Installing BIOS Update Utility from the DVD Driver.
2. Please make sure the system is connected to the internet before using this function.

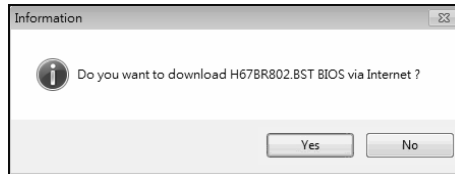
3. Open BIOS Update Utility and click the **Online Update** button on the main screen.



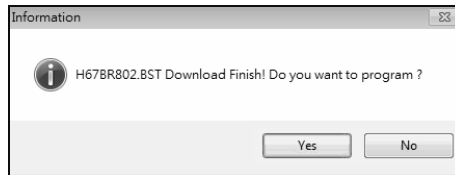
4. An open dialog will show up to request your agreement to start the BIOS update. Click **Yes** to start the online update procedure.



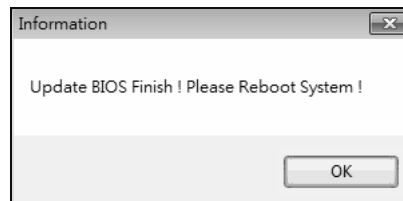
5. If there is a new BIOS version, the utility will ask you to download it. Click **Yes** to proceed.




6. After the download is completed, you will be asked to program (update) the BIOS or not. Click **Yes** to proceed.



7. After the updating process is finished, you will be asked you to reboot the system. Click **OK** to reboot.



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

After entering the BIOS setup, please go to the **Save & Exit**, using the **Restore Defaults** function to load Optimized Defaults, and select **Save Changes and Reset** to restart the computer. Then, the BIOS Update is completed.

3. BIOSTAR BIOS Flasher

BIOSTAR BIOS Flasher is a BIOS flashing utility providing you an easy and simple way to update your BIOS via USB pen drive.



- 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.

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

Updating BIOS with BIOSTAR BIOS Flasher

1. Go to the website to download the latest BIOS file for the motherboard.
2. Then, copy and save the BIOS file into a USB flash (pen) drive.
3. Insert the USB pen drive that contains the BIOS file to the USB port.
4. Power on or reset the computer and then press <F12> during the **POST** process.

5. After entering the POST screen, the BIOS-FLASHER utility pops out. Choose [fs0] to search for the BIOS file.




6. Select the proper BIOS file, and a message asking if you are sure to flash the BIOS file. Click Yes to start updating BIOS.



7. A dialog pops out after BIOS flash is completed, asking you to restart the system. Press the [Y] key to restart system.



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

After entering the BIOS setup, please go to the **Save & Exit**, using the **Restore Defaults** function to load Optimized Defaults, and select **Save Changes and Reset** to restart the computer. Then, the BIOS Update is completed.



All the information and content about above 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.

4.4 INTEL® SMALL BUSINESS ADVANTAGE

Intel Small Business Advantage (Intel SBA) provides an out-of-the-box hardware-based security and productivity suite designed for the small business user.

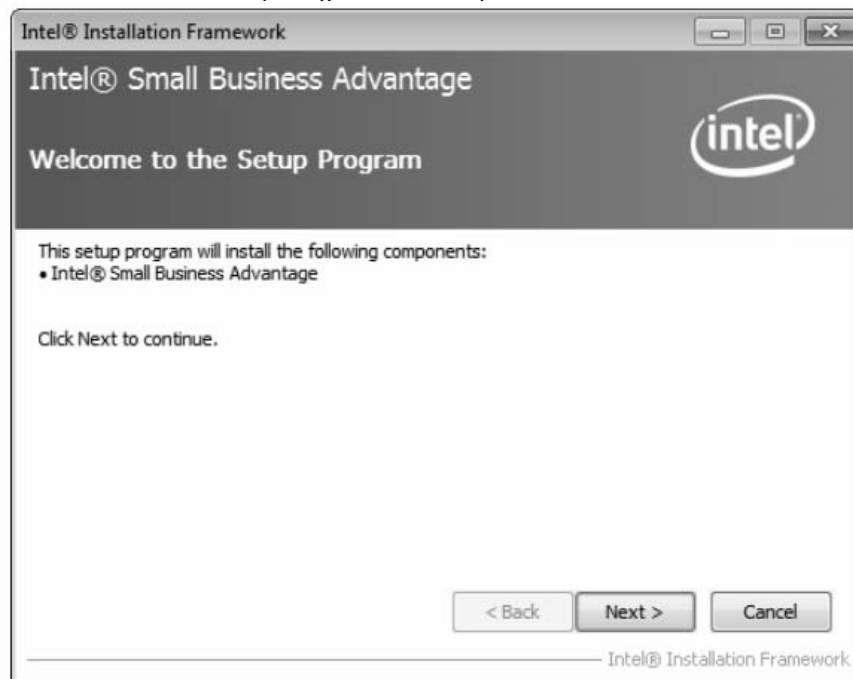
Supported Operating Systems:

- Windows 7 Professional 64-bit and 32-bit
- Windows 7 Enterprise 64-bit

Installing Intel SBA

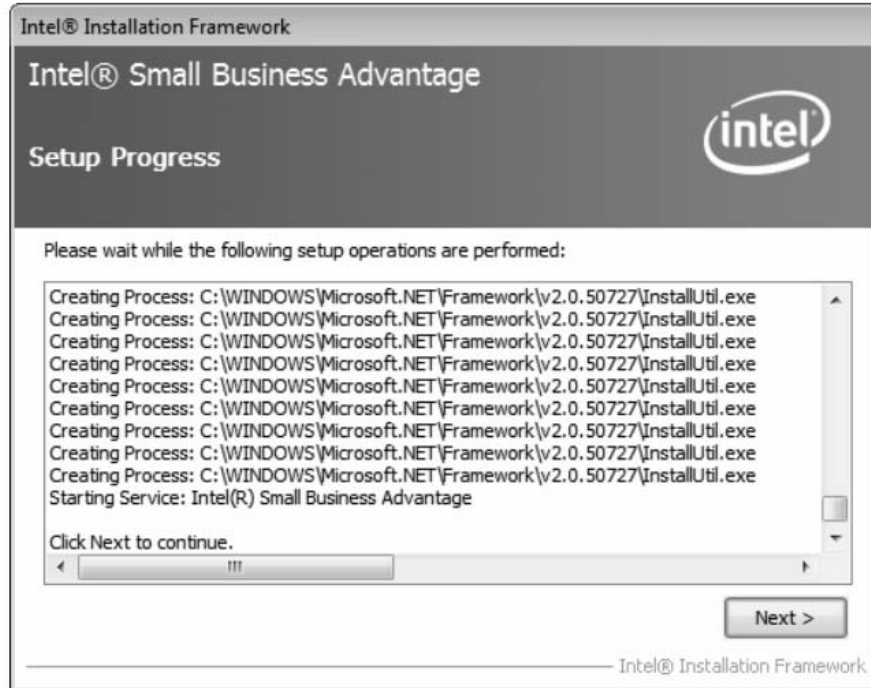
This procedure describes how to install Intel SBA.

1. Logon to the computer with a user that has administrator privileges.
2. Copy the Setup.exe file to the computer.
3. Double-click Setup.exe.
The Welcome to the Setup Program window opens.



Motherboard Manual

4. Click Next. The installer starts the installation and the Setup Progress window opens showing the progress of the installation. When installation is complete, the installer starts the Intel SBA service and the Next button is enabled.



5. Click Next. The Setup Is Complete window opens.
6. Click Finish. The installer closes.

4.5 EXTRA INFORMATION

CPU Overheated

If the system shuts down automatically after system is powered on for seconds, the phenomenon 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.

4.6 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"> ● If beep codes are generated when all other expansion cards are absent, consult your system manufacturer's technical support. ● 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.
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.

4.7 TROUBLESHOOTING

Probable	Solution
<ol style="list-style-type: none"> 1. There is no power in the system. Power LED does not shine; the fan of the power supply does not work 2. Indicator light on keyboard does not shine. 	<ol style="list-style-type: none"> 1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support.
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"> 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 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"> 1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
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"> 1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

APPENDIX: SPEC IN OTHER LANGUAGES

GERMAN

<i>Spezifikationen</i>		
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron Prozessoren (TDP: 95W)	Unterstützt Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading
Chipsatz	B75	
Super E/A	IT8728F-EX 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	DDR3 DIMM-Steckplätze x 2 Max. 16GB Arbeitsspeicher Jeder DIMM unterstützt 512MB/ 1GB/2GB/4GB/8GB DDR3.	Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 1066 / 1333 Unterstützt DDR3 1600 (abhängig von CPU) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
SATA 2 & 3	Integrierter Serial ATA-Controller	Datenübertragungsraten bis zu 3.0Gb/s / 6.0Gb/s. Konform mit der SATA-Spezifikation Version 2.0 / 3.0
LAN	Realtek RTL 8111F	10 / 100 / 1000 Mb/s Auto-Negotiation Halb- / Vollduplex-Funktion
HD Audio-Unterstützung	ALC662	Unterstützt High-Definition Audio 5.1-Kanal-Audioausgabe, Biostar Hi-Fi
USB3.0	B75	
Steckplätze	PCI-Steckplatz x2 PCI Express Gen3 x16 Steckplatz x1 PCI Express Gen2 x16 Steckplatz(x4) x1 PCI Express Gen2 x 1-Steckplatz x2	
Onboard-Anschluss	SATA3-Anschluss x1 SATA2-Anschluss x5 Fronttafelanschluss x1 Front-Audioanschluss x1 CPU-Lüfter-Sockel x1	Jeder Anschluss unterstützt 1 SATA3-Laufwerk Jeder Anschluss unterstützt 1 SATA2-Laufwerk Unterstützt die Fronttafel-Funktionen Unterstützt die Fronttafel-Audioanschlussfunktion CPU-Lüfterstromversorgungsanschluss (mit Smart Fan-Funktion)

Spezifikationen			
	System-Lüfter-Sockel	x1	System-Lüfter-Stromversorgungsanschluss
	"CMOS löschen"-Sockel	x1	
	USB2.0-Anschluss	x2	Jeder Anschluss unterstützt 2 Fronttafel-USB2.0-Anschlüsse
	USB3.0-Anschluss	x1	Jeder Anschluss unterstützt 2 Fronttafel-USB3.0-Anschlüsse
	Connecteur de Port d'imprimante	x1	Chaque connector prend en charge 1 Port d'imprimante
	S/PDIF Ausgangsanschluss	x1	Unterstützt die digitale Audioausgabefunktion
	Stromanschluss (24-polig)	x1	
	Stromanschluss (4-polig)	x1	
Rückseiten-E/A	PS/2-Tastatur/ Maus	x1	
	COM-Anschluss	x1	
	LAN-Anschluss	x1	
	USB2.0-Anschluss	x4	
	USB3.0-Anschluss	x2	
	Audioanschluss	x3	
Platinengröße	210 mm (B) X 305 mm (L)		ATX
OS-Unterstützung	Windows XP / Vista / 7		Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

FRENCH

<i>SPEC</i>		
UC	Socket 1155 Processeurs Intel Core i7 / i5 / i3 / Pentium / Celeron (TDP: 95W)	Prend en charge les technologies d'exécution de bit de désactivation / Intel SpeedStep® optimisée/ d'architecture Intel 64 / de mémoire étendue 64 / de virtualisation / Hyper Threading
Chipset	B75	
Super E/S	IT8728F-EX 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 DDR3 DIMM x 2 Capacité mémoire maximale de 16 Go Chaque DIMM prend en charge des DDR3 de 512Mo/1Go/2Go/4Go/8Go	Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 1066 / 1333 Prend en charge la DDR3 1600 (dépend du CPU) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
SATA 2 & 3	Contrôleur Serial ATA intégré :	Taux de transfert jusqu'à 3.0Go/s / 6.0Go/s. Conforme à la spécification SATA Version 2.0 / 3.0
LAN	Realtek RTL 8111F	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, Biostar Hi-Fi
USB3.0	B75	
Fentes	Fente PCI x2 Fente PCI Express Gen3 x16 x1 Fente PCI Express Gen2 x16(x4) x1 Fente PCI Express Gen2 x1 x2	
Connecteur embarqué	Connecteur SATA3 x1 Connecteur SATA2 x5 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1	Chaque connecteur prend en charge 1 périphérique SATA3 Chaque connecteur prend en charge 1 périphérique SATA2 Prend en charge les équipements du panneau avant Prend en charge la fonction audio du panneau avant

SPEC			
	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 USB2.0	x2	Chaque connecteur prend en charge 2 ports USB2.0 de panneau avant
	Connecteur USB3.0	x1	Chaque connecteur prend en charge 2 ports USB3.0 de panneau avant
	Connecteur de Port d'imprimante	x1	Chaque connecteur prend en charge 1 Port d'imprimante
	Connecteur de sortie S/PDIF	x1	Prend en charge la fonction de sortie audio numérique
	Connecteur d'alimentation (24 broches)	x1	
	Connecteur d'alimentation (4 broches)	x1	
E/S du panneau arrière	Clavier PS/2 Clavier/ Souris	x1	
	Port COM	x1	
	Port LAN	x1	
	Port USB2.0	x4	
	Port USB3.0	x2	
	Fiche audio	x3	
Dimensions de la carte	210 mm (l) X 305 mm (H)		ATX
Support SE	Windows XP / Vista / 7		Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis

ITALIAN

SPECIFICA		
CPU	Socket 1155 Processore Intel Core i7 / i5 / i3 / Pentium / Celeron(TDP: 95W)	Supporto di Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64 / Tecnologia Virtualization / Hyper Threading
Chipset	B75	
Super I/O	IT8728F-EX 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 DDR3 x 2 Capacità massima della memoria 16GB Ciascun DIMM supporta DDR3 512MB/1GB/2GB/4GB/8GB	Modulo di memoria DDR3 a canale doppio Supporto di DDR3 1066 / 1333 Supporto di DDR3 1600 (dipende dalla CPU) DIMM registrati e DIMM ECC non sono supportati
SATA 2 & 3	Controller Serial ATA integrato	Velocità di trasferimento dei dati fino a 3.0Gb/s / 6.0Gb/s. Compatibile specifiche SATA Versione 2.0/3.0
LAN	Realtek RTL 8111F	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, Biostar Hi-Fi
USB3.0	B75	Velocità di trasferimento dati fino a 600 MB / s
Alloggi	Alloggio PCI x2 Alloggio PCI Express Gen3 x16 x1 Alloggio PCI Express Gen2 x16(x4) x1 Alloggio PCI Express Gen2 x1 x2	
Connettori su scheda	Connettore SATA3 x1 Connettore SATA2 x5 Connettore pannello frontale x1 Connettore audio frontale x1 Collettore ventolina CPU x1 Collettore ventolina sistema x1 Collettore cancellazione CMOS x1	Ciascun connettore supporta 1 unità SATA3 Ciascun connettore supporta 1 unità SATA2 Supporta i servizi del pannello frontale Supporta la funzione audio pannello frontale Alimentazione ventolina CPU (con funzione Smart Fan) Alimentazione ventolina di sistema

SPECIFICA			
	Connettore USB2.0	x2	Ciascun connettore supporta 2 porte USB2.0 pannello frontale
	Connettore USB3.0	x1	Ciascun connettore supporta 2 porte USB3.0 pannello frontale
	Connettore Porta stampante	x1	Ciascun connettore supporta 1 Porta stampante
	Connettore output S/PDIF	x1	Supporta la funzione d'output audio digitale
	Connettore alimentazione (24 pin)	x1	
	Connettore alimentazione (4 pin)	x1	
I/O pannello posteriore	Tastiera/ Mouse PS/2	x1	
	Porta COM	x1	
	Porta LAN	x1	
	Porta USB2.0	x4	
	Porta USB3.0	x2	
	Connettore audio	x3	
Dimensioni scheda	210 mm (larghezza) x 305 mm (altezza)		ATX
Sistemi operativi supportati	Windows XP / Vista / 7		Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

Especificación		
CPU	Socket 1155 Procesador Intel Core i7 / i5 / i3 / Pentium / Celeron (TDP: 95W)	Admite Bit de deshabilitación de ejecución / Intel SpeedStep® Mejorado / Intel Architecture-64 / Tecnología Extended Memory 64 / Tecnología de virtualización / Hyper Threading
Conjunto de chips	B75	
Súper E/S	IT8728F-EX 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 DDR3 x 2 Capacidad máxima de memoria de 16GB Cada DIMM admite DDR de 512MB/1GB/2GB/4GB/8GB	Módulo de memoria DDR3 de canal Doble Admite DDR3 de 1066 / 1333 Admite DDR3 de 1600(depends de la CPU) No admite DIMM registrados o DIMM compatibles con ECC
SATA 2 & 3	Controlador ATA Serie Integrado	Tasas de transferencia de hasta 3.0 Gb/s / 6.0 Gb/s. Compatible con la versión SATA 2.0 / 3.0.
Red Local	Realtek RTL 8111F	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, Biostar Hi-Fi
USB3.0	B75	
Ranuras	Ranura PCI X2 Ranura PCI Express Gen3 x16 X1 Ranura PCI Express Gen2 x16(x4) X1 Ranura PCI Express Gen2 x 1 X2	
Conectores en placa	Conector SATA3 X1 Conector SATA2 X5 Conector de panel frontal X1 Conector de sonido frontal X1 Cabecera de ventilador de CPU X1 Cabecera de ventilador de sistema X1	Cada conector soporta 1 dispositivos SATA3 Cada conector soporta 1 dispositivos SATA2 Soporta instalaciones en el panel frontal Soporta funciones de sonido en el panel frontal Fuente de alimentación de ventilador de CPU (con función Smart Fan) Fuente de alimentación de ventilador de sistema

Especificación			
	Cabecera de borrado de CMOS	X1	
	Conector USB2.0	X2	Cada conector soporta 2 puertos USB2.0 frontales
	Conector USB3.0	X1	Cada conector soporta 2 puertos USB3.0 frontales
	Conector Puerto de impresora	X1	Cada conector soporta 1 Puerto de impresora
	Conector de salida S/PDIF	X1	Soporta función de salida de sonido digital
	Conector de alimentación (24 patillas)	X1	
	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Teclado/ Ratón PS/2	X1	
	Puerto COM	X1	
	Puerto de red local	X1	
	Puerto USB2.0	X4	
	Puerto USB3.0	X2	
	Conector de sonido	X1	
Tamaño de la placa	210 mm. (A) X 305 Mm. (H)		ATX
Soporte de sistema operativo	Windows XP / Vista / 7		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

PORTUGUESE

ESPECIFICAÇÕES		
CPU	Socket 1155 Processador Intel Core i7 / i5 / i3 / Pentium / Celeron (TDP: 95W)	Suporta as tecnologias Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture -64 / Extended Memory 64 / Virtualization / Hyper Threading
Chipset	B75	
Especificação do Super I/O	IT8728F-EX 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 DDR3 x 2 Capacidade máxima de memória: 16 GB Cada módulo DIMM suporta uma memória DDR3 de 512MB/1GB/2GB/4GB/8GB	Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 1066 / 1333 Suporta módulos DDR3 1600 (depende de CPU) Os módulos DIMM registados e os DIMM ECC não são suportados
SATA 2 & 3	Controlador Serial ATA integrado	Velocidades de transmissão de dados até 3.0 Gb/s / 6.0 Gb/s. Compatibilidade com a especificação SATA versão 2.0 / 3.0.
LAN	Realtek RTL 8111F	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, Biostar Hi-Fi
USB3.0	B75	Taxas de transferência de dados até 600 MB / s
Ranuras	Ranhura PCI x2 Ranhura PCI Express Gen3 x16 x1 Ranhura PCI Express Gen2 x16(x4) x1 Ranhura PCI Express Gen2 x 1 x2	
Conectores na placa	Conector SATA3 x1 Conector SATA2 x5 Conector do painel frontal x1 Conector de áudio frontal x1 Conector da ventoinha da CPU x1	Cada conector suporta 1 dispositivo SATA3 Cada conector suporta 1 dispositivo SATA2 Para suporte de várias funções no painel frontal Suporta a função de áudio no painel frontal Alimentação da ventoinha da CPU (com a função Smart Fan)

ESPECIFICAÇÕES			
	Conector da ventoinha do sistema	x1	Alimentação da ventoinha do sistema
	Conector para limpeza do CMOS	x1	
	Conector USB2.0	x2	Cada conector suporta 2 portas USB2.0 no painel frontal
	Conector USB3.0	x1	Cada conector suporta 2 portas USB3.0 no painel frontal
	Conector da para impressora	x1	Cada conector suporta 1 Porta para impressora
	Conector de saída S/PDIF	x1	Suporta a saída de áudio digital
	Conector de alimentação (24 pinos)	x1	
	Conector de alimentação (4 pinos)	x1	
Entradas/Saídas no painel traseiro	Teclado/ Mouse PS/2	x1	
	Porta COM	x1	
	Porta LAN	x1	
	Porta USB2.0	x4	
	Porta USB3.0	x2	
	Tomada de áudio	x3	
Tamanho da placa	210 mm (L) X 305 mm (A)		ATX
Sistemas operativos suportados	Windows XP / Vista / 7		A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.

POLISH

SPEC		
Procesor	Socket 1155 Procesor Intel Core i7 / i5 / i3 / Pentium / Celeron (TDP: 95W)	Obsługa Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading
Chipset	B75	
Pamięć główna	Gniazda DDR3 DIMM x 2 Maks. wielkość pamięci 16GB Każde gniazdo DIMM obsługuje moduły 512MB/1GB/2GB/4GB/8GB DDR3	Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 1066 / 1333 Obsługa DDR3 1600 (zależy od CPU) Brak obsługi Registered DIMM oraz ECC DIMM
Super I/O	IT8728F-EX 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"
SATA 2 & 3	Zintegrowany kontroler Serial ATA	Transfer danych do 3.0 Gb/s / 6.0 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0 / 3.0.
LAN	Realtek RTL 8111F	10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego duplexu
Obsługa audio HD	ALC662	Obsługa High-Definition Audio 5.1 kanałowe wyjście audio, Biostar Hi-Fi
USB3.0	B75	Cena transferu danych do 600 MB / s
Gniazda	Gniazdo PCI x2 Gniazdo PCI Express Gen3 x16 x1 Gniazdo PCI Express Gen2 x16(x4) x1 Gniazdo PCI Express Gen2 x 1 x2	
Złącza wbudowane	Złącze SATA3 x1 Złącze SATA2 x5 Złącze panela przedniego x1 Przednie złącze audio x1 Złącze główkowe wentylatora procesora x1 Złącze główkowe wentylatora systemowego x1	Każde złącze obsługuje 1 urządzenie SATA3 Każde złącze obsługuje 1 urządzenie SATA2 Obsługa elementów panela przedniego Obsługa funkcji audio na panelu przednim Zasilanie wentylatora procesora (z funkcją Smart Fan) Zasilanie wentylatora systemowego

SPEC			
	Złącze główkowe kasowania CMOS	x1	
	Złącze USB2.0	x2	Każde złącze obsługuje 2 porty USB2.0 na panelu przednim
	Złącze USB3.0	x1	Każde złącze obsługuje 2 porty USB3.0 na panelu przednim
	Złącze Port drukarki	x1	Każde złącze obsługuje 1 Port drukarki
	Złącze wyjścia S/PDIF	x1	Obsługa funkcji cyfrowego wyjścia audio
	Złącze zasilania (24 pinowe)	x1	
	Złącze zasilania (4 pinowe)	x1	
Back Panel	Klawiatura/ Myszka PS/2	x1	
I/O	Port COM	x1	
	Port LAN	x1	
	Port USB2.0	x4	
	Port USB3.0	x2	
	Gniazdo audio	x3	
Wymiary płyty	210 mm (S) X 305 mm (W)		ATX
Obsługa systemu operacyjnego	Windows XP / Vista / 7		Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

RUSSIAN

СПЕЦ		
СРU (центральный процессор)	Socket 1155 Процессор Intel Core i7 / i5 / i3 / Pentium / Celeron (TDP: 95W)	Поддержка технологий Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / технологии виртуализация / Hyper Threading
Набор микросхем	B75	
Основная память	Слоты DDR3 DIMM x 2 Максимальная ёмкость памяти 16 ГБ Каждый модуль DIMM поддерживает 512МБ/1ГБ/2ГБ/4ГБ/8 ГБ DDR3	Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 1066 / 1333 Поддержка DDR3 1600(в зависимости от процессора) Не поддерживает зарегистрированные модули DIMM and ECC DIMM
Super I/O	IT8728F-EX 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)
SATA 2 & 3	Встроенное последовательное устройство управления ATA	скорость передачи данных до 3.0 гигабит/с / 6.0 гигабит/с. Соответствие спецификации SATA версия 2.0/3.0
Локальная сеть	Realtek RTL 8111F	Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность
Звуковая поддержка жесткого диска	ALC662	Звуковая поддержка High-Definition 5.1канальный звуковой выход, Biostar Hi-Fi
USB3.0	B75	скорости передачи данных до 600 МБ / с
Слоты	Слот PCI x2 Слот PCI Express Gen3 x16 x1 Слот PCI Express Gen2 x16(x4) x1 Слот PCI Express Gen2 x 1 x2	
Встроенный разъём	Разъём SATA3 x1 Разъём SATA2 x5 Разъём на лицевой панели x1 Входной звуковой разъём x1	Каждый разъём поддерживает 1 устройство SATA3 Каждый разъём поддерживает 1 устройство SATA2 Поддержка устройств на лицевой панели Поддержка звуковых функций на лицевой панели

СПЕЦ			
	Контактирующее приспособление вентилятора центрального процессора	x1	Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора)
	Контактирующее приспособление вентилятора системы	x2	Источник питания для вентилятора системы
	Открытое контактирующее приспособление CMOS	x1	
	USB2.0-разъём	x2	Каждый разъём поддерживает 2 USB2.0-порта на лицевой панели
	USB3.0-разъём	x1	Каждый разъём поддерживает 2 USB3.0-порта на лицевой панели
	Разъём Порт подключения принтера	x1	Каждый разъём поддерживает 1 Порт подключения принтера
	Разъём вывода для S/PDIF	x1	Поддержка вывода цифровой звуковой функции
	Разъём питания (24 вывод)	x1	
	Разъём питания (4 вывод)	x1	
Задняя панель средств ввода-вывода	клавиатура/ мышь PS/2	x1	
	Порт COM	x1	
	Порт LAN	x1	
	USB2.0-порт	x4	
	USB3.0-порт	x2	
	Гнездо для подключения наушников	x3	
Размер панели	210 мм (Ш) X 305 мм (В)		ATX
Поддержка OS	Windows XP / Vista / 7		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.

ARABIC

المواصفات		
Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron (TDP: 95W) يتردد يصل إلى	وحدة المعالجة المركزية
B75 مجموعة الشرائح		
عدد2 قحّة DDR3 DIMM سعة ذاكرة قصوى 16 جيجا بليت ميجا بليت و1/5/12 سعة DDR3 تدعم ذاكرة من نوع DIMM تدعم كل قحّة و2/4/8 جيجا بليت	مزوجة لقاعة DDR3 وحدة ذاكرة سعت 1333 / 1066 ميجا بليت DDR3 تدعم الذاكرة من نوع وحدة على يعتمد) 1600 سعات DDR3 نوع من الذاكرة تدعم بليت ميجا (المركزية المعالجة ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة	الذاكرة الرئيسية
وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة ITE من "Smart Guardian" وظيفة	IT8728F-EX الأكثر استخداماً Super I/O يوفر وظيفة Low Pin Count Interface تدعم تقنية	Super I/O
ثابتة/جيجابت 6.0 / ثابتة/جيجابت 3.0 إلى تصل بسرعات البيانات نقل الإصدار SATA 2.0 / 3.0 مطابقة لمواصفات	متكامل Serial ATA متحكم	SATA 2 & 3
تفاوض تلقائي 100/10 ميجا بليت / ثابتة و1 جيجا بليت/ثابتة إمكانية النقل المزدوج الكامل/القصفي	Realtek RTL 8111F	شبكة داخلية
تدعم تقنية الصوت عالي التعريف من Biostar Hi-Fi , قوتك لخرج الصوت 5.1	ALC662	دعم الصوت عالي التعريف
ثابتة / بليت ميغا 600 إلى تصل بيانات نقل معدلات	B75	USB3.0
عدد2 قحّة PCI عدد1 قحّة PCI Express x16 Gen3 عدد1 قحّة PCI Express (x4)x16 Gen2 عدد2 قحّة PCI Express Gen2 x1	قحّة PCI قحّة PCI Express x16 Gen3 قحّة PCI Express (x4)x16 Gen2 قحّة PCI Express Gen2 x1	القحّات
يدعم كل منفذ واحد من أجهزة SATA3 يدعم كل منفذ واحد من أجهزة SATA2 يدعم تجهيزات اللوحة الأملمية يدعم وظيفة الصوت باللوحة الأملمية لتوصيل الطاقة لمروحة وحدة المعالجة مع وظيفة Smart Fan لتوصيل الطاقة لمروحة النظام	عدد1 منفذ SATA3 عدد5 منفذ SATA2 عدد1 منفذ اللوحة الأملمية عدد1 منفذ الصوت الأملمي عدد1 وصلة مروحة وحدة المعالجة المركزية عدد1 وصلة مروحة النظام	المنفذ على سطح اللوحة منفذ اللوحة الأملمية منفذ الصوت الأملمي وصلة مروحة وحدة المعالجة المركزية وصلة مروحة النظام

المواصفات		
وصلة مسح CMOS	عدد 1	
منفذ USB2.0	عدد 2	يدعم كل منفذ قحني USB2.0 باللوحة الاملمية
منفذ USB3.0	عدد 1	يدعم كل منفذ قحني USB3.0 باللوحة الاملمية
منفذ طباعة	عدد 1	
منفذ خرج S/PDIF	عدد 1	يدعم وظيفة خرج الصوت الرقمي
منفذ توصيل الطاقة (24دبوس)	عدد 1	
منفذ توصيل الطاقة (8دبابيس)	عدد 1	
لوحة المفاتيح للكمبيوتر/الفارة	عدد 1	
منافذ COM	عدد 1	
منفذ دخل/مخرج	عدد 1	منفذ شبكة اتصال محلية
اللوحة الخلفية	عدد 4	منافذ USB2.0
	عدد 2	منافذ USB3.0
	عدد 3	مقيس صوت
حجم اللوحة	305 مم (عرض) X 210 مم (ارتفاع)	ATX
دعم أنظمة التشغيل	Windows XP / Vista / 7	بحقها في اإضافة أو إزالة الدعم لأي نظام تشغيل باخطار أو Biostar حفظ بدون إخطار .

JAPANESE

仕様		
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron プロセッサ (TDP: 95W)	Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threadingをサポートします
チップセット	B75	
メインメモリ	DDR3 DIMMスロット x 2 最大メモリ容量16GB 各DIMMは 512MB/1GB/2GB/4GB/8GB DDR3をサポート	デュアルチャンネルモードDDR3メモリモジュール DDR3 1066 / 1333 をサポート DDR3 1600(CPUに依存) 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	IT8728F-EX 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
SATA 2 & 3	統合シリアルATAコントローラ	最高3.0 Gb/秒 / 6.0 Gb/秒のデータ転送速度 SATAバージョン2.0 / 3.0仕様に準拠。
LAN	Realtek RTL 8111F	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, Biostar Hi-Fi
USB3.0	B75 データ転送速度最大600 MB / 秒の	
スロット	PCIスロット x2 PCI Express Gen3 x16スロット x1 PCI Express Gen2 x16スロット(x4) x1 PCI Express Gen2 x 1スロット x2	
オンボードコネクタ	SATA3コネクタ x1 SATA2コネクタ x5 フロントパネルコネクタ x1 フロントオーディオコネクタ x1 CPUファンヘッダ x1 システムファンヘッダ x1 CMOSクリアヘッダ x1	各コネクタは1つのSATA3デバイスをサポートします 各コネクタは1つのSATA2デバイスをサポートします フロントパネル機能をサポートします フロントパネルオーディオ機能をサポートします CPUファン電源装置(スマートファン機能を搭載) システムファン電源装置

仕様			
	USB2.0コネクタ	x2	各コネクタは2つのフロントパネルUSB2.0ポートをサポートします
	USB3.0コネクタ	x1	各コネクタは2つのフロントパネルUSB3.0ポートをサポートします
	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
	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
	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	PS/2 キーボード/マウス	x1	
I/O	COMポート	x1	
	LANポート	x1	
	USB2.0ポート	x4	
	USB3.0ポート	x2	
	オーディオジャック	x3	
ボードサイズ	210 mm (幅) X 305 mm (高さ)		ATX
OSサポート	Windows XP / Vista / 7		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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