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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.
- To avoid injury, be careful of:
  - Sharp pins on headers and connectors
  - Rough edges and sharp corners on the chassis
  - Damage to wires that could cause a short circuit

### **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

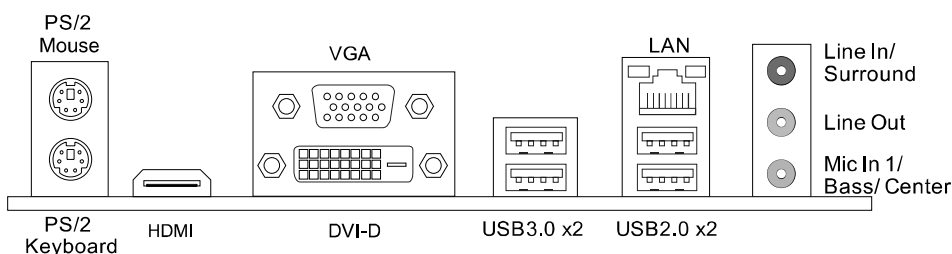
**Note:** The package contents may be different due to the sales region or models in which it was sold. For more information about the standard package in your region, please contact your dealer or sales representative.

## 1.3 Motherboard Specifications

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 8111G		10 / 100 Mb/s / 1Gb/s auto negotiation Half / Full duplex capability
Sound Codec	ALC892		7.1 channels audio out (2-channel output is from front audio header) High Definition Audio, Biostar Hi-Fi
USB3.0	B75		Data transfer rates up to 600 MB/s
Slots	PCI slot	x1	Supports PCI expansion cards
	PCI Express Gen3 x 16 slot	x1	Supports PCI-E Gen3 x16 expansion card
	PCI Express Gen2 x 1 slot	x2	Supports PCI-E Gen2 x1 expansion cards
On Board Connectors	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
	Front Audio Connector	x1	Supports front panel audio function
	CPU Fan Header	x1	CPU Fan power supply (with Smart Fan function)
	System Fan Header	x2	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
	Consumer IR Connector	x1	Supports infrared function
	Serial Port Connector	x1	Connects to RS-232 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
	HDMI Port	x1	Connects to HDMI cable

SPEC			
	VGA Port	x1	Connect to D-SUB monitor
	DVI Port	x1	Connect to DVI monitor
	LAN port	x1	Connect to RJ-45 Ethernet cable
	USB2.0 Port	x2	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	200 (W) x 244 (L) mm		uATX
OS Support	Windows XP / Vista / 7 / 8		Biostar reserves the right to add or remove support for any OS with or without notice

## 1.4 Rear Panel Connectors



- Note1:** HDMI, DVI-D & VGA ports only work with an Intel integrated Graphics Processor
- Note2:** USB3.0 ports (only supported by Windows 7/8) are backward compatible with USB2.0/USB1.X devices.
- Note3:** Maximum resolution:  
HDMI: 1920 x 1200 @60Hz, compliant with HDMI 1.4a  
DVI: 1920 x 1200 @60Hz  
VGA: 2048 x 1536 @75Hz
- Note4:** This motherboard supports dual video output:

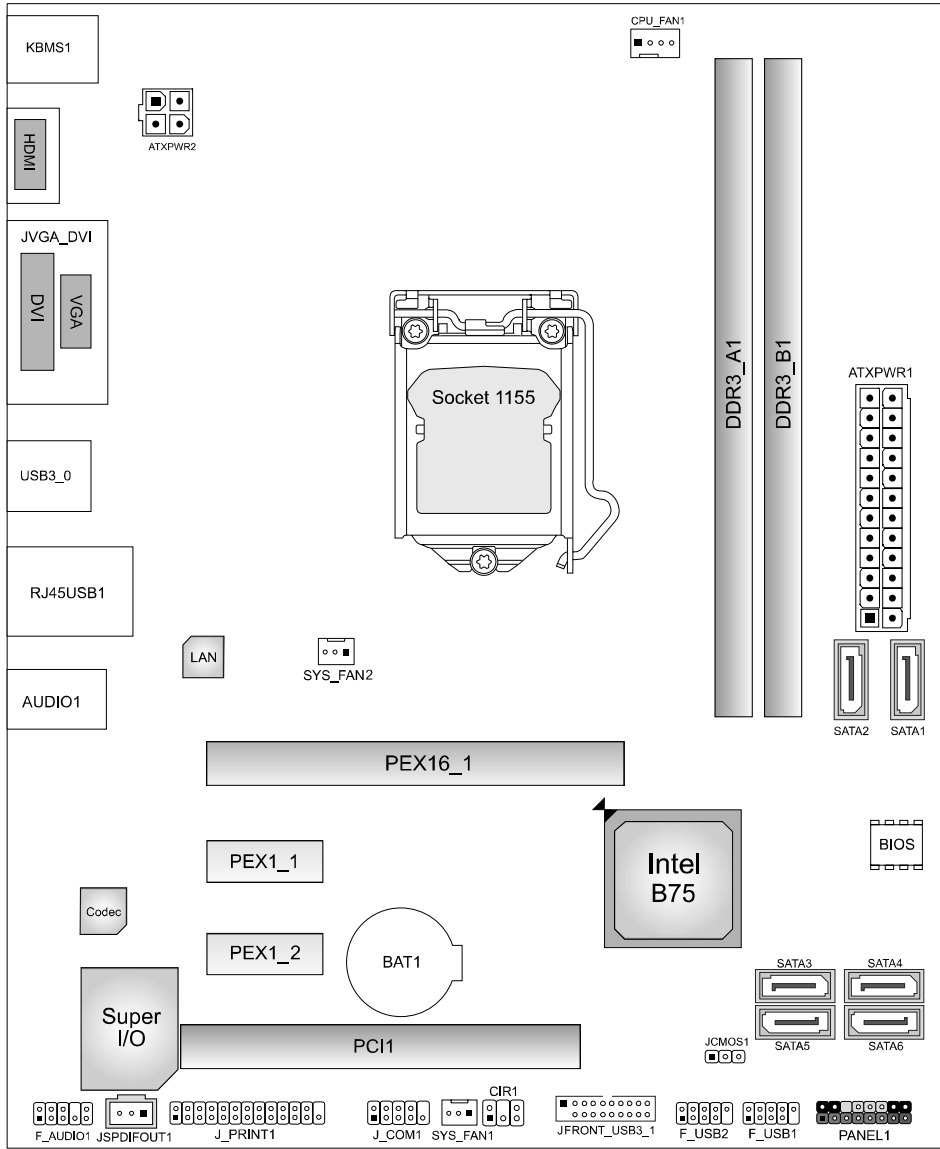
Display Devices	VGA	DVI-D	HDMI
VGA	X	O	O
DVI-D	O	X	O
HDMI	O	O	X

- Note5:** To configure 7.1-channel audio, you have to use a chassis with HD front panel audio module and enable the multi-channel audio feature through O.S. Audio Utility.

### The 2/ 4/ 5.1/7.1-channel configuration

Port	2-channel	4-channel	5.1 channel	7.1 channel
Blue (Rear Panel)	Line In	Rear Speaker Out	Rear Speaker Out	Rear Speaker Out
Green (Rear Panel)	Line Out	Front Speaker Out	Front Speaker Out	Front Speaker Out
Pink (Rear Panel)	Mic In	Mic In	Center/Subwoofer Out	Center/Subwoofer Out
Green (Front Panel)	--	--	--	Side Speaker Out

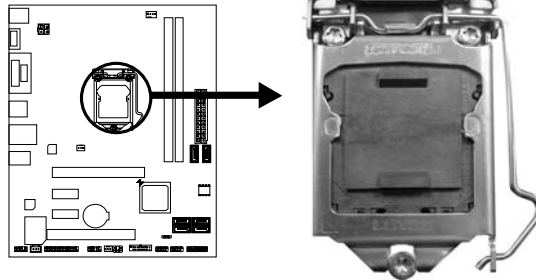
## 1.5 Motherboard Layout



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

## CHAPTER 2: HARDWARE INSTALLATION

### 2.1 Installing Central Processing Unit (CPU)

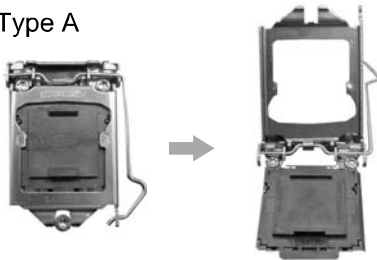


**Note:**

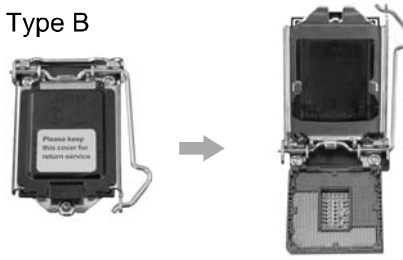
1. Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.
2. The motherboard might equip with two different types of pin cap. Please refer below instruction to remove the pin cap.

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

Type A

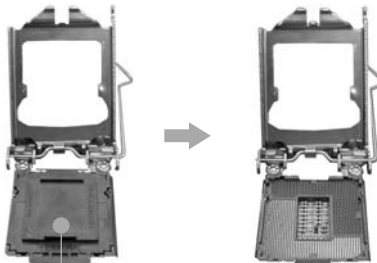


Type B



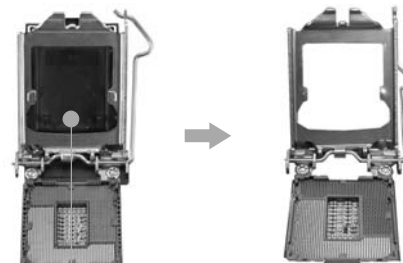
**Step 2:** Remove the Pin Cap.

Type A



Pin Cap

Type B



Pin Cap

## Motherboard Manual

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**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.



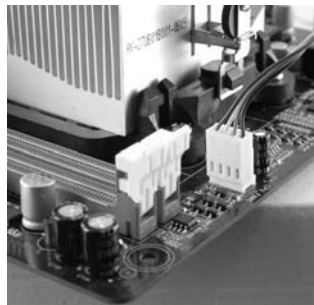
**Note1:** The LGA1150 CPU is not compatible with LGA 1155 socket. Do not install a LGA 1150 CPU on the LGA 1155 socket.

**Note2:** The CPU fits only in one correct orientation. Do not force the CPU into the socket to prevent damaging the CPU.

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



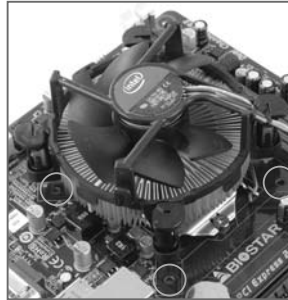
**Step 5:** Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the CPU\_FAN1 to complete the installation.



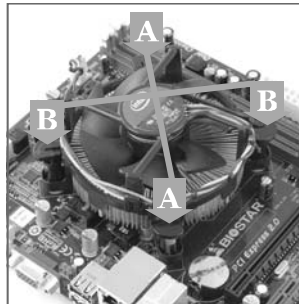


## 2.2 Install a Heatsink

**Step 1:** Place the CPU fan assembly on top of the installed CPU and make sure that the four fasteners match the motherboard holes. Orient the assembly and make the fan cable is closest to the CPU fan connector.



**Step 2:** Press down two fasteners at one time in a diagonal sequence to secure the CPU fan assembly in place. Ensure that all four fasteners are secured.



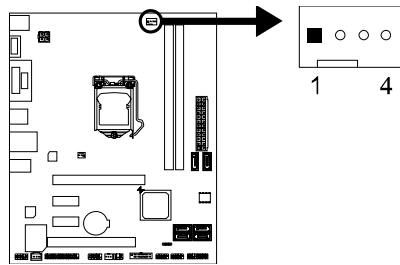
**Note1:** Do not forget to connect the CPU fan connector.

**Note2:** For proper installation, please kindly refer to the installation manual of your CPU heatsink.

## 2.3 Connect Cooling Fans

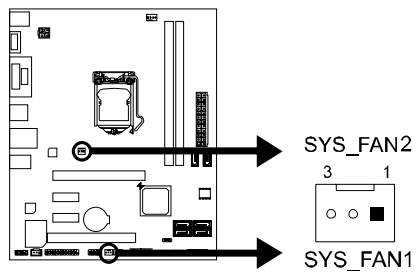
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer.

### CPU\_FAN1: CPU Fan Header



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

### SYS\_FAN1/2: System Fan Headers

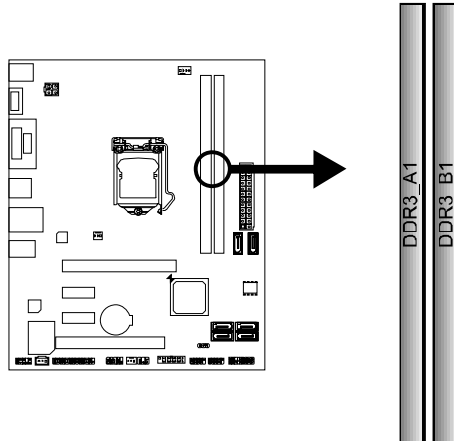


Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

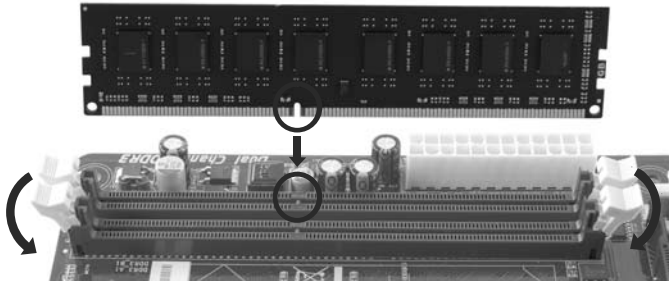
**Note:** The SYS\_FAN1/2 supports 3-pin head connectors; the CPU\_FAN1 supports 4-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

## 2.4 Installing System Memory

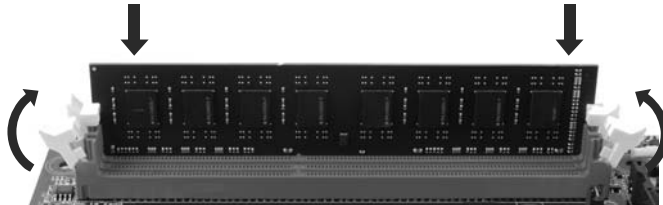
### Memory Modules



**Step 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.



**Step 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.

### 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	

### 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 means memory not installed.)

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

## 2.5 Expansion Slots

### Install an Expansion Card

You can install your expansion card by following steps:

1. Read the related expansion card's instruction document before install the expansion card into the computer.
2. Remove your computer's chassis cover, screws and slot bracket from the computer.
3. Place a card in the expansion slot and press down on the card until it is completely seated in the slot.
4. Secure the card's metal bracket to the chassis back panel with a screw.
5. Replace your computer's chassis cover.
6. Power on the computer, if necessary, change BIOS settings for the expansion card.
7. Install related driver for the expansion card.

**PEX16\_1: PCI-Express Gen3 x16 Slot**

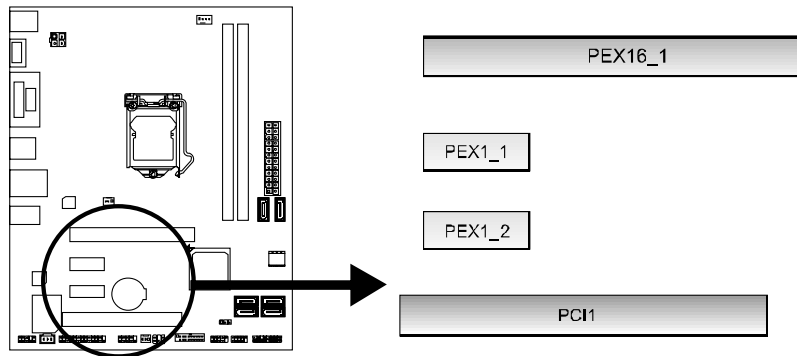
- PCI-Express 3.0 compliant.
- Maximum theoretical realized bandwidth of 16GB/s simultaneously per direction, for an aggregate of 32GB/s totally.

**PEX1\_1/1\_2: PCI-Express Gen2 x1 Slots**

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

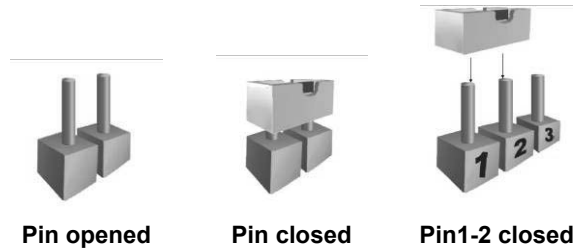
**PCI1: Peripheral Component Interconnect Slot**

The PCI slot supports cards used in PCs include: LAN cards, sound cards, modems, TV tuner cards and other cards that comply PCI standard.



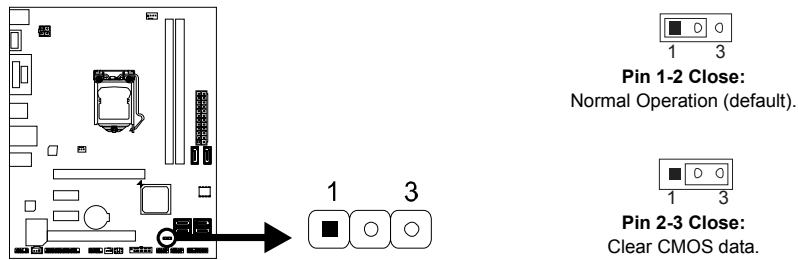
## 2.6 Jumper Setting

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”.



### JCMOS1: Clear CMOS Jumper

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



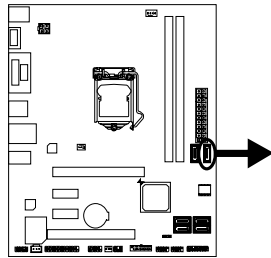
#### ※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to “Pin 2-3 close”.
3. Wait for five seconds.
4. Set the jumper to “Pin 1-2 close”.
5. Power on the AC.
6. Load Optimal Defaults and save settings in CMOS.

## 2.7 Headers & Connectors

### SATA1: Serial ATA3.0 Connector

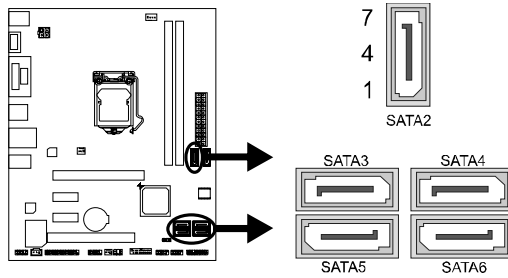
The connector connects to SATA hard disk drives via SATA cables. Those satisfy the SATA 3.0 spec and with transfer rate of 6.0Gb/s.



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

### SATA2 ~ 6: Serial ATA2.0 Connectors

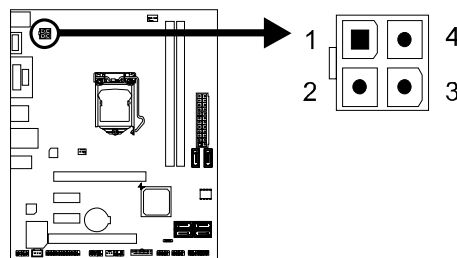
These connectors connect to SATA hard disk drives via SATA cables. Those satisfy the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



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

### ATXPWR2: ATX Power Source Connector

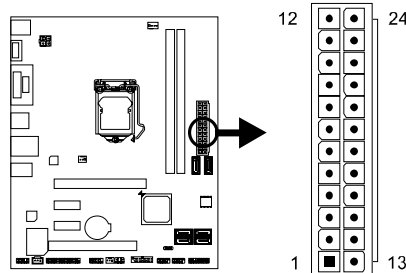
This connector provides +12V to CPU power circuit.



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

### ATXPWR1: ATX Power Source Connector

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

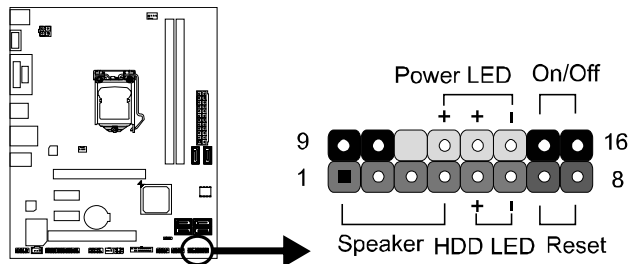


Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

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

### 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.

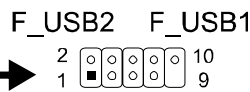
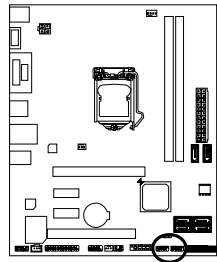


Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	N/A	N/A
2	N/A		10	N/A	N/A
3	N/A		11	N/A	N/A
4	Speaker	Hard drive LED	12	Power LED (+)	Power LED
5	HDD LED (+)		13	Power LED (+)	
6	HDD LED (-)	Reset button	14	Power LED (-)	
7	Ground		15	Power button	Power-on button
8	Reset control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



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

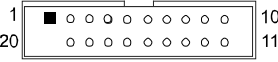
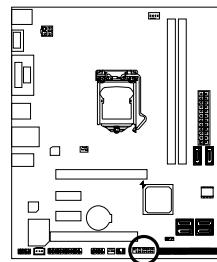
These headers allow user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



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

### 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.

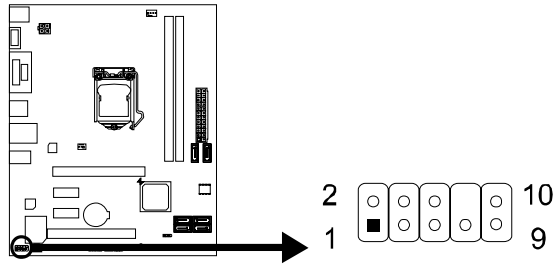


Pin	Assignment	Pin	Assignment
1	VBUS0	11	D2+
2	SSRX1-	12	D2-
3	SSRX1+	13	Ground
4	Ground	14	SSTX2+
5	SSTX1-	15	SSTX2-
6	SSTX1+	16	Ground
7	Ground	17	SSRX2+
8	D1-	18	SSRX2-
9	D1+	19	VBUS1
10	ID	20	Key

**Note:** USB3.0 is only supported by Windows 7/8.

### 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.

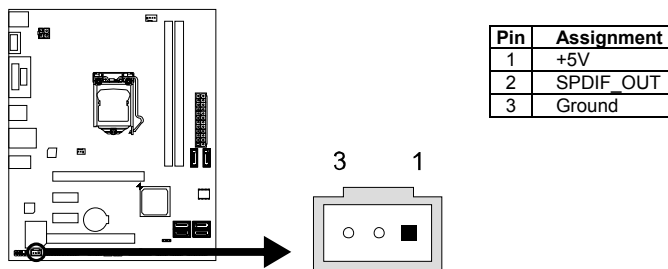


HD Audio		AC'97	
Pin	Assignment	Pin	Assignment
1	Mic Left in	1	Mic In
2	Ground	2	Ground
3	Mic Right in	3	Mic Power
4	GPIO	4	Audio Power
5	Right line in	5	RT Line Out
6	Jack Sense	6	RT Line Out
7	Front Sense	7	Reserved
8	Key	8	Key
9	Left line in	9	LFT Line Out
10	Jack Sense	10	LFT Line Out

- 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.
- Note3:** To configure 7.1-channel audio, you have to use a chassis with HD front panel audio module and enable the multi-channel audio feature through O.S. Audio Utility.

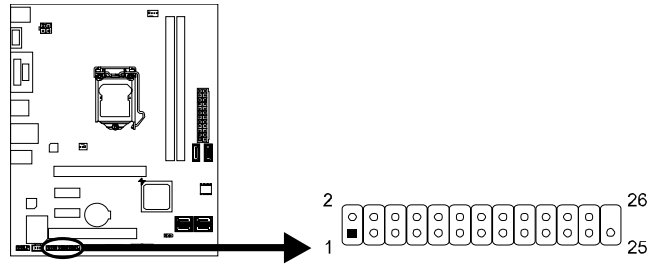
### JSPDIFOUT1: Digital Audio-out Connector

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



### J\_PRINT1: Printer Port Connector

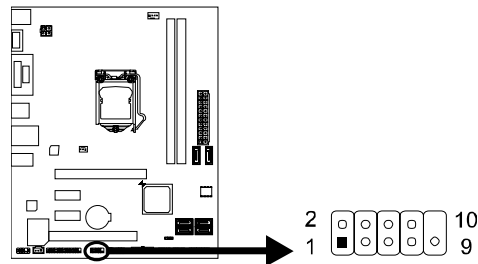
This header allows you to connector printer on the PC.



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	-Scltin	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

### J\_COM1: Serial Port Header

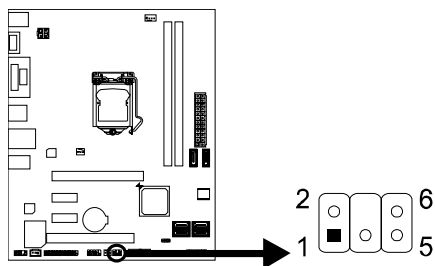
The motherboard has a serial port header for connecting RS-232 Port.



Pin	Assignment
1	Carrier detect
2	Received data
3	Transmitted data
4	Data terminal ready
5	Signal ground
6	Data set ready
7	Request to send
8	Clear to send
9	Ring indicator
10	NC

### CIR1: Consumer IR Header

This header is for infrared remote control and communication.



Pin	Assignment
1	IrDA serial input
2	Ground
3	Ground
4	Key
5	IrDA serial output
6	IR Power

## CHAPTER 3: UEFI BIOS & SOFTWARE

### 3.1 UEFI BIOS Setup

- The BIOS Setup program can be used to view and change the BIOS settings for the computer. The BIOS Setup program is accessed by pressing the <DEL> key after the Power-On Self-Test (POST) memory test begins and before the operating system boot begins.
- For further information of setting up the UEFI BIOS, please refer to the UEFI BIOS Manual in the Setup DVD.

### 3.2 BIOS Update

The BIOS can be updated using either of the following utilities:

- **BIOSTAR BIOS Flasher:** Using this utility, the BIOS can be updated from a file on a hard disk, a USB drive (a flash drive or a USB hard drive), or a CD-ROM.
- **BIOSTAR BIOS Update Utility:** It enables automated updating while in the Windows environment. Using this utility, the BIOS can be updated from a file on a hard disk, a USB drive (a flash drive or a USB hard drive), or a CD-ROM, or from the file location on the Web.

#### **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.

**Note1:** This utility only allows storage device with FAT32/16 format and single partition.

**Note2:** Shutting down or resetting the system while updating the BIOS will lead to system boot failure.

#### **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.

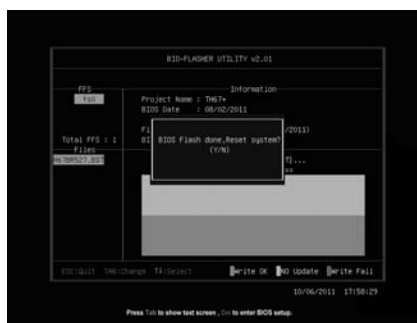
5. After entering the POST screen, the BIOS-FLASHER utility pops out. Choose [fs0] to search for the BIOS file.



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 <DEL> 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.

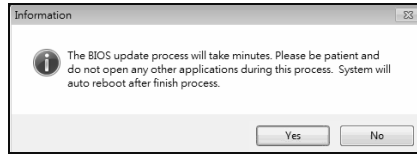
### **BIOS Update Utility (through the Internet)**

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

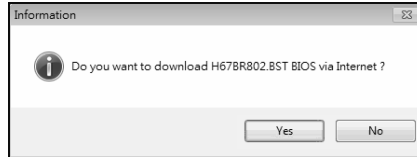
3. Launch BIOS Update Utility and click the **Online Update** button on the main screen.



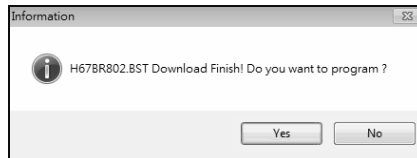
4. An open dialog will show up to request your agreement to start the BIOS update. Click **Yes** to start the online update procedure.



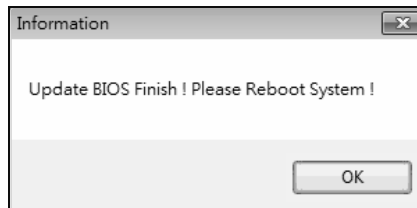
5. If there is a new BIOS version, the utility will ask you to download it. Click **Yes** to proceed.



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 <DEL> 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.

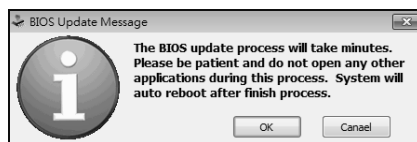
**BIOS Update Utility (through a BIOS file)**

1. Installing BIOS Update Utility from the DVD Driver.
2. Download the proper BIOS from <http://www.biostar.com.tw/>

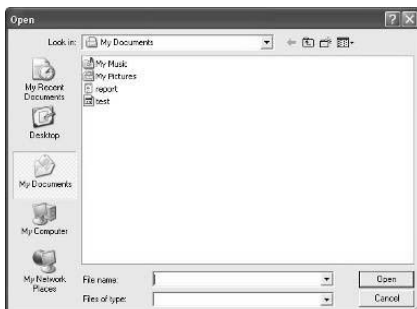
3. Launch BIOS Update Utility and click the **Update BIOS** button on the main screen.



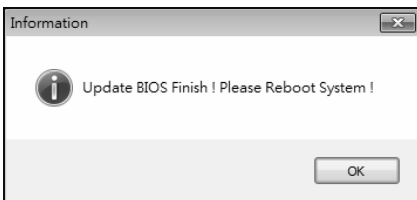
4. A warning message will show up to request your agreement to start the BIOS update. Click **OK** to start the update procedure.



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.



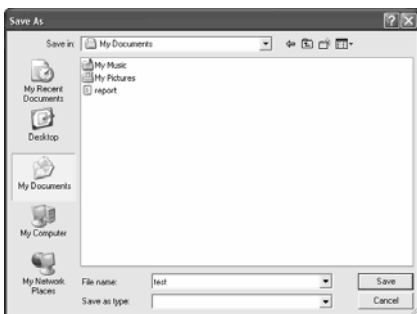
6. After the BIOS Update process is finished, click on **OK** to reboot the system.



7. While the system boots up and the full screen logo shows up, press <DEL> 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**.





## 3.3 Software

### Installing Software

1. Insert the Setup DVD to the optical drive. The driver installation program would appear if the Auto-run 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 is completed, you will see the software icon showing on the desktop. Double-click the icon to launch it.

**Note1:** All the information and content about following software are subject to be changed without notice. For better performance, the software is being continuously updated.

**Note2:** The information and pictures described below are for your reference only. The actual information and settings on board may be slightly different from this manual.

### BIOScreen Utility

This utility allows you to personalize your boot logo easily. You can choose BMP as your boot logo so as to customize your computer.



Please follow the step-by-step instructions below to update boot logo:

- Load Image : Choose the picture as the boot logo.
- Transform : Transform the picture for BIOS and preview the result.
- Update Bios : Write the picture to BIOS Memory to complete the update.

### eHot-Line

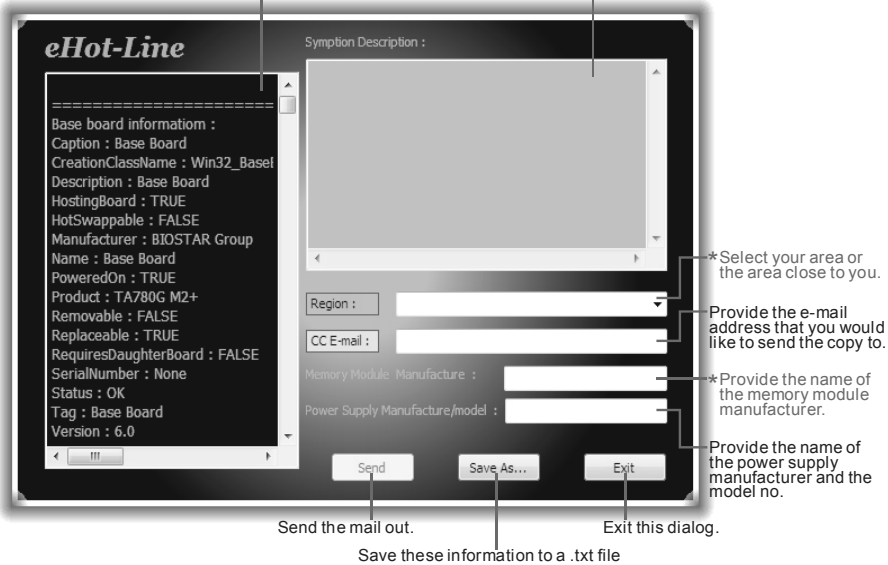
eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.

**Note:** 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.

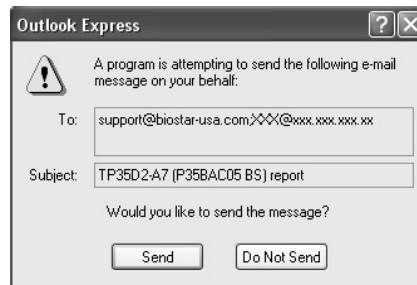
This block will show the information which would be collected in the mail.

\*Describe condition of your system.

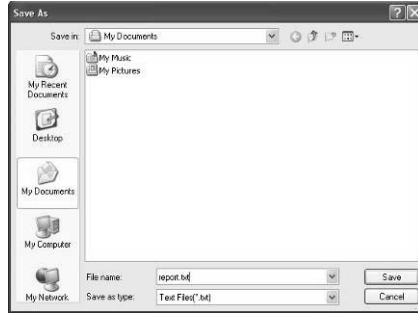


After filling up this information, click “Send” to send the mail out. A warning dialog would appear asking for your confirmation; click “Send” to confirm or “Do Not Send” to cancel.

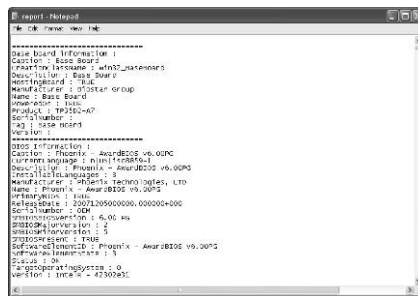
If you want to save this information to a .txt file, click “Save As...” and then you will see a saving dialog appears asking you to enter file name.



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.



**Note1:** 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.

**Note2:** 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 website <http://www.biostar.com.tw/app/en/about/contact.php> for getting our contact information.

### **Rapid Start Technology**

Intel® Rapid Start technology enables your system to get up and running faster from even the deepest sleep, saving time and power consumption. Feel secure knowing that your system will still resume to working conditions in the event of unexpected power loss while in sleep mode.

#### **System Requirement:**

- An Intel® SATA SSD (SATA Gen2 or Gen3. Preferably Gen3, and 80 GB or larger)
- Windows 7 and Windows 8

**Note1:** Please visit below webpage for more details about operating systems supporting [http://www.intel.com/p/en\\_US/support](http://www.intel.com/p/en_US/support)

**Note2:** The Rapid Start Technology is NOT supported by H81 chipset.

#### **Installing Intel® SBA:**

##### **Step 1: BIOS Setting**

**1-1** Go to [Advanced Menu] > [ACPI Settings], and set [ACPI Sleep State] to S3 (Suspend to RAM)

**1-2** Go to [Advanced Menu] > [SATA Configuration], and set [SATA Mode Selection] to AHCI

**1-3** Go to [Advanced Menu] and set [Intel(R) Rapid Start Technology] to Enabled

**1-4** Save your changes, and then exit the BIOS Setup.

##### **Step 2: Operating System Installation**

##### **Step 3: Installing Intel® Rapid Start Application**

**3-1** Insert the setup Driver DVD into your optical drive. Click “Intel Rapid Start Technology” to launch the program.


**3-2** Below window will pop-out, then click “Create Disk” to start disk partition. After disk partition finished, please click “OK” then system will reboot automatically.



**3-3** After rebooting, the system will setup Intel® Rapid Start Technology automatically. We recommend you restart the system after this installation is complete,



**Step 4: Configuring Intel® Rapid Start Application**

Launch the Intel® Rapid Start Technology Manager application from [Start] > [All Programs] > [Intel] or click the icon  in the notification area.



### **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.

#### **Software Monitor**

Software Monitor helps keep critical security software running by monitoring it at the hardware level and alerting the business if there has been an attack. The Software Monitor also maintains an event log that shows status information and any errors generated, so businesses can know what happened.

#### **Data Backup and Restore**

Data Backup and Restore provides reliable after-hours backup of critical data using the local maintenance timer to power on the computer. Data can be backed up to a designated location.

#### **USB Blocker**

The optional USB Blocker lets businesses control access to their infrastructure, preventing unauthorized USB devices or file imports or exports on company computers.

#### **PC Health Center**

PC Health Center can schedule and do PC maintenance tasks after hours, without interrupting employee work time. Tasks such as updating the operating system, deleting temporary internet files, and running disk defragmentation can be done at night. PC Health Center works even if the computer is powered-down, as long as it is plugged in.

#### **Energy Saver**

With the optional Energy Saver, businesses can save energy by scheduling PCs to power-down at the end of the day and turn on before the work day begins - ready for employees as they arrive in the morning.

#### **Supported Operating Systems:**

Windows 7 and Windows 8

**Note1:** Please visit below webpage for more details about operating systems supporting [http://www.intel.com/p/en\\_US/support](http://www.intel.com/p/en_US/support)

**Note2:** The Intel® Small Business Advantage is only supported by H87 & B85 chipsets.

## Installing Intel SBA

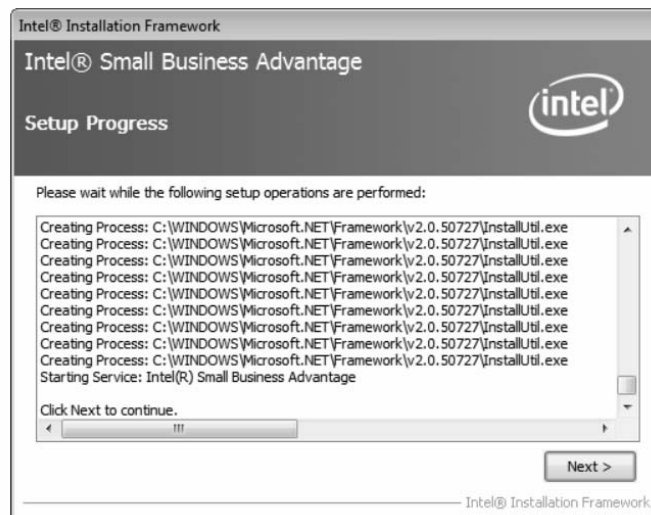
This procedure describes how to install Intel SBA.

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.



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.

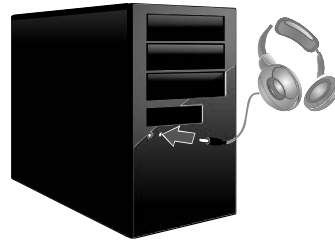


5. Click Next. The Setup Is Complete window opens.
6. Click Finish. The installer closes.

## Smart EAR

### Hi-Fi Audio Requirements:

1. A chassis with front audio output jacks
2. An earphone or a headphone
3. Windows 7 or Windows 8 operation system

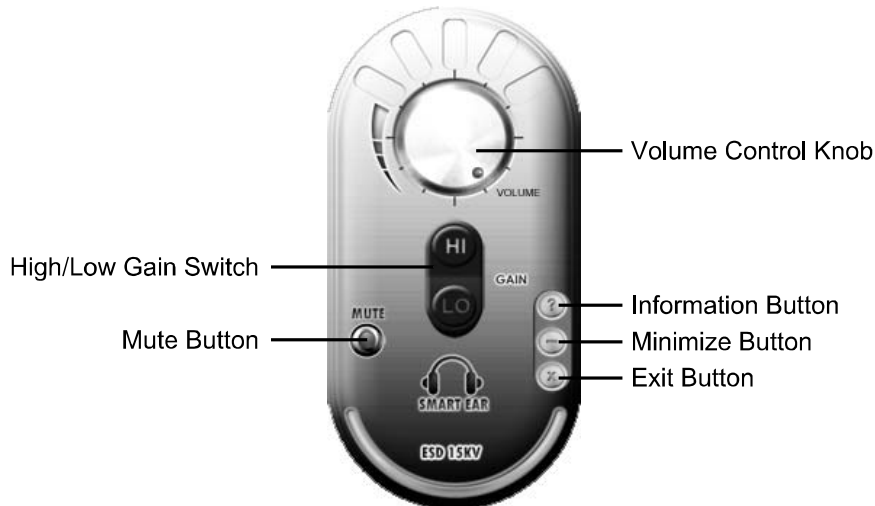


### Installation Guide:

1. Make sure the front audio cable of the chassis connected to the front audio header of the motherboard properly.
2. Install the Smart Ear 3D Utility from the driver DVD.
3. Connect the earphone or headphone to the front audio jack of the chassis.

**Note:** If you want to use an AC'97 front audio output cable, please disable the "Front Panel Jack Detection" setting. This setting can be found via O.S. Audio Utility.

### Smart EAR Utility:



- **High/Low Gain Switch:** Keep the gain switch to low for low impedance headphone and set to high for high impedance headphone.
- **Mute Button:** To disable system sound
- **Volume Control Knob:** The volume can be finely adjusted by turning the knob either clockwise or anti-clockwise to increase or decrease system volume accordingly.
- **Information Button:** Get information of the application
- **Minimize Button:** Minimize the application window to the taskbar
- **Exit Button:** Exit the application



## 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.

#### 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 manuals.

**Note1:** 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.

**Note2:** You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from <http://get.adobe.com/reader/>

## 4.2 AMI BIOS Beep Code

### Boot Block Beep Codes

Number of Beeps	Description
Continuing	Memory sizing error or Memory module not found

### POST BIOS Beep Codes

Number of Beeps	Description
1	Success booting.
8	Display memory error (system video adapter)

## 4.3 Troubleshooting

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

### **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.
2. Wait for seconds.
3. Power on the system again

## APPENDIX: SPEC IN OTHER LANGUAGES

### German

Spezifikationen		
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	Datentransferate bis zu 3.0Gb/s / 6.0Gb/s. Konform mit der SATA-Spezifikation Version 2.0 / 3.0
LAN	Realtek RTL 8111G	10 / 100 / 1000 Mb/s Auto-Negotiation Halb- / Vollduplex-Funktion
HD Audio-Unterstützung	ALC892	Unterstützt High-Definition Audio 7.1-Kanal-Audioausgabe, Biostar Hi-Fi
USB3.0	B75	Datenübertragungsraten bis zu 600 MB / s
Steckplätze	PCI-Steckplatz x1 PCI Express Gen3 x16 Steckplatz 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 System-Lüfter-Sockel x2 "CMOS löschen"-Sockel x1	Jeder Anschluss unterstützt 1 SATA3-Laufwerk Jeder Anschluss unterstützt 1 SATA2-Laufwerk Unterstützt die Fronttafelfunktionen Unterstützt die Fronttafel-Audioanschlussfunktion CPU-Lüfterstromversorgungsanschluss (mit Smart Fan-Funktion) System-Lüfter-Stromversorgungsanschluss

## Hi-Fi B75S3E

Spezifikationen			
	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
	Verbraucher-IR Anschluss	x1	
	Serieller Anschluss	x1	
	S/PDIF Ausgangsanschluss	x1	Unterstützt die digitale Audioausgabefunktion
	Stromanschluss (24-polig)	x1	
	Stromanschluss (4-polig)	x1	
Rückseiten-E/A	PS/2-Tastatur/ Maus	x1	
	HDMI-Anschluss	x1	
	VGA-Anschluss	x1	
	DVI-Anschluss	x1	
	LAN-Anschluss	x1	
	USB2.0-Anschluss	x2	
	USB3.0-Anschluss	x2	
	Audioanschluss	x3	
Platinengröße	200 mm (B) X 244 mm (L)		uATX
OS-Unterstützung	Windows XP / Vista / 7 / 8		Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

## French

SPEC		
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 8111G	10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability
Prise en charge audio HD	ALC892	Prise en charge de l'audio haute définition Sortie audio à 7.1 voies, Biostar Hi-Fi
USB3.0	B75	
Fentes	Fente PCI x1 Fente PCI Express Gen3 x16 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 Embase de ventilateur UC x1 Embase de ventilateur système x2 Embase d'effacement CMOS 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 Alimentation électrique du ventilateur UC (avec fonction de ventilateur intelligent) Alimentation électrique du ventilateur système

## Hi-Fi B75S3E

SPEC			
	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 connector prend en charge 1 Port d'imprimante
	Connecteur de IR du consommateur	x1	
	Port série	x1	
	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 HDMI	x1	
	Port VGA	x1	
	Port DVI	x1	
	Port LAN	x1	
	Port USB2.0	x2	
	Port USB3.0	x2	
	Fiche audio	x3	
Dimensions de la carte	200 mm (l) X 244 mm (H)		uATX
Support SE	Windows XP / Vista / 7 / 8		Bioslar 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 8111G	Negoziante automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex	
Supporto audio HD	ALC892	Supporto audio High-Definition (HD) Uscita audio 7.1 canali, Biostar Hi-Fi	
USB3.0	B75		
Alloggi	Alloggio PCI	x1	
	Alloggio PCI Express Gen3 x16	x1	
	Alloggio PCI Express Gen2 x1	x2	
Connettori su scheda	Connettore SATA3	x1	Ciascun connettore supporta 1 unità SATA3
	Connettore SATA2	x5	Ciascun connettore supporta 1 unità SATA2
	Connettore pannello frontale	x1	Supporta i servizi del pannello frontale
	Connettore audio frontale	x1	Supporta la funzione audio pannello frontale
	Collettore ventolina CPU	x1	Alimentazione ventolina CPU (con funzione Smart Fan)
	Collettore ventolina sistema	x2	Alimentazione ventolina di sistema
	Collettore cancellazione CMOS	x1	
	Connettore USB2.0	x2	Ciascun connettore supporta 2 porte USB2.0 pannello frontale



<b>SPECIFICA</b>			
	Connettore USB3.0	x1	Ciascun connettore supporta 2 porte USB3.0 pannello frontale
	Connettore Porta stampante	x1	Ciascun connettore supporta 1 Porta stampante
	Connettore IR del consumatore	x1	
	Porta seriale	x1	
	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 HDMI	x1	
	Porta VGA	x1	
	Porta DVI	x1	
	Porta LAN	x1	
	Porta USB2.0	x2	
	Porta USB3.0	x2	
	Connettore audio	x3	
Dimensioni scheda	200 mm (larghezza) x 244 mm (altezza)		uATX
Sistemi operativi supportati	Windows XP / Vista / 7 / 8		Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

## Spanish

<i>Especificación</i>		
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 8111G	Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex
Soporte de sonido HD	ALC892	Soporte de sonido de Alta Definición Salida de sonido de 7.1 canales, Biostar Hi-Fi
USB3.0	B75	Tasas de transferencia de datos hasta 600 MB / s
Ranuras	Ranura PCI X1 Ranura PCI Express Gen3 x16 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 X2 Cabecera de borrado de CMOS 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

## Hi-Fi B75S3E

<i>Especificación</i>			
	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 IR del consumidor	X1	
	Puerto serie	X1	
	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 HDMI	x1	
	Puerto VGA	X1	
	Puerto DVI	X1	
	Puerto de red local	X1	
	Puerto USB2.0	X2	
	Puerto USB3.0	X2	
	Conector de sonido	X3	
Tamaño de la placa	200 mm. (A) X 244 Mm. (H)		uATX
Soporte de sistema operativo	Windows XP / Vista / 7 / 8		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 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 8111G	Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex
Suporte para áudio de alta definição	ALC892	Suporta a especificação High-Definition Audio Saída de áudio de 7.1 canais, Biostar Hi-Fi
USB3.0	B75	Taxas de transferência de dados até 600 MB / s
Ranuras	Ranura PCI x1 Ranura PCI Express Gen3 x16 x1 Ranura 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 Conector da ventoinha do sistema x2 Conector para limpeza do CMOS x1 Conector USB2.0 x2 Conector USB3.0 x1 Conector da para impressora x1 Conector de IR do consumidor 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) Alimentação da ventoinha do sistema Cada conector suporta 2 portas USB2.0 no painel frontal Cada conector suporta 2 portas USB3.0 no painel frontal Cada conector suporta 1 Porta para impressora

<b>ESPECIFICAÇÕES</b>			
	Porta série	x1	Suporta a saída de áudio digital
	Conector de saída S/PDIF	x1	
	Conector de alimentação (24 pinos)	x1	
	Conector de alimentação (4 pinos)	x1	
Entradas/Saídas no painel traseiro	Teclado/ Mouse PS/2	x1	
	Porta HDMI	x1	
	Porta VGA	x1	
	Porta DVI	x1	
	Porta LAN	x1	
	Porta USB2.0	x2	
	Porta USB3.0	x2	
Tomada de áudio	x3		
Tamanho da placa	200 mm (L) X 244 mm (A)	uATX	
Sistemas operativos suportados	Windows XP / Vista / 7 / 8		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 8111G	10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego duplexu
Obsługa audio HD	ALC892	Obsługa High-Definition Audio 7.1 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 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 x2 Złącze główkowe kasowania CMOS x1 Złącze USB2.0 x2	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 Każde złącze obsługuje 2 porty USB2.0 na panelu przednim

## Hi-Fi B75S3E

SPEC			
	Złącze USB3.0	x1	Każde złącze obsługuje 2 porty USB3.0 na panelu przednim  Każde złącze obsługuje 1 Port drukarki    Obsługa funkcji cyfrowego wyjścia audio
	Złącze Port drukarki	x1	
	Złącze Konsument IR	x1	
	Port szeregowy	x1	
	Złącze wyjścia S/PDIF	x1	
	Złącze zasilania (24 pinowe)	x1	
	Złącze zasilania (4 pinowe)	x1	
Back Panel I/O	Klawiatura/ Myszka PS/2	x1	
	Port HDMI	x1	
	Port VGA	x1	
	Port DVI	x1	
	Port LAN	x1	
	Port USB2.0	x2	
	Port USB3.0	x2	
	Gniazdo audio	x3	
Wymiary płyty	200 mm (S) X 244 mm (W)		uATX
Obsługa systemu operacyjnego	Windows XP / Vista / 7 / 8		Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

## Russian

СПЕЦ		
CPU (центральны й 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 8111G	Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность
Звуковая поддержка жесткого диска	ALC892	Звуковая поддержка High-Definition 7.1канальный звуковой выход, Biostar Hi-Fi
USB3.0	B75	скорости передачи данных до 600 МБ / с
Слоты	Слот PCI x1 Слот PCI Express Gen3 x16 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 Контактирующее приспособление вентилятора центрального процессора x1	Каждый разъём поддерживает 1 устройство SATA3 Каждый разъём поддерживает 1 устройство SATA2 Поддержка устройств на лицевой панели Поддержка звуковых функций на лицевой панели Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора)



## Hi-Fi B75S3E

СПЕЦ				
	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 едока ИКЪИЙ	x1		
	Последовательный порт	x1		
	Разъём вывода для S/PDIF	x1		Поддержка вывода цифровой звуковой функции
	Разъем питания (24 вывод)	x1		
	Разъем питания (4 вывод)	x1		
Задняя панель средств ввода-вывода	клавиатура/ мышь PS/2	x1		
	Порт HDMI	x1		
	Порт VGA	x1		
	Порт DVI	x1		
	Порт LAN	x1		
	USB2.0-порт	x4		
	USB3.0-порт	x2		
	Гнездо для подключения наушников	x3		
Размер панели	200 мм (Ш) X 244 мм (В)		uATX	
Поддержка OS	Windows XP / Vista / 7 / 8		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.	

## Arabic

المواصفات		
Socket 1155 وحدة المعالجة المركزية يتردد Intel Core i7 / i5 / i3 / Pentium / Celeron المعالجات (TDP: 95W) يصل إلى	Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading	تدعم تقنيات
B75 مجموعة الشرائح		
مزدوجة القناة DDR3 وحدة ذاكرة سعت 1333 / 1066 ميجا بايت DDR3 تدعم الذاكرة من نوع الذاكرة الرئيسية وحدة على يعتمد 1600 سعت DDR3 نوع من الذاكرة تدعم بايت ميجا (المركزية المعالجة ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة	قناة DDR3 DIMM سعة ذاكرة قصوى 16 جيجا بايت ميجا بايت و 1/2 / 1/4 سعة DDR3 تدعم ذاكرة من نوع DIMM تدعم كل قناة و 2/4 و 8 جيجا بايت	عدد 2
IT8728F-EX Super I/O الأكثر استخداماً. Super I/O توفر وظيفة Low Pin Count Interface تدعم تقنية	وسائل التحكم في البيئة: مراقب لمعرفة حلة الأجهزة مراقب في سرعة المروحة ITE من "Smart Guardian" وظيفة	
SATA 2 & 3 متكامل Serial ATA متحكم	ثلاثية/جيجابت 6.0 / ثنائية/جيجابت 3.0 إلى تصل بسرعات البيئات نقل 2.0 / 3.0 الإصدار SATA مطابقة لمواصفات	
شبكة داخلية Realtek RTL 8111G	تفاوض تلقائي 100/10 ميجا بايت / ثنائية و 1 جيجا بايت ثنائية إمكانية النقل المزدوج الكامل/الضفي	
دعم الصوت عالي التعريف ALC892	تدعم تقنية الصوت عالي التعريف من Biostar Hi-Fi , قنوات لخرج الصوت 7.1	
USB3.0 B75	ثنائية / بايت ميغا 600 إلى تصل بيئات نقل معدلات	
قناة PCI قناة PCI Express x16 Gen3 قناة PCI Express Gen2 x 1	عدد 1 عدد 1 عدد 2	الفتحات
المنفذ على سطح اللوحة منفذ SATA3 منفذ SATA2 منفذ اللوحة الأمامية منفذ الصوت الأمامي وصلة مروحة وحدة المعالجة المركزية وصلة مروحة النظم وصلة مسح CMOS منفذ USB2.0	يدعم كل منفذ واحد من أجهزة SATA3 يدعم كل منفذ واحد من أجهزة SATA2 يدعم تجهيزات اللوحة الأمامية يدعم وظيفة الصوت باللوحة الأمامية لتوصيل الطاقة لمروحة وحدة المعالجة مع وظيفة Smart Fan لتوصيل الطاقة لمروحة النظم عدد 1 عدد 5 عدد 1 عدد 1 عدد 1 عدد 2 عدد 1 عدد 2	عدد 1 عدد 5 عدد 1 عدد 1 عدد 1 عدد 2 عدد 1 عدد 2

## Hi-Fi B75S3E

المواصفات		
يدعم كل منفذ قحتي USB3.0 باللوحة الأمومية	عدد 1	منفذ USB3.0
	عدد 1	منفذ طابعة
	عدد 1	منفذ مستهلكة تحت الأحمر
	عدد 1	منفذ تسلسلي
يدعم وظيفة خرج الصوت الرقمي	عدد 1	منفذ خرج S/PDIF
	عدد 1	منفذ توصيل الطاقة (24دبوس)
	عدد 1	منفذ توصيل الطاقة (8دبليس)
	عدد 1	لوحة المفاتيح للكمبيوتر/الغارة PS/2
	عدد 1	منفذ HDMI
	عدد 1	منفذ VGA
	عدد 1	منفذ DVI
	عدد 1	منفذ شبكة اتصال محلية
	عدد 2	منفذ USB2.0
	عدد 2	منفذ USB3.0
	عدد 3	مقيس صوت
uATX		حجم اللوحة 244 مم (عرض) X 200 مم (الارتفاع)
بحقها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو بدون Biostar احتفظ بإخطار.	Windows XP / Vista / 7 / 8	دعم أنظمة التشغيل

## 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 x2 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 もともと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、 HW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 8111G	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	ALC892	ハイデフィニションオーディオのサポート 7.1 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 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 x2 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

## Hi-Fi B75S3E

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
	消費者IRコネクタ	x1	
	シリアルポート	x1	
	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 I/O	PS/2 キーボード/マウス	x1	
	HDMIポート	x1	
	VGAポート	x1	
	DVIポート	x1	
	LANポート	x1	
	USB2.0ポート	x2	
	USB3.0ポート	x2	
	オーディオジャック	x3	
ボードサイズ	200 mm (幅) X 244 mm (高さ)		uATX
OSサポート	Windows XP / Vista / 7 / 8		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。

2013/05/08