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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  
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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  
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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
- ☒ Installation Guide x1
- ☒ Fully Setup Driver DVD x1

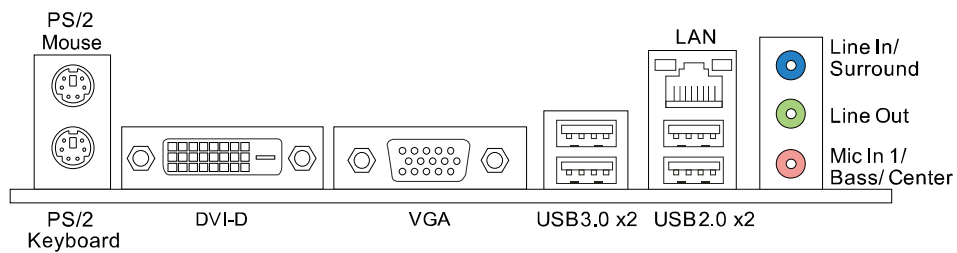
<p><b>Note:</b> The package contents may be different due to the sales region or models in which it was sold. For more information about the standard package in your region, please contact your dealer or sales representative.</p>
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### 1.3 Motherboard Specifications

Specifications									
CPU Support	Socket 1150 for Intel® Core i7 / i5 / i3 / Pentium / Celeron processor Maximum CPU TDP (Thermal Design Power): 95Watt * Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for CPU support list.								
Chipset	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)								
Memory	Supports Dual Channel DDR3 1066/ 1333/ 1600 2 x DDR3 DIMM Memory Slot, Max. Supports up to 16 GB Memory Each DIMM supports non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3 module * Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for Memory support list.								
Storage	INTEL® B85, Supports AHCI 4x SATA 6Gb/s Connector INTEL® H81, Supports AHCI 2x SATA 6Gb/s Connector 2x SATA 3Gb/s Connector								
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability								
Audio Codec	ALC892, 7.1 Channels, High Definition Audio, Biostar Hi-Fi (2-channel output is from front audio header)								
USB	INTEL® B85 4x USB 3.0 port (2 on rear I/Os and 2 via internal headers) 6x USB 2.0 port (2 on rear I/Os and 4 via internal headers) INTEL® H81 2x USB 3.0 port (2 on rear I/Os) 6x USB 2.0 port (2 on rear I/Os and 4 via internal headers)								
Expansion Slots	2x PCIe 2.0 x1 Slot 1x PCIe 3.0 x16 Slot (x16), Hi-Fi B85S1 1x PCIe 2.0 x16 Slot (x16), Hi-Fi H81S1								
Rear I/Os	1x PS/2 Mouse 1x PS/2 Keyboard 1x VGA Port 1x DVI Port 1x LAN port 2x USB 2.0 Port 2x USB 3.0 Port 3x Audio Jack								
Internal I/Os	<table border="0"> <tr> <td>Hi-Fi B85S1</td><td>Hi-Fi H81S1</td></tr> <tr> <td>4x SATA 6.0Gb/s Connector</td><td>2x SATA 6.0Gb/s Connector</td></tr> <tr> <td>2x USB 2.0 Header (each header supports 2 USB 2.0 ports)</td><td>2x SATA 3.0Gb/s Connector</td></tr> <tr> <td>1x USB 3.0 Header (each header</td><td>2x USB 2.0 Header (each header supports 2 USB 2.0 ports)</td></tr> </table>	Hi-Fi B85S1	Hi-Fi H81S1	4x SATA 6.0Gb/s Connector	2x SATA 6.0Gb/s Connector	2x USB 2.0 Header (each header supports 2 USB 2.0 ports)	2x SATA 3.0Gb/s Connector	1x USB 3.0 Header (each header	2x USB 2.0 Header (each header supports 2 USB 2.0 ports)
Hi-Fi B85S1	Hi-Fi H81S1								
4x SATA 6.0Gb/s Connector	2x SATA 6.0Gb/s Connector								
2x USB 2.0 Header (each header supports 2 USB 2.0 ports)	2x SATA 3.0Gb/s Connector								
1x USB 3.0 Header (each header	2x USB 2.0 Header (each header supports 2 USB 2.0 ports)								

Specifications		
	supports 2 USB 3.0 ports) 1x 4-Pin Power Connector 1x 24-Pin Power Connector 1x CPU Fan Connector 1x System Fan Connector 1x Front Panel Header 1x Front Audio Header 1x Clear CMOS Header 1x Serial Port Header 1x S/PDIF out Connector 1x Printer Port Header	1x 4-Pin Power Connector 1x 24-Pin Power Connector 1x CPU Fan Connector 1x System Fan Connector 1x Front Panel Header 1x Front Audio Header 1x Clear CMOS Header 1x Serial Port Header 1x S/PDIF out Connector 1x Printer Port Header
Form Factor	microATX Form Factor, 226 mm x 174 mm	
OS Support	Windows 7/ 8/ 8.1 Biostar reserves the right to add or remove support for any OS with or without notice.	

## 1.4 Rear Panel Connectors



**Note1:** DVI-D & VGA ports only work with an Intel® integrated Graphics Processor.

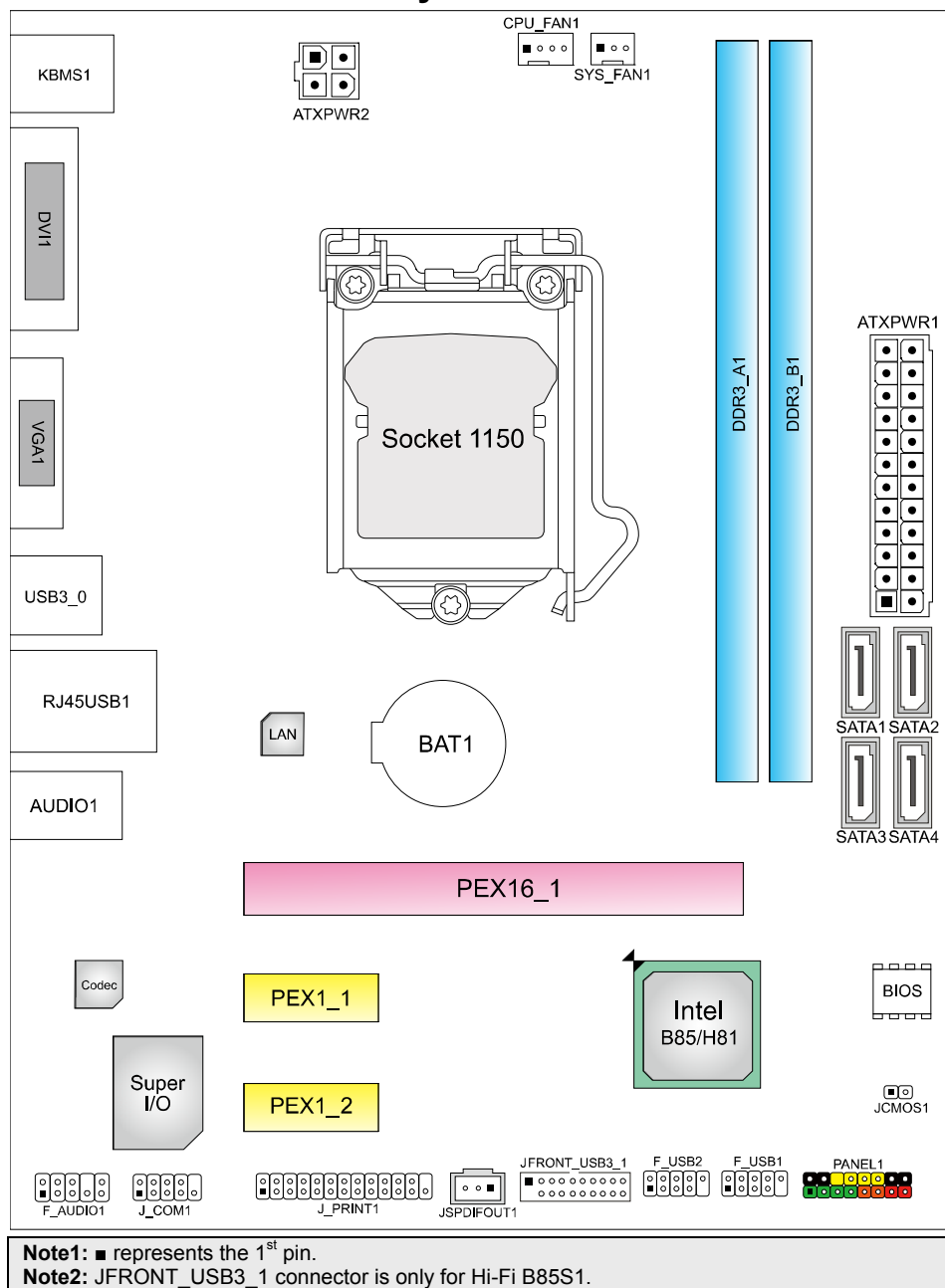
**Note2:** Maximum resolution:  
DVI: 1920 x 1200 @60Hz  
VGA: 1920 x 1200 @60Hz

**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.

### 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

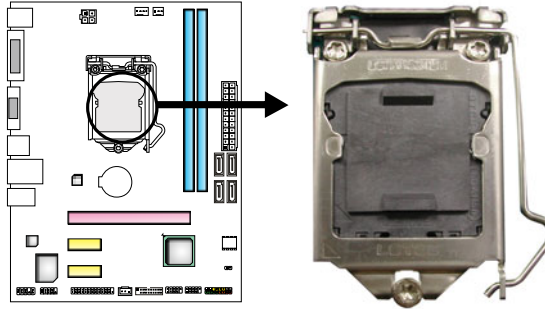
## 1.5 Motherboard Layout



## CHAPTER 2: HARDWARE INSTALLATION

### 2.1 Install Central Processing Unit (CPU)

**Step 1:** Locate the CPU socket on the motherboard

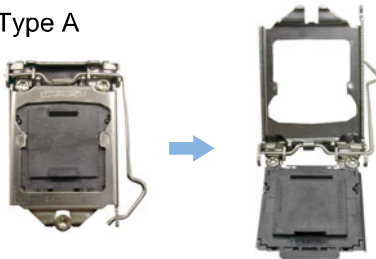


**Note1:** Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.

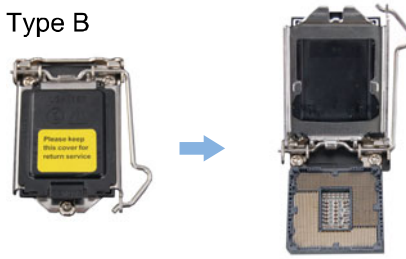
**Note2:** The motherboard might equip with two different types of pin cap. Please refer below instruction to remove the pin cap.

**Step 2:** Pull the socket locking lever out from the socket and then raise the lever up.

Type A

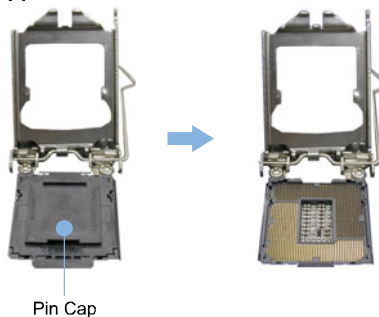


Type B

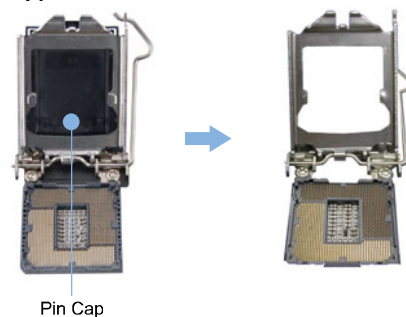


**Step 3:** Remove the Pin Cap.

Type A



Type B



## Motherboard Manual

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**Step 4:** 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 LGA1155 CPU is not compatible with LGA 1150 socket. Do not install a LGA 1155 CPU on the LGA 1150 socket.

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

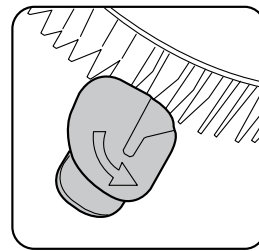
**Step 5:** Hold the CPU down firmly, and then lower the lever to locked position to complete the installation.





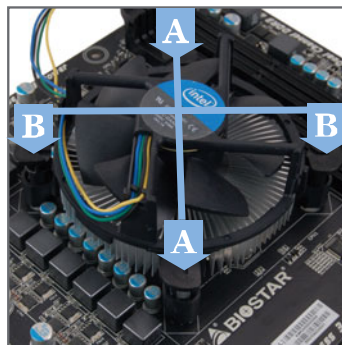
## 2.2 Install a Heatsink

**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. Ensure the fastener slots are pointing perpendicular to the heatsink.



Correct Orientation

**Step 2:** Press down two fasteners at one time in a diagonal sequence to secure the CPU fan assembly in place. As each fastener locks into position a click should be heard.



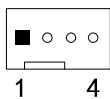
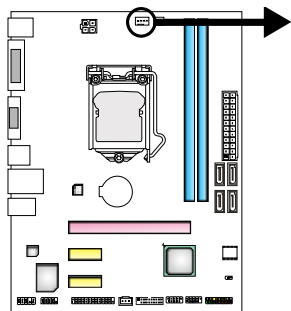
**Note1:** Do not forget to connect the CPU fan connector.

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

### 2.3 Connect Cooling Fans

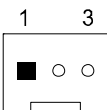
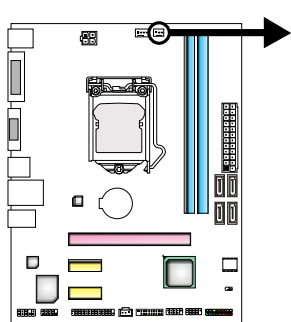
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer.

#### CPU\_FAN1: CPU Fan Header



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

#### SYS\_FAN1: System Fan Header

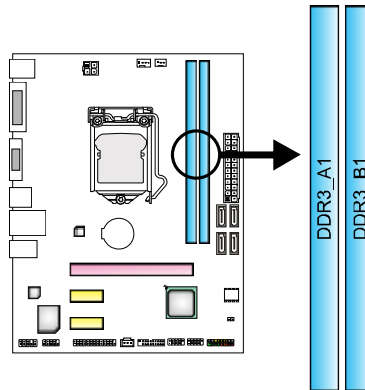


Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

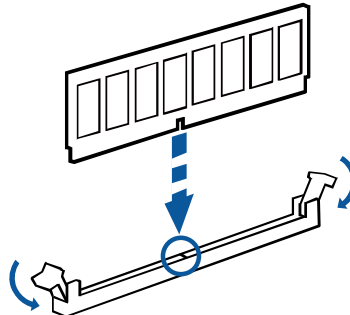
**Note:** CPU\_FAN1, SYS\_FAN1 support 4-pin and 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to pin#1(GND).

## 2.4 Install System Memory

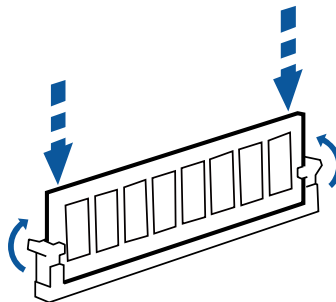
### DDR3 Modules



**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 clips 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:** When installing more than one memory module, we recommend to use the same brand and capacity memory on this motherboard.

## 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 (Hi-Fi B85S1)**

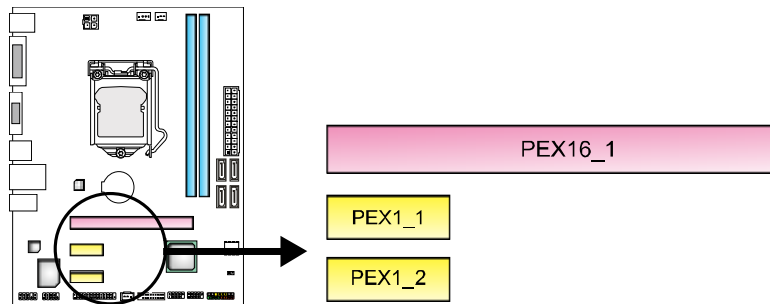
- PCI-Express 3.0 compliant.
- Maximum theoretical realized bandwidth of 16GB/s simultaneously per direction, for an aggregate of 32GB/s totally.

**PEX16\_1: PCI-Express Gen2 x16 Slot (Hi-Fi H81S1)**

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s simultaneously per direction, for an aggregate of 16GB/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



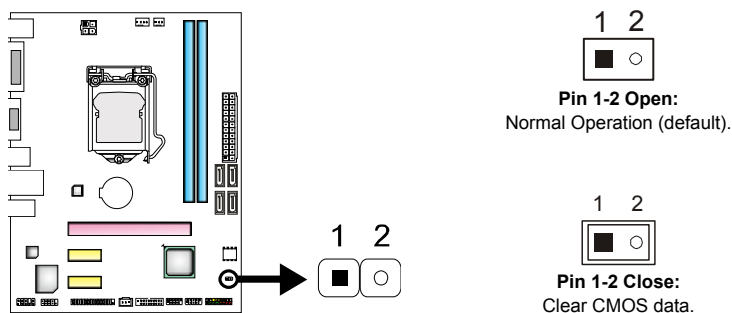
## 2.6 Jumper Setting

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

The jumper allows users to restore the BIOS safe setting and the CMOS data. Please carefully follow the procedures to avoid damaging the motherboard.



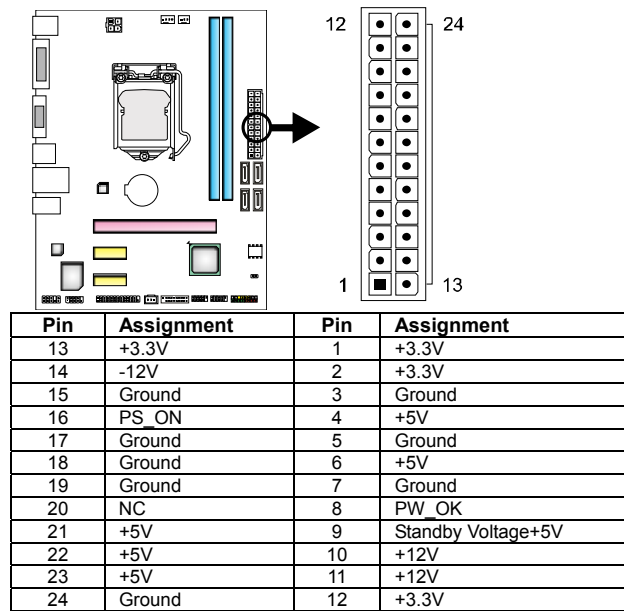
#### ※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to “Pin 1-2 close”, you can use a metal object like a screwdriver to touch the two pins.
3. Wait for five seconds.
4. After clearing the CMOS values, be sure the jumper is “Pin 1-2 open”.
5. Power on the AC.
6. Load Optimal Defaults and save settings in CMOS.

## 2.7 Headers & Connectors

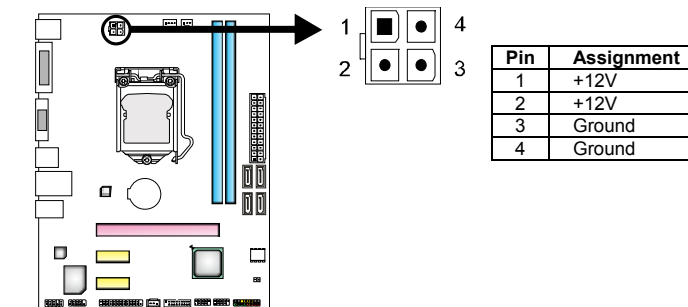
### ATXPWR1: ATX Power Source Connector

For better compatibility, we recommend to use a standard ATX 24-pin power supply for this connector. Make sure to find the correct orientation before plugging the connector.



### ATXPWR2: ATX Power Source Connector

The connector provides +12V to the CPU power circuit.

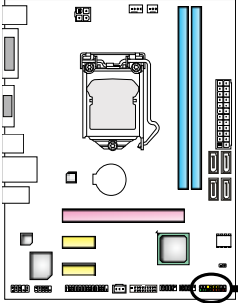


**Note1:** Before you power on the system, please make sure that both ATXPWR1 and ATXPWR2 connectors have been plugged-in.

**Note2:** Insufficient power supplied to the system may result in instability or the peripherals not functioning properly. Use of a PSU with a higher power output is recommended when configuring a system with more power-consuming devices.

PANEL1: Front Panel Header

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



Power LED On/Off

9 16  
1 8

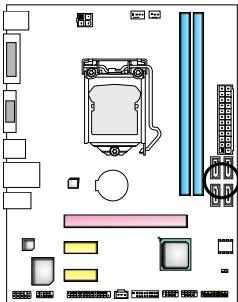
Speaker HDD LED Reset

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

SATA1~SATA4: Serial ATA Connectors

These connectors connect to SATA hard disk drives via SATA cables.

- **Hi-Fi B85S1**  
SATA1/2/3/4: SATA 6Gb/s Connector
- **Hi-Fi H81S1**  
SATA1/2: SATA 6Gb/s Connector  
SATA3/4: SATA 3Gb/s Connector



SATA1 SATA2

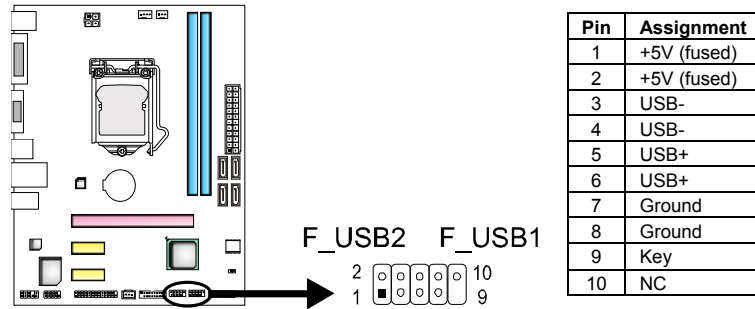
SATA3 SATA4

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



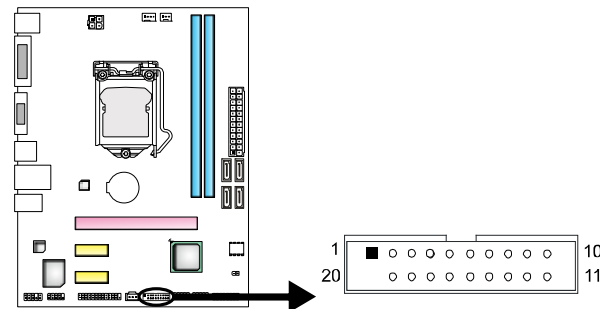
### F\_USB1/2: Header for USB 2.0 Ports at Front Panel

This header allows user to add additional USB ports on the PC front panel, and also can be connected with a wide range of external peripherals.



### JFRONT\_USB3\_1: Header for USB 3.0 Ports at Front Panel

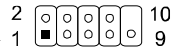
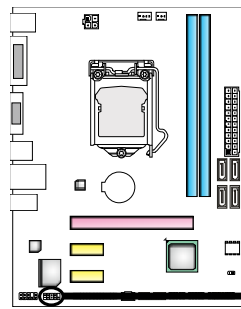
This header allows user to add additional USB ports on the PC front panel, and also can be connected with a wide range of external peripherals.



**Note:** JFRONT\_USB3\_1 is only for Hi-Fi B85S1.

### J\_COM: Serial Port Header

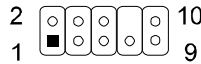
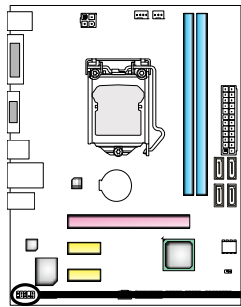
The motherboard has a serial port header for connecting RS-232 Port.



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	Key

### F\_AUDIO1: Front Panel Audio Header

This header allows user to connect the chassis-mount front panel audio I/O which supports HD and AC'97 audio standards.



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/out	5	RT Line Out
6	Jack Sense	6	RT Line Out
7	Front Sense	7	Reserved
8	Key	8	Key
9	Left line in/out	9	LFT Line Out
10	Jack Sense	10	LFT Line Out

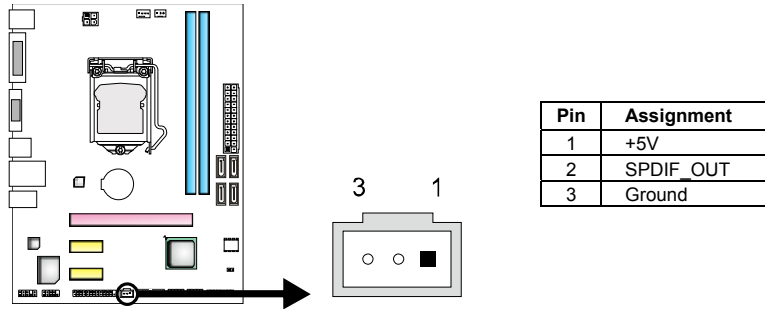
**Note1:** It is recommended that you connect a high-definition front panel audio module to this connector to avail of the motherboard's high definition audio capability.

**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.

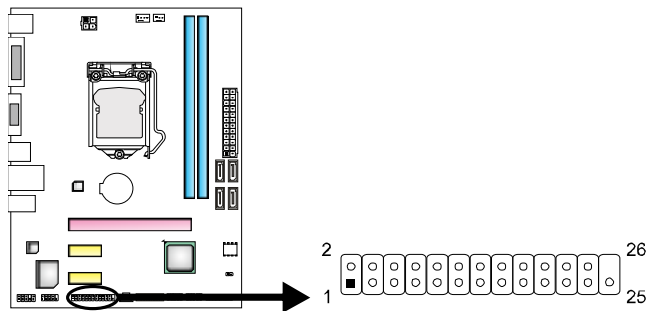
### JSPDIFOUT1: Digital Audio-out Connector

The connector is for connecting the S/PDIF output bracket.



### J\_PRINT1: Printer Port Header

This header allows user to connect a printer to 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

## 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:

- BIOSSTAR 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.
- BIOSSTAR 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.

#### **BIOSSTAR BIOS Flasher**

BIOSSTAR 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 BIOSSTAR 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.

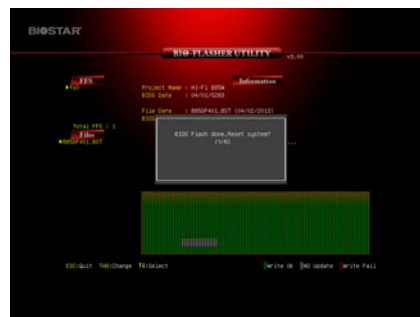


## Hi-Fi B85S1 & Hi-Fi H81S1

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.

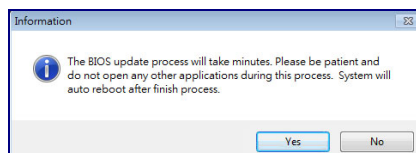
### **BIOS Update Utility (through the Internet)**

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

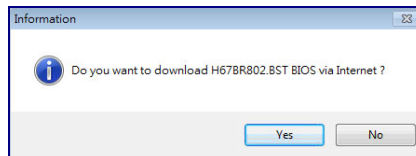
3. Launch BIOS Update Utility and click the **Online Update** button on the main screen.



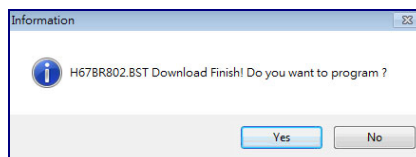
4. An open dialog will show up to request your agreement to start the BIOS update. Click **Yes** to start the online update procedure.



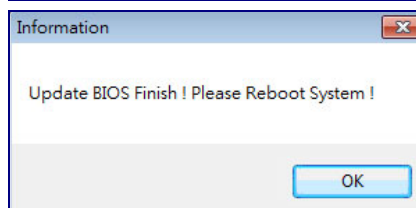
5. If there is a new BIOS version, the utility will ask you to download it. Click **Yes** to proceed.



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.

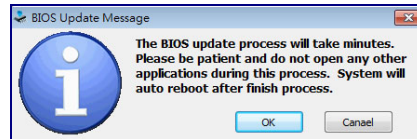
### **BIOS Update Utility (through a BIOS file)**

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

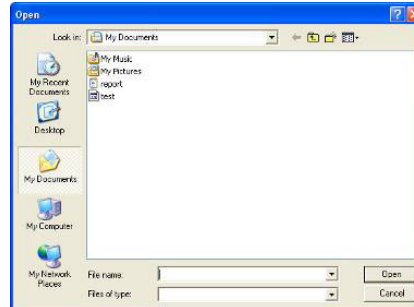
3. Launch BIOS Update Utility and click the **Update BIOS** button on the main screen.



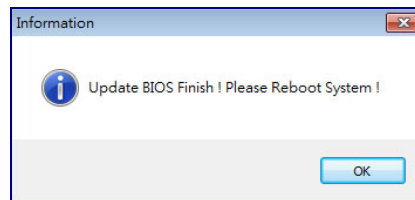
4. A warning message will show up to request your agreement to start the BIOS update. Click **OK** to start the update procedure.



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.



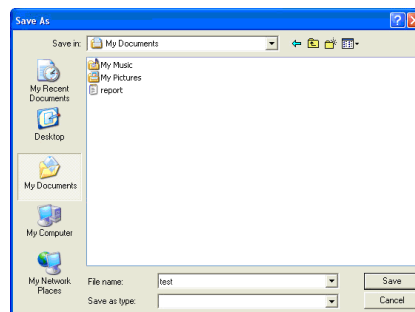
6. After the BIOS Update process is finished, click on **OK** to reboot the system.



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

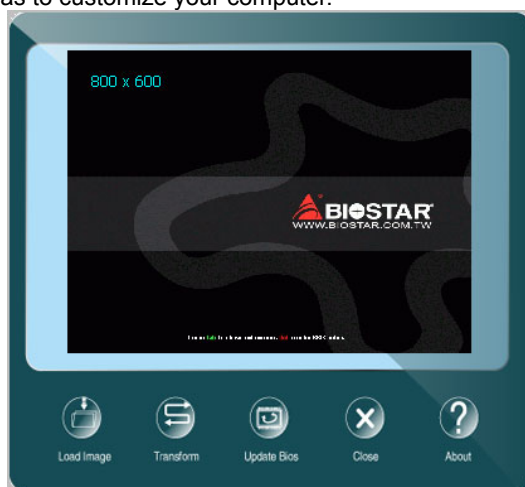
After the installation process is completed, you will see the software icon showing on the desktop. Double-click the icon to launch it.

**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.

The screenshot shows the eHot-Line utility window. It has a title bar 'eHot-Line'. On the left, there is a text area showing 'Base board information' with details like Caption, CreationClassName, Description, HostingBoard, HotSwappable, Manufacturer, Name, PoweredOn, Product, Removable, Replaceable, RequiresDaughterBoard, SerialNumber, Status, Tag, and Version. On the right, there is a 'Symptom Description' text area. Below these are input fields for 'Region', 'CC E-mail', 'Memory Module Manufacture', and 'Power Supply Manufacture/model'. At the bottom are three buttons: 'Send', 'Save As...', and 'Exit'. Red arrows point to various parts of the window with annotations: one points to the base board information text area, another to the symptom description text area, a third to the 'Send' button, a fourth to the 'Save As...' button, a fifth to the 'Exit' button, a sixth to the 'Region' dropdown, a seventh to the 'CC E-mail' field, an eighth to the 'Memory Module Manufacture' field, and a ninth to the 'Power Supply Manufacture/model' field.

Send the mail out.

Save these information to a .txt file

Exit this dialog.

Select your area or the area close to you.

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

Provide the name of the memory module manufacturer.

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

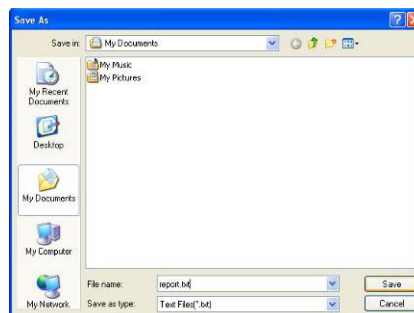
After filling up this information, click “Send” to send the mail out. A warning dialog would appear asking for your confirmation; click “Send” to confirm or “Do Not Send” to cancel.

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.

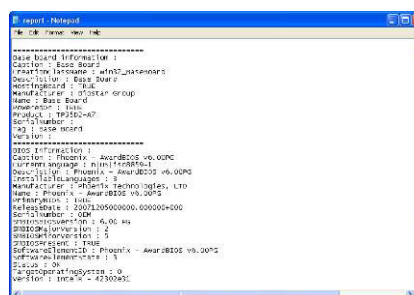
The screenshot shows an Outlook Express warning dialog box. It has a title bar 'Outlook Express'. Inside, there is a yellow warning icon and a message: 'A program is attempting to send the following e-mail message on your behalf:'. Below this, there are two fields: 'To:' with the value 'support@biostar-usa.com' and 'Subject:' with the value 'TP35D2-A7 (P35BAC05 BS) report'. At the bottom, there is a question 'Would you like to send the message?' and two buttons: 'Send' and 'Do Not Send'.

## Motherboard Manual

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.

## Smart Connect Technology

Intel® Smart Connect Technology is designed to update programs by periodically waking your computer from sleep/standby mode for a short time. This function works with applications that automatically get their data from the Internet.

### System Requirement:

- Intel Smart Connect Technology enabled in BIOS Setup
- Set the “ACPI Sleep State” to S3 in BIOS Setup.
- Windows 7, Windows 8 and Windows 8.1
- Normal internet connection

### Configuring Intel Smart Connect Technology

**Step 1:** After installing the operating system and motherboard drivers, install the Intel Smart Connect Technology application. Restart your computer when completed.

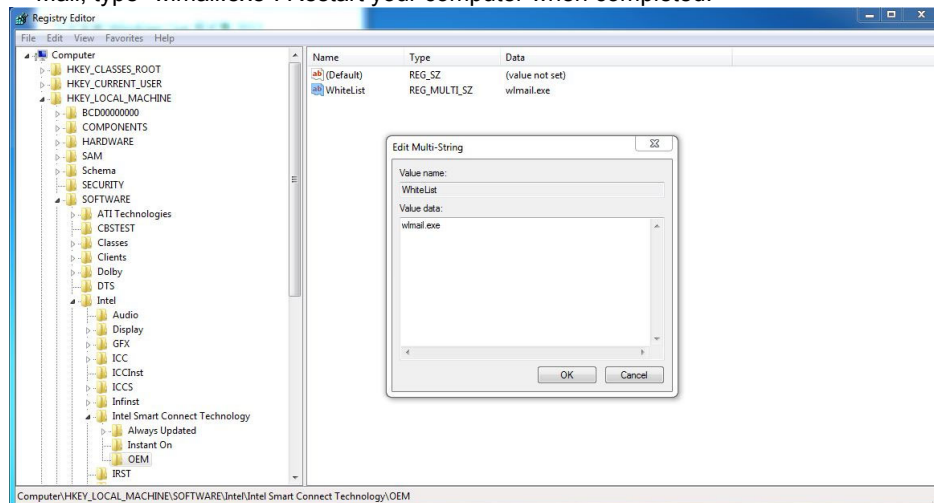
**Step 2:** Click on start menu and input "regedit" in the search bar. Press enter to open the registry editor. Look for the following directory in the registry editor:

*Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Intel\Intel Smart Connect Technology*

Right-click on *Intel Smart Connect Technology* and select *New > Key*. Type “OEM”.

**Note:** Intel Smart Connect Technology is for S3 mode only. During the updating process, the monitor will not light up and no sound will be output from the speaker.

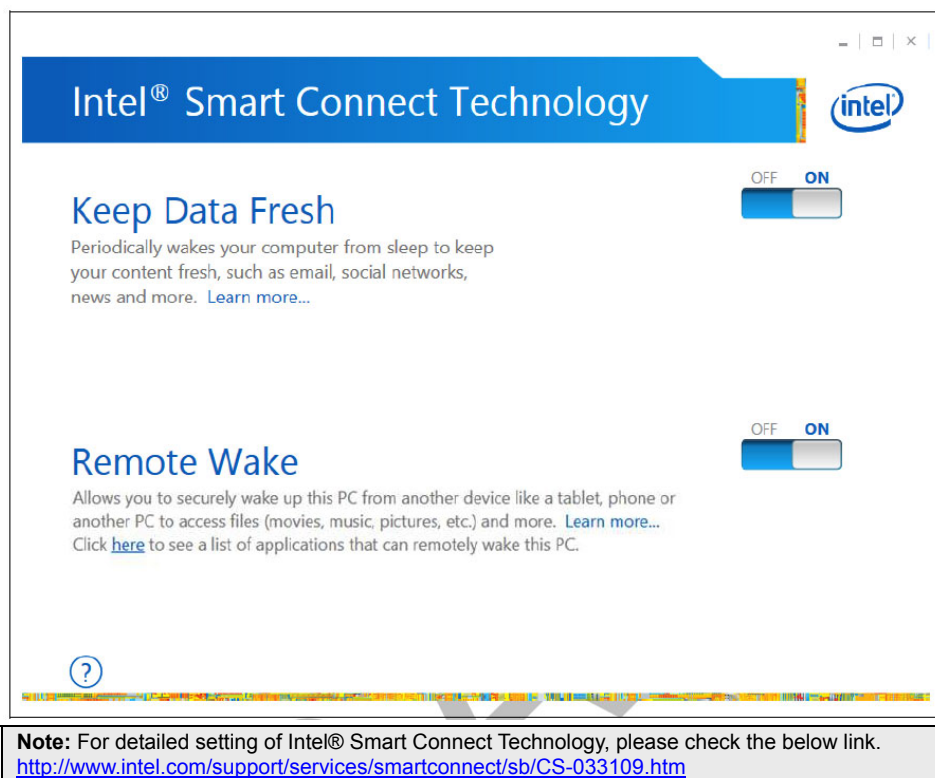
**Step 3:** As shown in the screenshot below, right-click on OEM, select *New > Multi-String Value*, and type “WhiteList”. Double-click WhiteList and type the application name to be added in Edit Multi-String. For example, to add Microsoft Live Mail, type “wlmail.exe”. Restart your computer when completed.



**Step 4:** After completing the steps above, go to *Start\All Programs\Intel* and launch Intel(R) Smart Connect Technology.

### Configuration Utility

The Intel Smart Connect Technology Configuration Utility allows configuration of the sleep duration, extended hours sleep duration, and viewing of the Event History along with other settings. To launch the application, select the application “Intel® Smart Connect Technology in the Start menu (Windows\* 7) or Start screen (Windows\* 8/8.1) to launch the configuration GUI. Once launched, the following is presented:



## **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)

### **Installing Intel® RST:**

#### **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

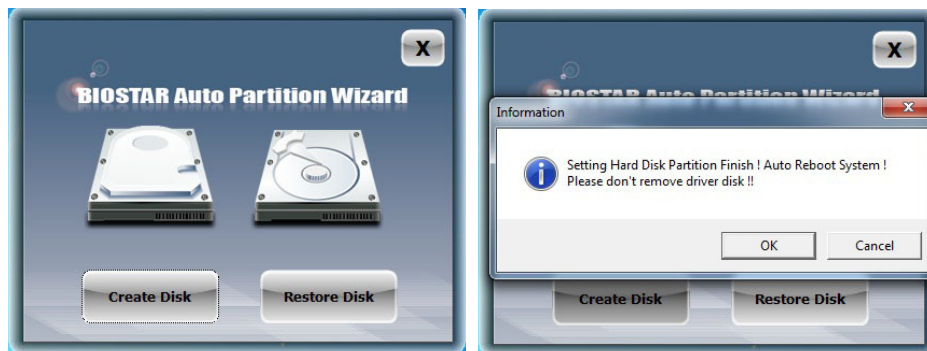
**1-4** Save your changes, and then exit the BIOS Setup.

#### **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.




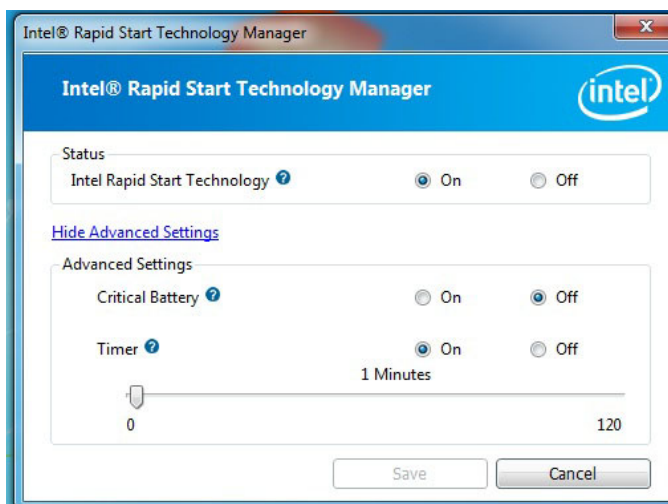
## Motherboard Manual

**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)

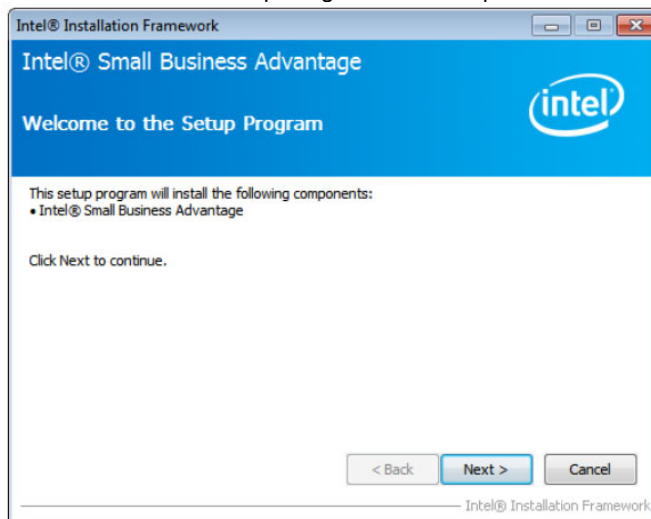
**Note2:** This function is only supported by B85 chipset.

### Installing Intel SBA

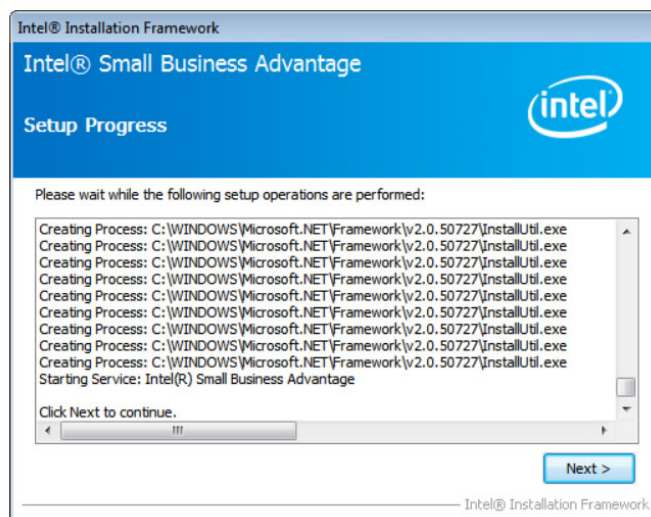
This procedure describes how to install Intel SBA.

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:**

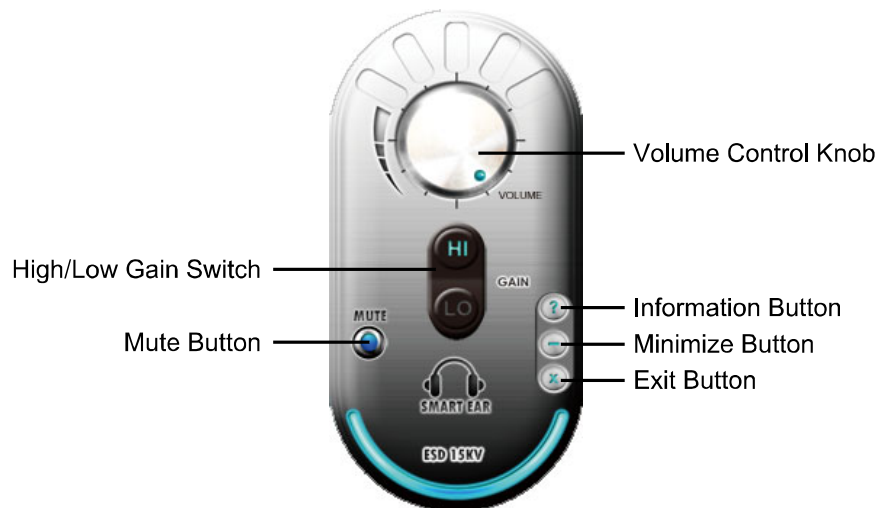
1. An earphone or a headphone
2. Windows 7/ 8/ 8.1 operation system

### **Installation Guide:**

1. Install the Smart Ear Utility from the driver DVD.
2. Connect the earphone to audio line-out port of rear I/Os.

**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

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

### **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.

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## APPENDIX: Specifications in Other Languages

### Arabic

المواصفات		
المأخذ 1150 لمعالج إيه إم دي Intel® Core i7 / i5 / i3 / Pentium / Celeron الحد الأقصى للطاقة الحرارية في تصميم المعالج ( TDP – thermal design power ) : 95 واط. * يرجى الرجوع إلى الموقع <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> لقائمة دعم المعالج CPU.	قاعدة وحدة المعالجة المركزية	
INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)	مجموعة الشرائح	
2x دي. دي. آر. DDR3 1066/ 1333/ 1600 تدعم قناة مزدوجة دي. دي. آر. 2x دي. دي. آر. DDR3 فتحات الذاكرة المزدوجة DIMM، تتحمل كحد أقصى 16 جيجابايت ذاكرة كل فتحة مزدوجة DIMM تتحمل دون 512 ECC ميجا بايت / 8/4/2/1جيجابايت دي. دي. آر. DDR3 * يرجى الرجوع إلى الموقع <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> لقائمة دعم الذاكرة.	الذاكرة	
AHCI INTEL® H81 تتحمل رايد AHCI وصلة 2x ساتا SATA 6 جيجا بايت / الثانية وصلة 2x ساتا SATA 3 جيجا بايت / الثانية	التخزين	
ريالتيك رت ل REALTEK RTL 8111G 1000 / 100 / 10 ميجابايت / الثانية ، تحديد تلقائي ، النصف / القدرة القصوى المزدوجة	شبكة محلية LAN	
Hi Biostar-Fi، ALC892، 7.1 قنوات عالية الدقة	الترميز الصوتي	
INTEL® B85 منافذ 4 x ناقل متسلسل عام USB 3.0 ( 2 في المداخل والمخارج الخلفية و 2 من خلال الموزع الداخلي ) منافذ 6 x ناقل متسلسل عام USB 2.0 ( 2 في المداخل والمخارج الخلفية و 4 من خلال الموزع الداخلي ) INTEL® H81 منافذ 2 x ناقل متسلسل عام USB 3.0 ( 2 في المداخل والمخارج الخلفية ) منافذ 6 x ناقل متسلسل عام USB 2.0 ( 2 في المداخل والمخارج الخلفية و 4 من خلال الموزع الداخلي )	ناقل متسلسل عام USB	
2 x فتحة منفذ الملحقات الإضافية PCIe 2.0 x 1 16 x 3.0 PCIe (x16) 1، Hi-Fi B85S1 16 x 2.0 PCIe (x16) 1، Hi-Fi H81S1	فتحات التوسع	
1 x PS/2 الماوس 1 x لوحة المفاتيح PS/2 فتحة توصيل عدد 1 x منظومة العرض المرني VGA فتحة توصيل عدد 1 x واجهة مرئية رقمية DVI فتحة لتوصيل عدد 1 x الشبكة المحلية LAN فتحة توصيل عدد 2 x ناقل متسلسل عام USB 2.0 فتحة توصيل عدد 2 x ناقل متسلسل عام USB 3.0 فتحة توصيل عدد 3 x جاك للصوت	المداخل والمخارج الخلفية	
Hi-Fi H81S1 وصلة 2 x SATA 6 جيجابايت / الثانية وصلة 2 x SATA 3 جيجابايت / الثانية موزع 2 x ناقل متسلسل عام USB 2.0 ( كل موزع يتحمل فتحتين ناقل متسلسل عام USB 2.0 ) وصلة للطاقة 1 x 4 دبابيس وصلة للطاقة 1 x 24 دبوس وصلة 1 x مروحة تبريد وحدة المعالجة المركزية وصلة 1 x مروحة تبريد المنظومة موزع 1 x اللوحة الأمامية	Hi-Fi B85S1 وصلة 4 x SATA 6 جيجابايت / الثانية موزع 2 x ناقل متسلسل عام USB 2.0 ( كل موزع يتحمل فتحتين ناقل متسلسل عام USB 2.0 ) موزع 1 x ناقل متسلسل عام USB 3.0 ( كل موزع يتحمل فتحتين ناقل متسلسل عام USB 3.0 ) وصلة للطاقة 1 x 4 دبابيس وصلة للطاقة 1 x 24 دبوس وصلة 1 x مروحة تبريد وحدة المعالجة المركزية وصلة 1 x مروحة تبريد المنظومة	المداخل والمخارج الداخلية

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## Hi-Fi B85S1 & Hi-Fi H81S1

المواصفات		
موزع 1 x اللوحة الأمامية	موزع 1 x الصوت الأمامي	
موزع 1 x الصوت الأمامي	موزع 1 x سيموس مباشر	
موزع 1 x سيموس مباشر	موزع 1 x فتحة تسلسلية	
موزع 1 x فتحة تسلسلية	وصلة 1 x خارجية S/PDIF سوني فيليبس	
وصلة 1 x خارجية S/PDIF سوني فيليبس	الرقمية	
الواجهة الرقمية	موزع 1 x فتحة للطابعة	
موزع 1 x فتحة للطابعة		
عامل شكل مدد التكنولوجيا المتقدمة microATX ، 226x 174 مم	عامل الشكل	
ويندوز 7 / ويندوز 8 / ويندوز 8.1	أنظمة التشغيل المدعومة	
بيوستار BIOSTAR تحتفظ بحق إضافة أو إزالة الدعم لأي نظام تشغيل مع أو بدون أنظار.		

## French

Spécifications		
Support Unité Centrale	Socket 1150 Processeurs Intel® Core i7 / i5 / i3 / Pentium / Celeron Enveloppe thermique Unité Centrale maximum : 95Watt * Veuillez vous reporter à <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> pour la liste des supports modèles d'Unité Centrale.	
Jeu de puces	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)	
Mémoire	Supporte mémoire DDR3 double canal 1066/ 1333/ 1600 Banc de mémoire 2 x DDR3 DIMM, Supporte max. jusqu'à une mémoire de 16 GB Chaque module DIMM supporte module DDR3 non-ECC 512MB/ 1/ 2/ 4/ 8 GB * Veuillez vous reporter à <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> pour la liste des soutien de la mémoire.	
Stockage	INTEL® B85, Supporte SRT Connecteur 4 x SATA 6Gb/s	INTEL® H81, Supporte SRT Connecteur 2 x SATA 6Gb/s Connecteur 2 x SATA 3Gb/s
Réseau local	Realtek RTL 8111G, 10/ 100/ 1000 Mb/s auto négociation, capacité bidirectionnelle à l'alternat / bidirectionnelle simultanée	
Codec audio	ALC892, Canaux 7.1, écoute audio de haute définition, Biostar Hi-Fi	
USB	INTEL® B85 Port 4x USB 3.0 (2 sur les I/O arrières et 2 en interne) Port 6x USB 2.0 (2 sur les I/O arrières et 4 en interne) INTEL® H81 Port 2x USB 3.0 (2 sur les I/O arrières) Port 6x USB 2.0 (2 sur les I/O arrières et 4 en interne)	
Connecteur d'extension	2x PCIe 2.0 x1 Fente 1x PCIe 3.0 x16 Fente (x16), Hi-Fi B85S1 1x PCIe 2.0 x16 Fente (x16), Hi-Fi H81S1	
I/O arrières	1x PS/2 Clavier 1x PS/2 Souris 1x Port VGA 1x Port DVI 1x port LAN 2x Port USB 2.0 2x Port USB 3.0 3x entrées audio	
I/O en interne	Hi-Fi B85S1 4x Connecteur SATA 6.0Gb/s 2x embases USB 2.0 (chaque embase supporte 2 Ports USB 2.0) 1x embases USB 3.0 (chaque embase supporte 2 Ports USB 3.0) 1x 4-Broche de carte	Hi-Fi H81S1 2x Connecteur SATA 6.0Gb/s 2x Connecteur SATA 3.0Gb/s 2x embases USB 2.0 (chaque embase supporte 2 Ports USB 2.0) 1x 4-Broche de carte 1x 24-Broche de carte



## Hi-Fi B85S1 & Hi-Fi H81S1

Spécifications		
	1x 24-Broche de carte 1x Connecteur ventilateur unité centrale 1x Connecteur ventilateur système 1x Fiche panneau avant 1x Fiche audio avant 1x Fiche mémoire CMOS vide 1x Embase port série 1x Connecteur sortie S/PDIF 1x Embase port imprimante	1x Connecteur ventilateur unité centrale 1x Connecteur ventilateur système 1x Fiche panneau avant 1x Fiche audio avant 1x Fiche mémoire CMOS vide 1x Embase port série 1x Connecteur sortie S/PDIF 1x Embase port imprimante
Facteur d'encombrement	Facteur d'encombrement microATX, 226 mm x 174 mm	
Support SE	Windows 7/ 8/ 8.1, Biostar se réserve le droit d'ajouter ou d'enlever le support pour toute SE avec ou sans préavis.	

## German

Spezifikationen	
CPU-Unterstützung	Anschluss-1150 für Intel® Core i7 / i5 / i3 / Pentium / Celeron Prozessor Maximale CPU TDP (Thermal Design Power): 95 Watt * Bitte konsultieren Sie <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> für CPU-Unterstützungsliste
Chipset	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)
Festplattenspeicher	Unterstützt zweikanaliges DDR3 1066/ 1333/ 1600 2 x DDR3 DIMM-SpeicherSlot, Max. Unterstützung bis zu 16 GB-Speicher Jedes DIMM unterstützt nicht-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3-Module * Bitte konsultieren Sie <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> für Speicherunterstützung Liste.
Arbeitsspeicher	INTEL® B85, Unterstützt AHCI 4x SATA 6Gb-Verbindung INTEL® H81, Unterstützt AHCI 2x SATA 6Gb-Verbindung 2x SATA 3Gb-Verbindung
LAN	Realtek RTL 8111G, 10/ 100/ 1000 Mb Auto-Negotiation, Halb- / Voll-Duplex-fähig
Audio-Codec	ALC892, 7.1 Kanäle, HD-Audio, Biostar Hi-Fi
USB	INTEL® B85 4x USB 3.0-Port (2 hintere I/Os und 2 via interne Header) 6x USB 2.0-Port (2 hintere I/Os und 4 via interne Header) INTEL® H81 2x USB 3.0-Port (2 hintere I/Os) 6x USB 2.0-Port (2 hintere I/Os und 4 via interne Header)
Erweiterungsanschlüsse	2x PCIe 2.0 x1-Slot 1x PCIe 3.0 x16-Slot (x16), Hi-Fi B85S1 1x PCIe 2.0 x16-Slot (x16), Hi-Fi H81S1
Hintere I/Os	1x PS/2-Maus 1x PS/2-Tastatur 1x VGA-Port 1x DVI-Port 1x LAN-Port 2x USB 2.0-Port 2x USB 3.0-Port 3x Audio Jack
Interne I/Os	Hi-Fi B85S1 4x SATA 6.0Gb/s-Verbindung 2x USB 2.0-Header (jeder Header unterstützt 2 USB 2.0-Ports) 1x USB 3.0-Header (jeder Header unterstützt 2 USB 3.0-Ports) 1x 4-Pin-Stromverbindung 1x 24-Pin-Stromverbindung 1x CPU-Ventilatorverbindung Hi-Fi H81S1 2x SATA 6.0Gb/s-Verbindung 2x SATA 3.0Gb/s-Verbindung 2x USB 2.0-Header (jeder Header unterstützt 2 USB 2.0-Ports) 2 USB 2.0-Ports) 1x 4-Pin-Stromverbindung 1x 24-Pin-Stromverbindung 1x CPU-Ventilatorverbindung 1x System-Ventilatorverbindung

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**Hi-Fi B85S1 & Hi-Fi H81S1**

Spezifikationen	
	<div>1x System-Ventilatorverbindung</div> <div>1x Header für Frontpanel</div> <div>1x Header für Frontaudio</div> <div>1x Header für klares CMOS</div> <div>1x Serieller Port-Header</div> <div>1x S/PDI-Auswurfsverbindung</div> <div>1x Header für Druckeranschluss</div> <div>1x Header für Frontpanel</div> <div>1x Header für Frontaudio</div> <div>1x Header für klares CMOS</div> <div>1x Serieller Port-Header</div> <div>1x S/PDI-Auswurfsverbindung</div> <div>1x Header für Druckeranschluss</div>
Formfaktor	microATX Formfaktor, 226 mm x 174 mm
OS-Unterstützung	Windows 7/ 8/ 8.1 Biostar reserves the right to add or remove support for any OS with or without notice.

## Italian

Specificazioni		
Supporto processore	Slot 1150 per processore Intel® Core i7 / i5 / i3 / Pentium / Celeron Alimentazione di Proiezione Termico (TDP – Thermal Design Power): 95Watt * Si prega di consultare <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> per la lista di supporto del processore.	
Tipo scheda	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)	
Memoria	Supporta DDR3 1066/ 1333/ 1600 Doppio Canale 2 x DDR3 DIMM Slot di Memoria Supporta fino a 16 GB Memoria Ogni DIMM supporta non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3 moduli * Si prega di consultare <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> per la lista di supporto del memoria.	
Memorizzazione	INTEL® B85, Supporta AHCI Connettore 4x SATA 6Gb/s	INTEL® H81, Supporta AHCI Connettore 2x SATA 6Gb/s Connettore 2x SATA 3Gb/s
Catena	Realtek RTL 8111G 10/ 100/ 1000 Mb auto negoziazione, capacita di duplex Meta / Completo	
Codec Audio	ALC892, Canali Audio di Alta Definizione 7.1, Biostar Hi-Fi	
USB	INTEL® B85 Slot 4x USB 3.0 (2 nei ingressi/ uscite posteriore e 2 da distributori interni) Slot 6x USB 2.0 (2 nei ingressi/ uscite posteriore e 4 da distributori interni) INTEL® H81 Slot 2x USB 3.0 (2 nei ingressi/ uscite posteriore) Slot 6x USB 2.0 (2 nei ingressi/ uscite posteriore e 4 da distributori interni)	
Slot di espansione	Slot 2x PCIe 2.0 x1 Slot 1x PCIe 3.0 x16 (x16), Hi-Fi B85S1 Slot 1x PCIe 2.0 x16 (x16), Hi-Fi H81S1	
Ingressi/ Uscite Posteriore	Mouse 1x PS/2 Tastiera 1x PS/2 Slot 1x VGA Slot 1x DVI Slot 1x LAN Slot 2x USB 2.0 Slot 2x USB 3.0 Jack audio 3x	
Ingressi/ Uscite Interni	Hi-Fi B85S1 Connettore 4x SATA 6.0Gb/s Distributore 2x USB 2.0 (ogni distributore supporta 2 slot USB 2.0) Distributore 1x USB 3.0 (ogni distributore supporta 2 slot USB 3.0) Connettore con 4 pin x1 Connettore con 24 pin x1	Hi-Fi H81S1 Connettore 2x SATA 6.0Gb/s Connettore 2x SATA 3.0Gb/s Distributore 2x USB 2.0 (ogni distributore supporta 2 slot USB 2.0) Connettore con 4 pin x1 Connettore con 24 pin x1 Connettore Ventilatore processore x1

## Hi-Fi B85S1 & Hi-Fi H81S1

Specificazioni	
	Connettore Ventilatore processore x1    Connettore Ventilatore Sistema x1 Connettore Ventilatore Sistema x1    Distributore Pannello Frontale x1 Distributore Pannello Frontale x1    Distributore Audio Frontale x1 Distributore Audio Frontale x1    Distributore CMOS Diretto x1 Distributore CMOS Diretto x1    Distributore Slot Serie x1 Distributore Slot Serie x1    Connettore esterno S/PDIF x1 Connettore esterno S/PDIF x1    Distributore Slot Stampante x1 Distributore Slot Stampante x1
Fattore di Forma	Fattore di Forma microATX, 226 mm x 174 mm
Supporto SO	Windows 7/ 8/ 8.1 Biostar si riserva il diritto di aggiungere o ritirare il supporto per qualsiasi SO con o senza preavviso.

## Japanese

仕様	
CPU サポート	Intel® Core i7 / i5 / i3 / Pentium / Celeron プロセッサの Socket 1150 最大 CPU TDP (Thermal Design Power 最大放熱量): 95 W *CPU サポート リストについては、 <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> を参照してください。
チップセット	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)
メモリ	デュアルチャンネル1066/ 1333/ 1600 をサポート 2 x DDR3 DIMM メモリ スロット、最大 16 GB メモリまでサポート 各 DIMM は、非-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3 モジュールをサポートしています *サポートされているメモリのリストについては、 <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> を参照してください。
保存スペース	INTEL® B85, AHCI のサポート      INTEL® H81, AHCI のサポート 4x SATA 6Gb/s コネクタ      2x SATA 6Gb/s コネクタ 2x SATA 3Gb/s コネクタ
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb/s オートネゴシエーション、半/全 二重通信
オーディオ コーデック	ALC892 7.1 チャンネル、ハイ デフィニション オーディオ, Biostar Hi-Fi
USB	INTEL® B85 4x USB 3.0 ポート (後部 I/O に2つ 及び 内蔵 ヘッダー経由に2つ) 6x USB 2.0 ポート (後部 I/O に2つ 及び 内蔵ヘッダー経由に4つ) INTEL® H81 2x USB 3.0 ポート (後部 I/O に2つ) 6x USB 2.0 ポート (後部 I/O に2つ 及び 内蔵ヘッダー経由に4つ)
拡張スロット	2x PCIe 2.0 x1 スロット 1x PCIe 3.0 x16 スロット(x16), Hi-Fi B85S1 1x PCIe 2.0 x16 スロット(x16), Hi-Fi H81S1
後部 I/O	1x PS/2 マウス 1x PS/2 キーボード 1x VGA ポート 1x DVI ポート 1x LAN ポート 2x USB 2.0 ポート 2x USB 3.0 ポート 3x オーディオ ジャック
内蔵 I/O	Hi-Fi B85S1      Hi-Fi H81S1 4x SATA 6.0Gb/s コネクタ      2x SATA 6.0Gb/s コネクタ 2x USB 2.0 ヘッダー (各ヘッダーは、2つの USB 2.0 ポートをサポートしています)      2x SATA 3.0Gb/s コネクタ 1x USB 3.0 ヘッダー (各ヘッダーは、      2x USB 2.0 ヘッダー (各ヘッダーは、2つの USB 2.0 ポートをサポートしています) 1x 4-Pin パワー コネクタ

## Hi-Fi B85S1 & Hi-Fi H81S1

仕様	
	<div> <div>2つの USB 3.0 ポートをサポートしています)</div> <div>1x 4-Pin パワー コネクタ</div> <div>1x 24-Pin パワー コネクタ</div> <div>1x CPU ファン コネクタ</div> <div>1x システム ファン コネクタ</div> <div>1x フロント パネル ヘッダー</div> <div>1x フロント オーディオ ヘッダー</div> <div>1x クリア CMOS ヘッダー</div> <div>1x シリアル ポート ヘッダー</div> <div>1x S/PDIF アウト コネクタ</div> <div>1x プリンター ポート ヘッダー</div> </div> <div> <div>1x 24-Pin パワー コネクタ</div> <div>1x CPU ファン コネクタ</div> <div>1x システム ファン コネクタ</div> <div>1x フロント パネル ヘッダー</div> <div>1x フロント オーディオ ヘッダー</div> <div>1x クリア CMOS ヘッダー</div> <div>1x シリアル ポート ヘッダー</div> <div>1x S/PDIF アウト コネクタ</div> <div>1x プリンター ポート ヘッダー</div> </div>
フォーム ファクタ	microATX フォーム ファクタ、226 mm x 174 mm
サポート OS	Windows 7/ 8/ 8.1 Biostar には、通知なしでサポート OS を変更する権限があります。

## Polish

Specyfikacje techniczne	
Obsługa procesora	Gniazdo procesora (Socket) 1150 dla procesorów Intel® Core i7 / i5 / i3 / Pentium / Celeron Moc Wydzielanego Ciepła (TDP - Thermal Design Power): 95Watt * Proszę sprawdzić listę obsługiwanych procesorów na stronie internetowej <a href="http://www.biostar.com.tw">www.biostar.com.tw</a>
Rodzaj płyty	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)
Pamięć	Obsługa pamięci DDR3 1066/ 1333/ 1600 Dwukanałowa 2 x DDR3 DIMM Pamięć Gniazda procesora (Slot), Maksymalna wielkość pamięci 16 GB Każdy DIMM obsługuje jeden moduł non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3 * Proszę sprawdzić listę obsługiwanych pamięć na stronie internetowej <a href="http://www.biostar.com.tw">www.biostar.com.tw</a>
Przechowywanie	INTEL® B85, Obsługa AHCI Złącze 4x SATA 6Gb/s INTEL® H81, Obsługa AHCI Złącze 2x SATA 6Gb/s Złącze 2x SATA 3Gb/s
LAN	Układ RTL 8111G, 10/ 100/ 1000 Mb auto negocjacja, pojemność duplex Połowe / Pełny
Codec Audio	ALC892, Kanały Audio wysokiej Definicji 7.1, Biostar Hi-Fi
USB	INTEL® B85 4 x złącza USB 3.0 (2 przez tylne porty wejścia/ wyjścia oraz 2 przez wewnętrzne porty) 6 x złącza USB 2.0 (2 przez tylne porty wejścia/ wyjścia oraz 4 przez wewnętrzne porty) INTEL® H81 2 x złącza USB 3.0 (2 przez tylne porty wejścia) 6 x złącza USB 2.0 (2 przez tylne porty wejścia/ wyjścia oraz 4 przez wewnętrzne porty)
Złącza rozszerzeń	złącze 2x PCIe 2.0 x1 (Slot) złącza 1x PCIe 3.0 x16 (Slot) (x16), Hi-Fi B85S1 złącza 1x PCIe 2.0 x16 (Slot) (x16), Hi-Fi H81S1
Tylne porty wejścia/ wyjścia	Myszka 1x PS/2 Klawiatura 1x PS/2 Port 1x VGA Port 1x DVI Port 1x LAN Porty 2x USB 2.0 Porty 2x USB 3.0 Porty audio 3x



## Hi-Fi B85S1 & Hi-Fi H81S1

Specyfikacje techniczne		
Wewnętrzne porty wejścia/ wyjścia	Hi-Fi B85S1	Hi-Fi H81S1
	Złącza 4x SATA 6.0Gb/s Złącza 2x USB 2.0 (każde złącze obsługuje dodatkowe 2 porty USB 2.0) Złącza 1x USB 3.0 (każde złącze obsługuje dodatkowe 2 porty USB 3.0) Złącza 4 pionowe x 1 Złącza 24 pionowe x 1 Złącze wentylatora CPU x 1 Złącze wentylatora obudowy x 1 Złącze przedniego panelu x1 Złącze audio przedniego panelu x1 Złącze bezpośrednie CMOS x1 Port szeregowy x1 Port zewnętrzny S/PDIF x1 Złącze port drukarki x1	Złącza 2x SATA 6.0Gb/s Złącza 2x SATA 3.0Gb/s Złącza 2x USB 2.0 (każde złącze obsługuje dodatkowe 2 porty USB 2.0) Złącza 4 pionowe x 1 Złącza 24 pionowe x 1 Złącze wentylatora CPU x 1 Złącze wentylatora obudowy x 1 Złącze przedniego panelu x1 Złącze audio przedniego panelu x1 Złącze bezpośrednie CMOS x1 Port szeregowy x1 Port zewnętrzny S/PDIF x1 Złącze port drukarki x1
Obudowa	Obudowa microATX, 226 mm x 174 mm	
Obsługa OS	Windows 7/ 8/ 8.1 Biostar zastrzega sobie prawo do dodania lub wycofania obsługi dla OS, z wypowiedzeniem lub bez wypowiedzenia.	

## Portuguese

Especificações	
Suporte Processador	Porta 1150 para processador Intel® Core i7 / i5 / i3 / Pentium / Celeron Alimentação de Design Térmico (TDP – Thermal Design Power): 95Watt * Por favor consulte <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> para obter uma lista de suporte do processador.
Tipo Placa Mãe	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)
Memória	Suporta DDR3 1066/ 1333/ 1600 Canal Duplo 2 x DDR3 DIMM Slot de memória Suporta até 16 GB Memória Cada DIMM suporta non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3 módulo * Por favor consulte <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> para obter uma lista de suporte do memória.
Armazenamento	INTEL® B85, Suporta AHCI Conector 4x SATA 6Gb/s INTEL® H81, Suporta AHCI Conector 2x SATA 6Gb/s Conector 2x SATA 3Gb/s
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb auto negociação, capacidade duplex Metade / Cheio
Codec de Audio	ALC892, Canais de Áudio de Alta Definição 7.1, Biostar Hi-Fi
USB	INTEL® B85 Porta 4x USB 3.0 (2 nas entradas/saídas traseiras e 2 pelos Dispositivos internos) Porta 6x USB 2.0 (2 nas entradas/saídas traseiras e 4 pelos Dispositivos internos) INTEL® H81 Porta 2x USB 3.0 (2 nas entradas/saídas traseiras) Porta 6x USB 2.0 (2 nas entradas/saídas traseiras e 4 pelos Dispositivos internos)
Slots de expansão	Porta 2x PCIe 2.0 x1 Porta 1x PCIe 3.0 x16 (x16), Hi-Fi B85S1 Porta 1x PCIe 2.0 x16 (x16), Hi-Fi H81S1
Entradas/Saídas no painel traseiro	Mouse 1x PS/2 Teclado 1x PS/2 Porta 1x VGA Porta 1x DVI Porta 1x LAN Porta 2x USB 2.0 Porta 2x USB 3.0 Soquete audio 3x

## Hi-Fi B85S1 & Hi-Fi H81S1

Especificações		
Conectores na placa	Hi-Fi B85S1	Hi-Fi H81S1
	Conector 4x SATA 6.0Gb/s	Conector 2x SATA 6.0Gb/s
	Dispositivo 2x USB 2.0 (cada	Conector 2x SATA 3.0Gb/s
	Dispositivo suporta 2 portas USB 2.0)	Dispositivo 2x USB 2.0 (cada Dispositivo
	Dispositivo 1x USB 3.0 (cada	suporta 2 portas USB 2.0)
	Dispositivo suporta 2 portas USB 3.0)	Conector de 4 pinos x1
	Conector de 4 pinos x1	Conector de 24 pinos x1
	Conector de 24 pinos x1	Conector de Ventoinha processador x1
	Conector de Ventoinha processador x1	Conector de Ventoinha Sistema x1
	Conector de Ventoinha Sistema x1	Dispositivo Painel Frontal x1
	Dispositivo Painel Frontal x1	Dispositivo de Audio Frontal x1
	Dispositivo de Audio Frontal x1	Dispositivo CMOS Direct x1
	Dispositivo CMOS Direct x1	Dispositivo Porta Série x1
	Dispositivo Porta Série x1	Conector Externo S/PDIF x1
	Conector Externo S/PDIF x1	Dispositivo Porta Impressora x1
	Dispositivo Porta Impressora x1	
Fator de Fôrma	Fator de Fôrma microATX, 226 mm x 174 mm	
Suporte OS	Windows 7/ 8/ 8.1 Biostar reserva seu direito de adicionar ou retirar o suporte para qualquer OS com ou sem notificação.	

## Russian

Спецификации	
Поддержка центрального процессора	Сокет 1150 для процессоров Intel® Core i7 / i5 / i3 / Pentium / Celeron Максимальный термopakет центрального процессора (TDP): 95 ватт * Перечень поддержки центрального процессора смотрите на <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> .
Набор микросхем	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)
Память	Поддерживает двухканальный 1066/ 1333/ 1600 2 гнезда платы памяти DDR3 DIMM, максимальная память до 16 Гб Каждый модуль DIMM поддерживает модуль не-ECC 512 Мб/ 1/ 2/ 4/ 8 Гб DDR3 * Перечень поддержки памяти смотрите на <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> .
Накопитель	INTEL® B85, Поддерживает AHCI Соединитель 4x SATA 6 Гб/с INTEL® H81, Поддерживает AHCI Соединитель 2x SATA 6 Гб/с Соединитель 2x SATA 3 Гб/с
Локальная сеть	Realtek RTL 8111G Автосогласование 10/ 100/ 1000 Мб/с, работает в полно/полудуплексном режиме
Аудиокодек	ALC892, Каналы 7.1, высококачественное аудио, Biostar Hi-Fi
USB	INTEL® B85 4 порта USB 3.0 (2 сзади ввода-вывода и 2 через внутренние контакты) 6 порта USB 2.0 (2 сзади ввода-вывода и 4 через внутренние контакты) INTEL® H81 2 порта USB 3.0 (2 сзади ввода-вывода) 6 порта USB 2.0 (2 сзади ввода-вывода и 4 через внутренние контакты)
Гнезда расшир.	2x PCIe 2.0 x1 гнездо 1x PCIe 3.0 x16 гнездо (x16), Hi-Fi B85S1 1x PCIe 2.0 x16 гнездо (x16), Hi-Fi H81S1
Задняя плата ввода-вывода	1 мышь PS/2 1 клавиатура PS/2 1 порт VGA 1 порт DVI 1 порт локальной сети 2 порта USB 2.0 2 порта USB 3.0 3 гнезд для подключения наушников
Внутр. Плата ввода-вывода	Hi-Fi B85S1 Соединитель 4x SATA 6 Гб/с 2 контакта USB 2.0 (каждый контакт поддерживает 2 порта USB 2.0) 1 контакта USB 3.0 (каждый контакт поддерживает 2 порта USB 3.0) 1 4-выводный разъем питания 1 24-выводный разъем питания Hi-Fi H81S1 Соединитель 2x SATA 6 Гб/с Соединитель 2x SATA 3 Гб/с 2 контакта USB 2.0 (каждый контакт поддерживает 2 порта USB 2.0) 1 4-выводный разъем питания 1 24-выводный разъем питания 1 разъем вентилятора ЦП

## Hi-Fi B85S1 & Hi-Fi H81S1

Спецификации	
	<div> <div> 1 разъем вентилятора ЦП  1 разъема вентилятора системы  1 контакт передней панели  1 контакт передней аудиопанели  1 контакт микросхемы Clear CMOS  1 контакт последовательного порта  1 соединитель S/PDIF-Out  1 контакт порта принтера </div> <div> 1 разъема вентилятора системы  1 контакт передней панели  1 контакт передней аудиопанели  1 контакт микросхемы Clear CMOS  1 контакт последовательного порта  1 соединитель S/PDIF-Out  1 контакт порта принтера </div> </div>
Конструктив	Форм-фактор microATX, 226 мм x 174 мм
Поддержка ОС	<p>Windows 7/ 8/ 8.1</p> <p>Biostar оставляет за собой право добавлять или удалять поддержку любой ОС, с уведомлением или без.</p>

## Spanish

Especificaciones	
Compatibilidad con el procesador	Ranura 1150 para procesador Intel® Core i7 / i5 / i3 / Pentium / Celeron Alimentación de Proyección Térmica (TDP – Thermal Design Power): 95Watt *Por favor consultar con <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> para la lista de compatibilidad con el procesador.
Tipo de Placa	INTEL® B85 (Hi-Fi B85S1) INTEL® H81 (Hi-Fi H81S1)
Memoria	Soporta DDR3 1066/ 1333/ 1600 Doble Canal 2x DDR3 DIMM Ranura de memoria Soporta hasta 16 GB Memoria Cada DIMM soporta un modulo non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3 *Por favor consultar con <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> para la lista de compatibilidad con el memoria.
Almacenamiento de información	INTEL® B85, Soporta AHCI Conector 4x SATA 6Gb/s INTEL® H81, Soporta AHCI Conector 2x SATA 6Gb/s Conector 2x SATA 3Gb/s
LAN	Realtek RTL 8111G 10/ 100/ 1000 Mb/s auto negociación, capacidad dúplex Mitad/Completo
Códec Audio	ALC892, Canales Audio de Alta Definición 7.1, Biostar Hi-Fi
USB	INTEL® B85 Ranura 4x USB 3.0 (2 en las entrada/salidas posteriores y 2 por los distribuidores internos) Ranura 6x USB 2.0 (2 en las entrada/salidas posteriores y 4 por los distribuidores internos) INTEL® H81 Ranura 2x USB 3.0 (2 en las entrada/salidas posteriores) Ranura 6x USB 2.0 (2 en las entrada/salidas posteriores y 4 por los distribuidores internos)
Ranuras de Extinción	Ranura 2x PCIe 2.0 x1 Ranura 1x PCIe 3.0 x16 (x16), Hi-Fi B85S1 Ranura 1x PCIe 2.0 x16 (x16), Hi-Fi H81S1
Panel trasero de E/S	Ratón 1x PS/2 Teclado 1x PS/2 Ranura 1x VGA Ranura 1x DVI Ranura 1x LAN Ranura 2x USB 2.0 Ranura 2x USB 3.0 Socket audio 3x

## Hi-Fi B85S1 & Hi-Fi H81S1

Especificaciones		
Conectores en placa	Hi-Fi B85S1	Hi-Fi H81S1
	Conector 4x SATA 6Gb's	Conector 2x SATA 6Gb's
	Distribuidor 2x USB 2.0 (cada distribuidor soporta 2 ranuras USB 2.0)	Conector 2x SATA 3Gb's
	Distribuidor 1x USB 3.0 (cada distribuidor soporta 2 ranuras USB 3.0)	Distribuidor 2x USB 2.0 (cada distribuidor soporta 2 ranuras USB 2.0)
	Conector con 4 patillas x1	Conector con 4 patillas x1
	Conector con 24 patillas x1	Conector con 24 patillas x1
	Conector Ventilador procesador x1	Conector Ventilador procesador x1
	Conector Ventilador Sistema x1	Conector Ventilador Sistema x1
	Distribuidor Panel Frontal x1	Distribuidor Panel Frontal x1
	Distribuidor Audio Frontal x1	Distribuidor Audio Frontal x1
	Distribuidor CMOS Directo x1	Distribuidor CMOS Directo x1
	Distribuidor Ranura Serie x1	Distribuidor Ranura Serie x1
	Conector Externo S/PDIF x1	Conector Externo S/PDIF x1
	Distribuidor Ranura Impresora x1	Distribuidor Ranura Impresora x1
	Distribuidor Ranura Impresora x1	
Factor de Forma	Factor de Forma microATX, 226 mm x 174 mm	
Soporte OS	Windows 7/ 8/ 8.1 Biostar reserva su derecho de añadir o retirar el soporte para cada OS con o sin notificación.	

2015/01/30