

TH61A Setup Manual

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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
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

Table of Contents

Chapter 1: Introduction	1
1.1 Before You Start.....	1
1.2 Package Checklist	1
1.3 Motherboard Features.....	2
1.4 Rear Panel Connectors.....	3
1.5 Motherboard Layout.....	4
Chapter 2: Hardware Installation	5
2.1 Installing Central Processing Unit (CPU)	5
2.2 FAN Headers	7
2.3 Installing System Memory	8
2.4 Connectors and Slots.....	10
Chapter 3: Headers & Jumpers Setup	13
3.1 How to Setup Jumpers.....	13
3.2 Detail Settings	13
Chapter 4: Useful Help	17
4.1 Driver Installation Note.....	17
4.2 Software	18
4.3 Extra Information.....	22
4.4 AMI BIOS Beep Code	23
4.5 Troubleshooting	24
Appendix: SPEC In Other Languages	25
German.....	26
French	28
Italian.....	30
Spanish.....	32
Portuguese	34
Polish.....	36
Russian.....	38
Arabic.....	40
Japanese	42

CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

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

- Prepare a dry and stable working environment with sufficient lighting.
- Always disconnect the computer from power outlet before operation.
- Before you take the motherboard out from anti-static bag, ground yourself properly by touching any safely grounded appliance, or use grounded wrist strap to remove the static charge.
- Avoid touching the components on motherboard or the rear side of the board unless necessary. Hold the board on the edge, do not try to bend or flex the board.
- Do not leave any unfastened small parts inside the case after installation. Loose parts will cause short circuits which may damage the equipment.
- Keep the computer from dangerous area, such as heat source, humid air and water.
- The operating temperatures of the computer should be 0 to 45 degrees Celsius.

1.2 PACKAGE CHECKLIST

- ↳ Serial ATA Cable X 2
- ↳ Rear I/O Panel for ATX Case X 1
- ↳ User's Manual X 1
- ↳ Fully Setup Driver DVD X 1
- ↳ USB 2.0 Cable X1 (optional)
- ↳ Serial ATA Power Cable X 1 (optional)

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

Motherboard Manual

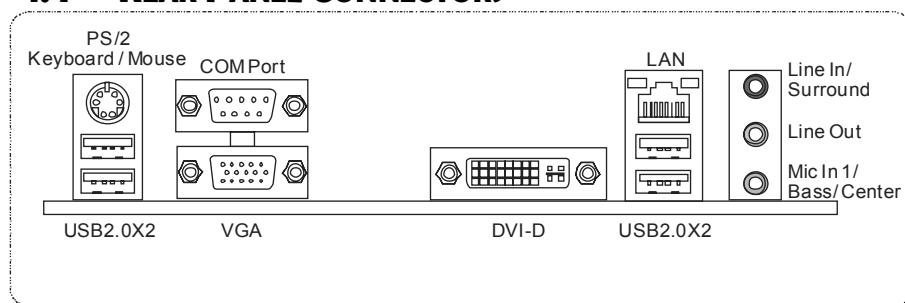
1.3 MOTHERBOARD FEATURES

SPEC			
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron processor		Supports Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading
Chipset	Intel H61		
Super I/O	IT8728 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 / 1600 (depending on CPU) Registered DIMM and ECC DIMM is not supported
SATA 2	Integrated Serial ATA Controller		Data transfer rates up to 3.0 Gb/s SATA Version 2.0 specification compliant
LAN	Realtek RTL8111E-VL-CG		10 / 100 Mb/s / 1Gb/s auto negotiation Half / Full duplex capability
Sound Codec	VT1708B		5.1 channels audio out High Definition Audio
Slots	PCI slot PCI-E Gen3 x16 @ x16 slot (depending on CPU) PCI-E Gen2 x16 @ x1 slot PCI-E Gen2 x1 slot	x2 x1 x1 x2	Supports PCI expansion card Supports PCI-E Gen2/3 x16 expansion card Supports PCI-E Gen2 x1 expansion card Supports PCI-E Gen2 x1 expansion card
On Board Connectors	SATA2 Connector Front Panel Connector Front Audio Connector CPU Fan Header	x4 x1 x1 x1	Each connector supports 1 SATA2 device Supports front panel facilities Supports front panel audio function CPU Fan power supply (with Smart Fan function)

TH61A

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

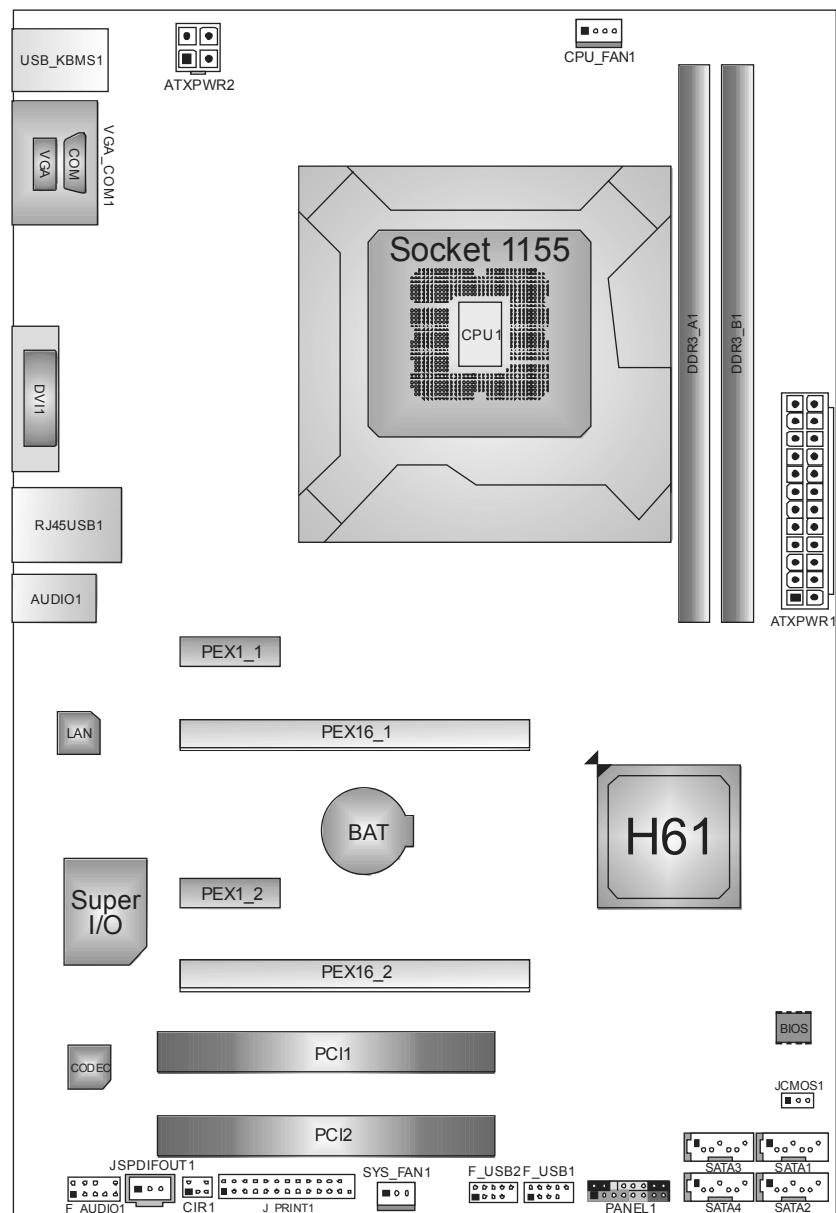
1.4 REAR PANEL CONNECTORS



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

Motherboard Manual

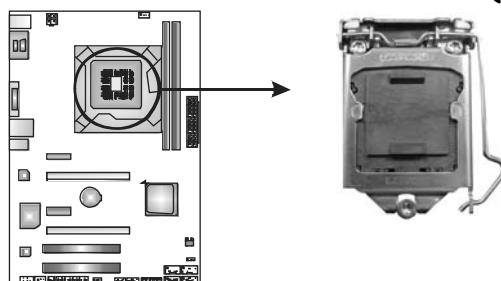
1.5 MOTHERBOARD LAYOUT



Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

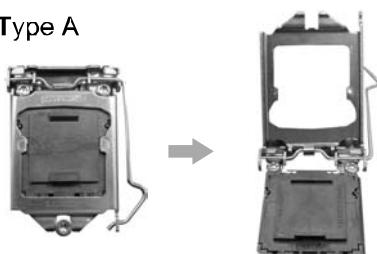


Notice:

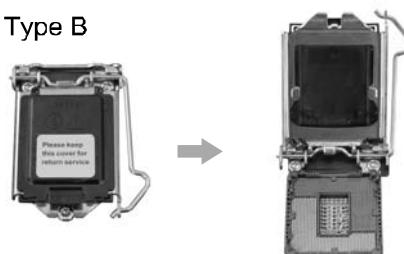
1. Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.
2. The motherboard might equip with two different types of pin cap. Please refer below instruction to remove the pin cap.

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

Type A

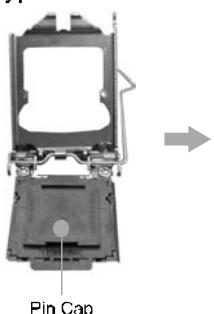


Type B

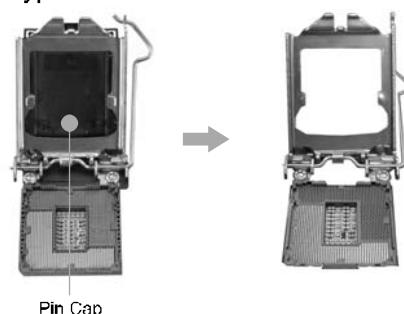


Step 2: Remove the Pin Cap.

Type A

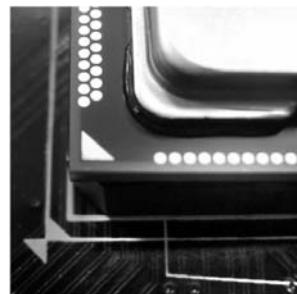


Type B



Motherboard Manual

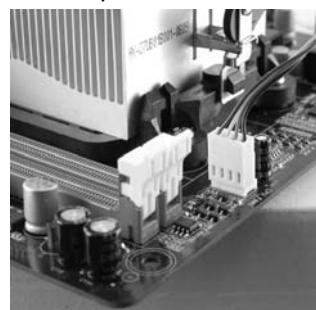
Step 3: Look for the triangular cut edge on socket, and the golden dot on CPU should point forwards this triangular cut edge. The CPU will fit only in the correct orientation.



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



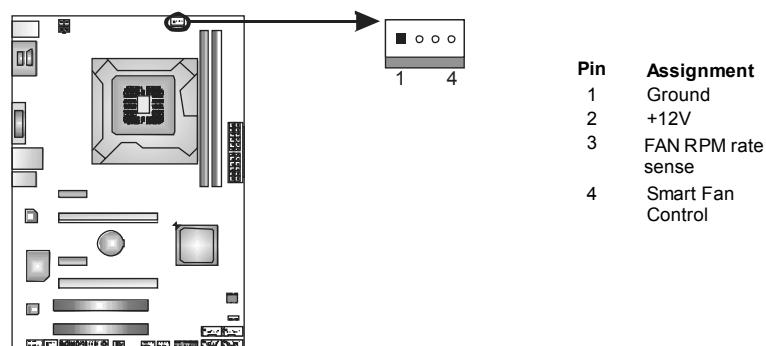
Step 5: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the CPU_FAN1 to complete the installation.



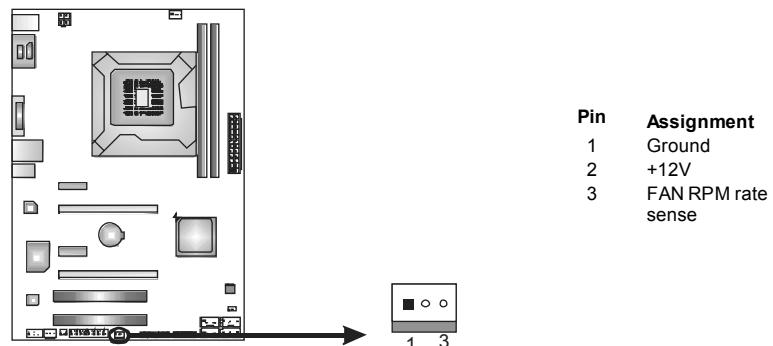
2.2 FAN HEADERS

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

CPU_FAN1: CPU Fan Header



SYS_FAN1: System Fan Header

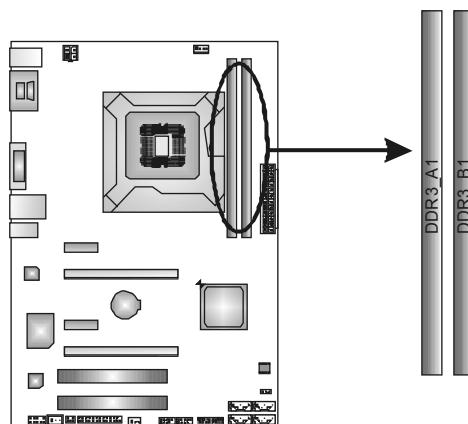


Note:

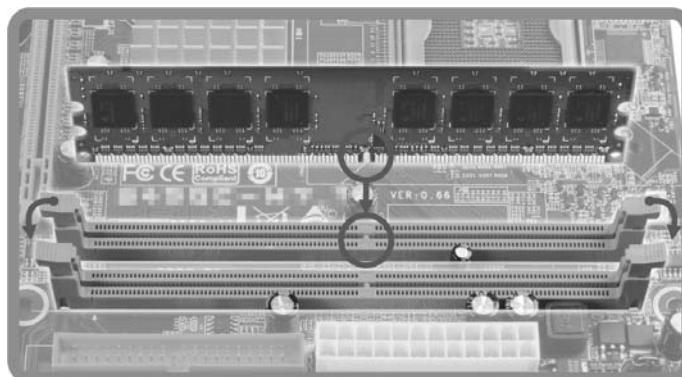
The SYS_FAN1 supports 3-pin head connector; the CPU_FAN1 supports 4-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

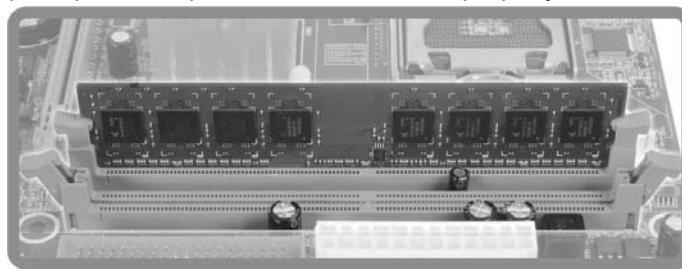
A. Memory Modules



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



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



B. Memory Capacity

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

C. Dual Channel Memory Installation

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

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

Dual Channel Status	DDR3_A1	DDR3_B1
Disabled	O	X
Disabled	X	O
Enabled	O	O

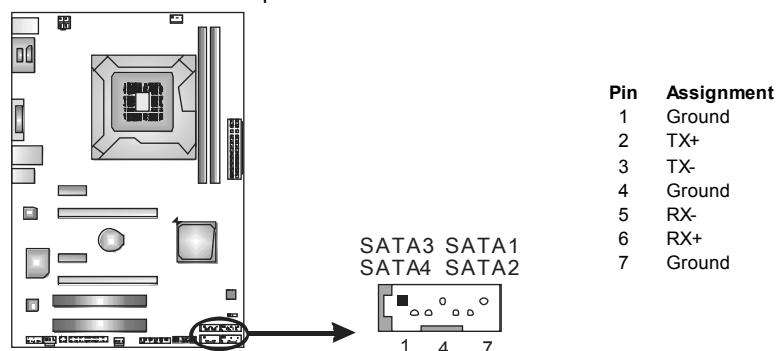
(O means memory installed, X means memory not installed.)

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

2.4 CONNECTORS AND SLOTS

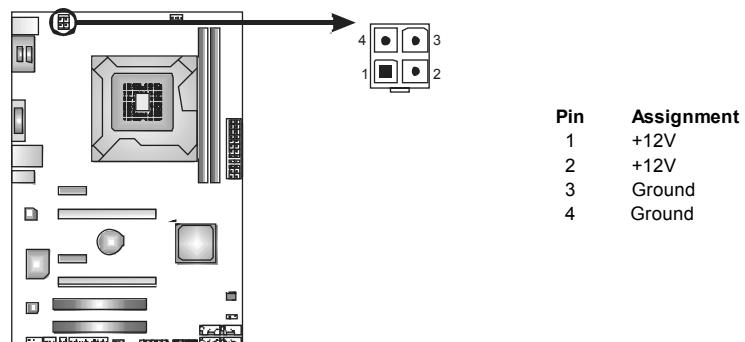
SATA1~SATA4: Serial ATA2 Connectors

The motherboard has a PCI to SATA Controller with 4 channels SATA2 interface, it satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



ATXPWR2: ATX Power Source Connector

This connector provides +12V to CPU power circuit.



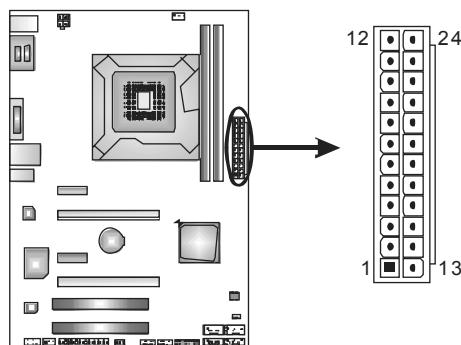
Note:

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

TH61A

ATXPWR1: ATX Power Source Connector

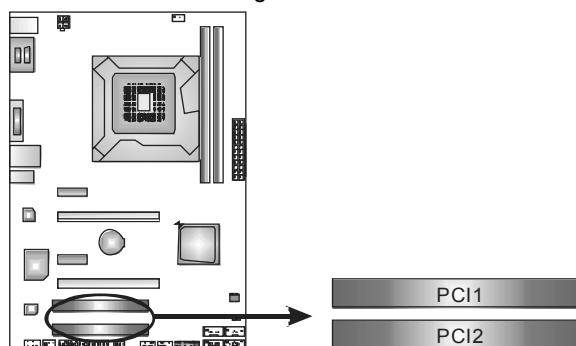
This connector allows user to connect 24-pin power connector on the ATX power supply.



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

PCI1/PCI2: Peripheral Component Interconnect Slot

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



Motherboard Manual

PEX16_1: PCI-Express Gen3 x16 Slot

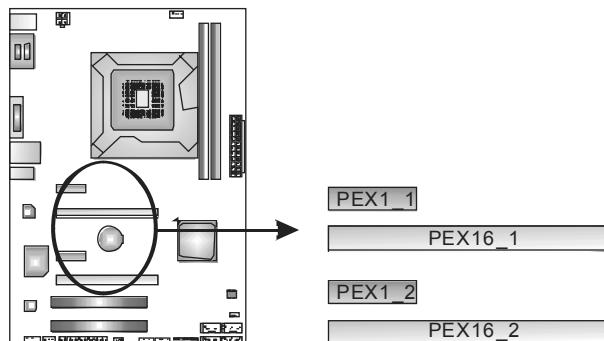
- PCI-Express 3.0 compliant.
- Maximum theoretical realized bandwidth of 16GB/s simultaneously per direction, for an aggregate of 32GB/s totally.
- PCI-E 3.0 is supported by Core i7-3xxx / i5-3xxx CPU.

PEX16_2: PCI-Express Gen2 x1 Slot

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 500MB/s simultaneously per direction, for an aggregate of 1GB/s totally.

PEX1_1/PEX1_2: PCI-Express Gen2 x1 Slots

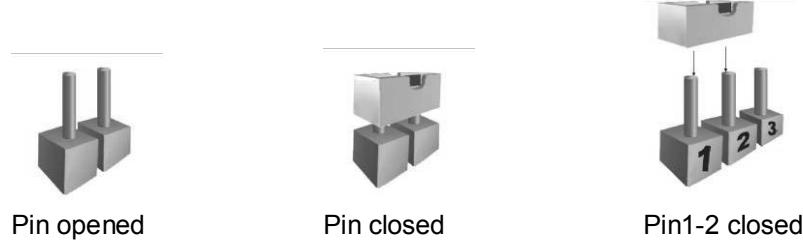
- PCI-Express 2.0 compliant.
- Data transfer bandwidth up to 500MB/s per direction; 1GB/s in total.
- PCI-Express supports a raw bit-rate of 2.5Gb/s on the data pins.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

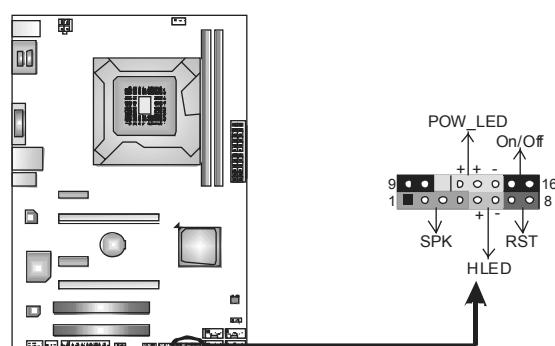
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

PANEL1: Front Panel Header

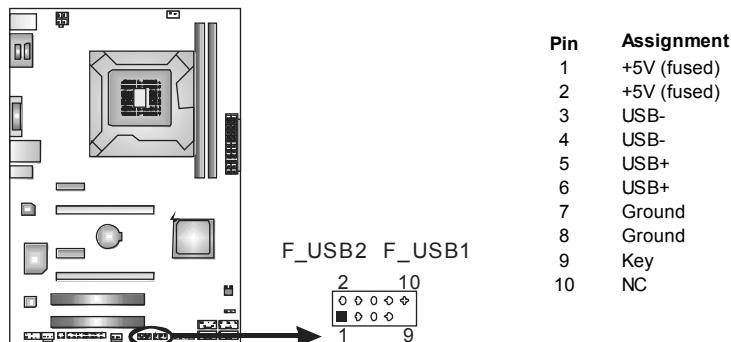
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



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

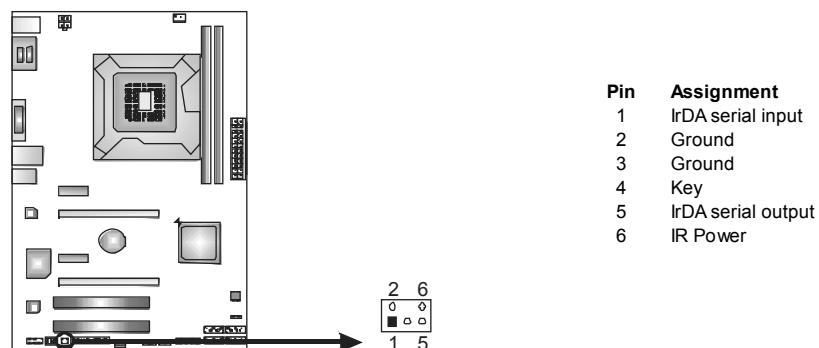
F_USB1/F_USB2: Headers for USB 2.0 Ports at Front Panel

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.



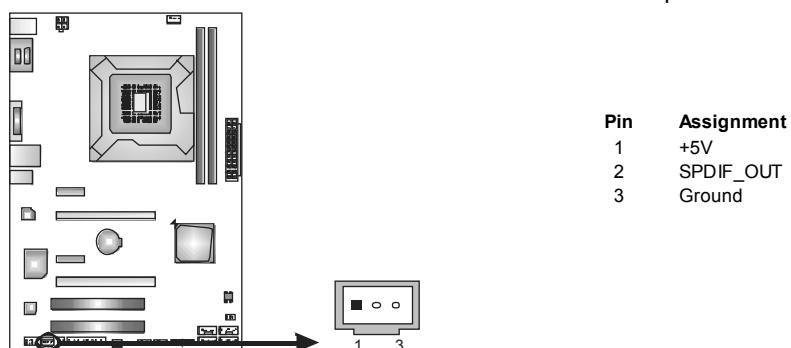
CIR1: Consumer IR Connector

This header is for infrared remote control and communication.



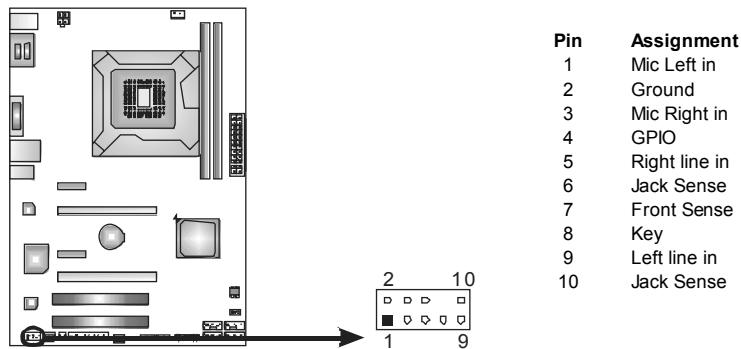
JSPDIFOUT1: Digital Audio-out Connector

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



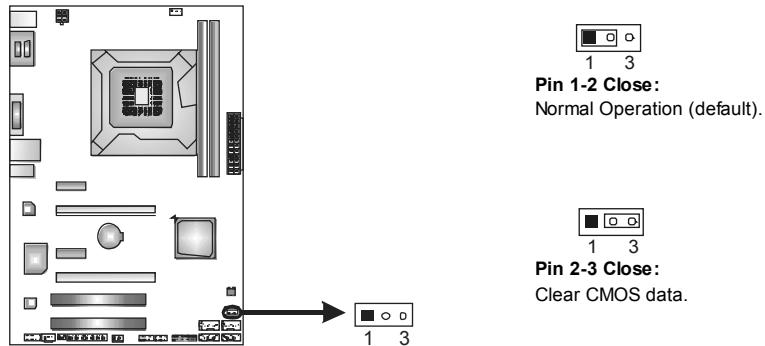
F_AUDIO1: Front Panel Audio Header

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



JCMOS1: Clear CMOS Header

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



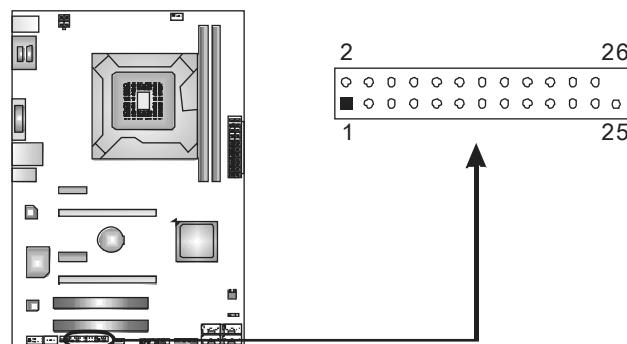
※ Clear CMOS Procedures:

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

Motherboard Manual

J_PRINT1: Printer Port Connector

This header allows you to connector printer on the PC.



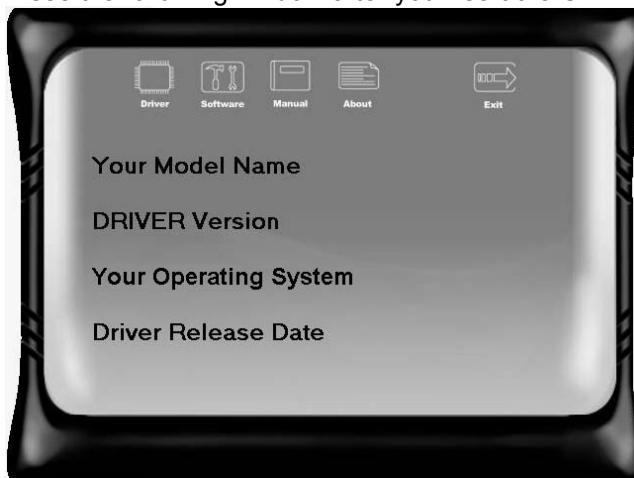
Pin	Assignment	Pin	Assignment
1	-Strobe	14	Ground
2	-ALF	15	Data 6
3	Data 0	16	Ground
4	-Error	17	Data 7
5	Data 1	18	Ground
6	-Init	19	-ACK
7	Data 2	20	Ground
8	-Scltin	21	Busy
9	Data 3	22	Ground
10	Ground	23	PE
11	Data 4	24	Ground
12	Ground	25	SCLT
13	Data 5	26	Key

CHAPTER 4: USEFUL HELP

4.1 DRIVER INSTALLATION NOTE

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

You will see the following window after you insert the CD



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

Note:

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

A. Driver Installation

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

B. Software Installation

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

C. Manual

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

Note:

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

4.2 SOFTWARE

Installing Software

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

Launching Software

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

eHot-Line (Optional)

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

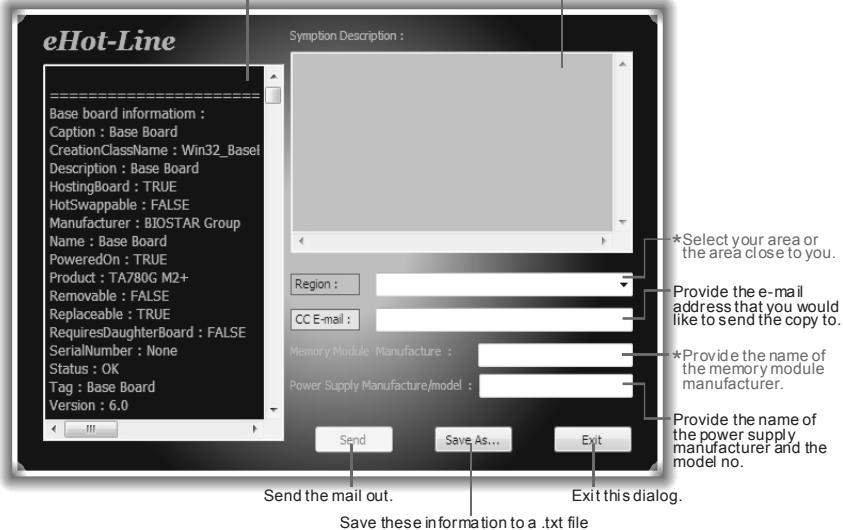


Before you use this utility, please set Outlook Express as your default e-mail client application program.

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

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

*Describe condition of your system.

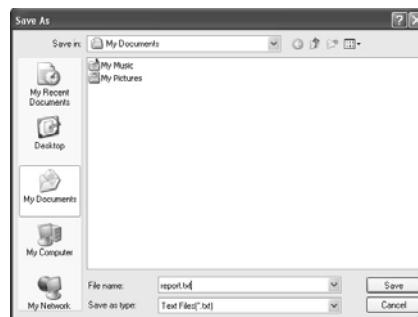


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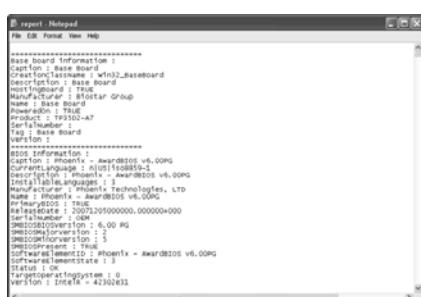


After filling up this information, click “**Send**” to send the mail out. A warning dialog would appear asking for your confirmation; click “**Send**” to confirm or “**Do Not Send**” to cancel.

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



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



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



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

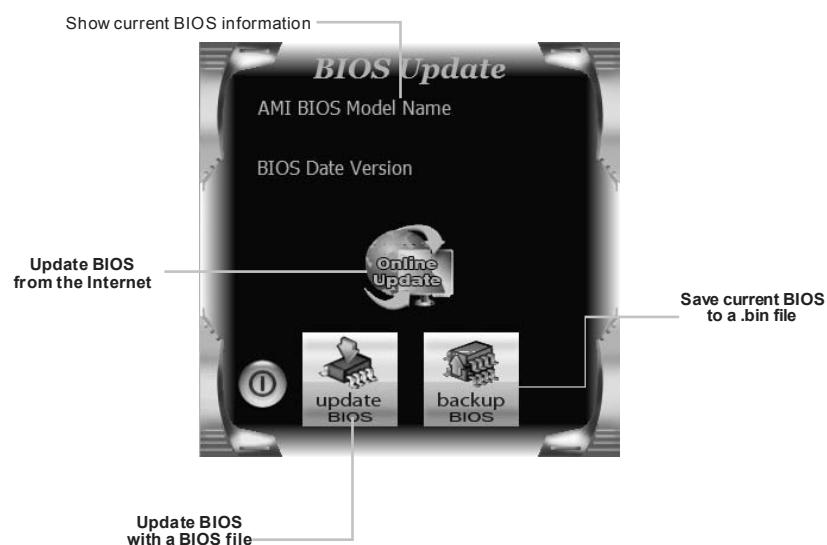


If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application. Go to the following web <http://www.biostar.com.tw/app/en-us/about/contact.php> for getting our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

Motherboard Manual

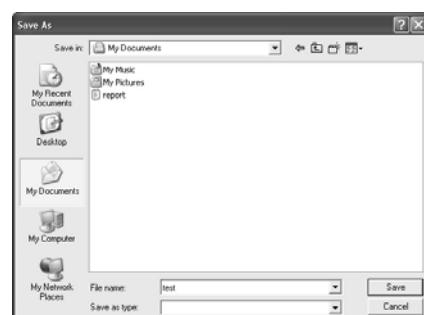
BIOS Update

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



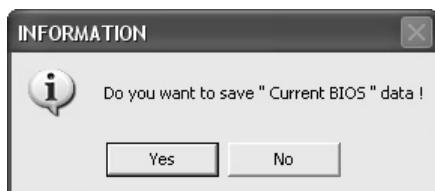
<Backup BIOS>

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



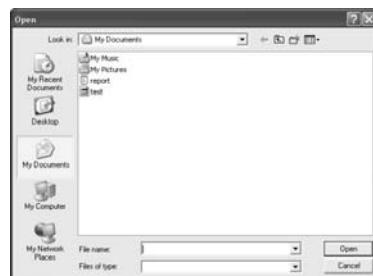
<Update BIOS>

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

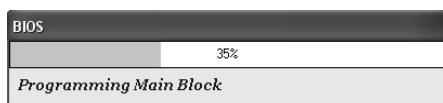


Then click Update BIOS button, a dialog will show for asking you backup current BIOS. Click **Yes** for BIOS backup and refer to the Backup BIOS procedure; or click **No** to skip this procedure.

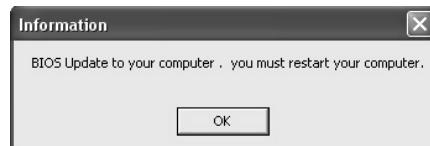
After the BIOS Backup procedure, the open dialog will show for requesting the BIOS file which is going to be updated. Please choose the proper BIOS file for updating, then click on **Open**.



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



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



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

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



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

4.3 EXTRA INFORMATION

CPU Overheated

If the system shuts down automatically after system is powered on for seconds, the phenomenon means the CPU protection function has been activated.

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

In this case, please double check:

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

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

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

Or you can:

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

4.4 AMI BIOS BEEP CODE

Boot Block Beep Codes

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

POST BIOS Beep Codes

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

Troubleshooting POST BIOS Beep Codes

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

4.5 TROUBLESHOOTING

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

TH61A

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Motherboard Manual**APPENDIX: SPEC IN OTHER LANGUAGES****GERMAN**

Spezifikationen		
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron Prozessoren	Unterstützt Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading
Chipsatz	Intel H61	
Super E/A	IT8728 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 / 1600 registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
SATA 2	Integrierter Serial ATA-Controller	Datentransferrate bis zu 3.0Gb/s Konform mit der SATA-Spezifikation Version 2.0
LAN	Realtek RTL8111E-VL-CG	10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/ Voll duplex-Funktion
HD Audio-Unter- stützung	VT1708B	Unterstützt High-Definition Audio 5.1-Kanal-Audioausgabe
Stekplätze	PCI-Steckplatz x2 PCI-E Gen3 x 16 @ x16 Steckplatz x1 PCI-E Gen2 x 16 @ x1 Steckplatz x1 PCI-E Gen2 x1-Steckplatz x2	(je nach CPU)
Onboard-Anschluss	SATA2-Anschluss x4 Fronttafelanschluss x1 Front-Audioanschluss x1	Jeder Anschluss unterstützt 1 SATA2-Laufwerk Unterstützt die Fronttafelfunktionen Unterstützt die Fronttafel-Audioanschlussfunktion

TH61A

Spezifikationen		
	CPU-Lüfter-Sockel	x1
	System-Lüfter-Sockel	x1
	"CMOS löschen"-Sockel	x1
	USB2.0-Anschluss	x2
	Verbraucher-IR Anschluss	x1
	S/PDIF Ausgangsanschluss	x1
	Druckeranschluss Anschluss	x1
	Stromanschluss (24-polig)	x1
	Stromanschluss (4-polig)	x1
Rückseiten-E /A	PS/2-Tastatur / Maus	x1
	VGA-Anschluss	x1
	DVI-D-Anschluss	x1
	Serieller Anschluss	x1
	LAN-Anschluss	x1
	USB2.0-Anschluss	x4
	Audioanschluss	x3
Platinengröße	210 mm (B) X 305 mm (L)	
OS-Unterstützung	Windows XP / Vista / 7	Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

Motherboard Manual

FRENCH

SPEC		
UC	Socket 1155 Processeurs Intel Core i7 / i5 / i3 / Pentium / Celeron	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	Intel H61	
Super E/S	IT8728 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 / 1600 Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
SATA 2	Contrôleur Serial ATA intégré	Taux de transfert jusqu'à 3.0Go/s. Conforme à la spécification SATA Version 2.0
LAN	Realtek RTL8111E-VL-CG	10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability
Prise en charge audio HD	VT1708B	Prise en charge de l'audio haute définition Sortie audio à 5.1 voies
Fentes	Fente PCI x2 Fente PCI-E Gen3 x 16 @ x16 x1 Fente PCI-E Gen2 x 16 @ x1 x1 Fente PCI-E Gen2 x1 x2	(en fonction du CPU)
Connecteur embarqué	Connecteur SATA2 x4 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1	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

TH61A

SPEC			
	Embase de ventilateur UC	x1	Alimentation électrique du ventilateur UC (avec fonction de ventilateur intelligent)
	Embase de ventilateur système	x1	Alimentation électrique du ventilateur système
	Embase d'effacement CMOS	x1	
	Connecteur USB2.0	x2	Chaque connecteur prend en charge 2 ports USB2.0 de panneau avant
	Connecteur de IR du consommateur	x1	
	Connecteur de sortie S/PDIF	x1	Prend en charge la fonction de sortie audio numérique
	Connecteur de Port d'imprimante	x1	Chaque connector prend en charge 1 Port d'imprimante
	Connecteur d'alimentation (24 broches)	x1	
	Connecteur d'alimentation (4 broches)	x1	
E/S du panneau arrière	Clavier / Souris PS/2	x1	
	Port VGA	x1	
	Port DVI-D	x1	
	Port série	x1	
	Port LAN	x1	
	Port USB2.0	x4	
	Fiche audio	x3	
Dimensions de la carte	210 mm (l) X 305 mm (H)		
Support SE	Windows XP / Vista / 7		Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis

Motherboard Manual

ITALIAN

SPECIFICA		
CPU	Socket 1155 Processore Intel Core i7 / i5 / i3 / Pentium / Celeron	Supporto di Execute Disable Bit / Enhanced Intel SpeedStep® / Architettura Intel 64 / Tecnologia Extended Memory 64 / Tecnologia Virtualization / Hyper Threading
Chipset	Intel H61	
Super I/O	IT8728 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 / 1600 DIMM registrati e DIMM ECC non sono supportati
SATA 2	Controller Serial ATA integrato	Velocità di trasferimento dei dati fino a 3.0Gb/s. Compatibile specifiche SATA Versione 2.0
LAN	Realtek RTL8111E-VL-CG	Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex
Supporto audio HD	VT1708B	Supporto audio High-Definition (HD) Uscita audio 5.1 canali
Alloggi	Alloggio PCI x2 Alloggio PCI-E Gen3 x16 @ x16 x1 Alloggio PCI-E Gen2 x16 @ x1 x1 Alloggio PCI-E Gen2 x1 x2	(a seconda del CPU)
Connettori su scheda	Connettore SATA2 x4 Connettore pannello frontale x1 Connettore audio frontale x1	Ciascun connettore supporta 1 unità SATA2 Supporta i servizi del pannello frontale Supporta la funzione audio pannello frontale

TH61A

SPECIFICA		
	Collettore ventolina CPU x1 Collettore ventolina sistema x1 Collettore cancellazione CMOS x1 Connettore USB2.0 x2 Connettore IR del consumatore x1 Connettore output S/PDIF x1 Connettore Porta stampante x1 Connettore alimentazione (24 pin) x1 Connettore alimentazione (4 pin) x1	Alimentazione ventolina CPU (con funzione Smart Fan) Alimentazione ventolina di sistema Ciascun connettore supporta 2 porte USB2.0 pannello frontale Supporta la funzione d'output audio digitale Ciascun connettore supporta 1 Porta stampante
I/O pannello posteriore	Tastiera / Mouse PS/2 x1 Porta VGA x1 Porta DVI-D x1 Porta Seriale x1 Porta LAN x1 Porta USB2.0 x4 Connettore audio x3	
Dimensioni scheda	210 mm (larghezza) x 305 mm (altezza)	
Sistemi operativi supportati	Windows XP / Vista / 7	Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

Motherboard Manual

SPANISH

Especificación			
CPU	Socket 1155 Procesador Intel Core i7 / i5 / i3 / Pentium / Celeron		Admite Bit de deshabilitación de ejecución / Intel SpeedStep® Mejorado / Intel Architecture-64 / Tecnología Extended Memory 64 / Tecnología de virtualización / Hyper Threading
Conjunto de chips	Intel H61		
Súper E/S	IT8728 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 / 1600 No admite DIMM registrados o DIMM compatibles con ECC
SATA 2	Controlador ATA Serie Integrado		Tasas de transferencia de hasta 3.0 Gb/s. Compatible con la versión SATA 2.0
Red Local	Realtek RTL8111E-VL-CG		Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex
Soporte de sonido HD	VT1708B		Soporte de sonido de Alta Definición Salida de sonido de 5.1 canales
Ranuras	Ranura PCI X2 Ranura PCI-E Gen3 x16 @ x16 X1 Ranura PCI-E Gen2 x16 @ x1 X1 Ranura PCI-E Gen2 x 1 X2		(dependiendo de la CPU)
Conectores en placa	Conector SATA2 X4 Conector de panel frontal X1 Conector de sonido frontal X1		Cada conector soporta 1 dispositivos SATA2 Soporta instalaciones en el panel frontal Soporta funciones de sonido en el panel frontal

TH61A

Especificación			
	Cabecera de ventilador de CPU	X1	Fuente de alimentación de ventilador de CPU (con función Smart Fan)
	Cabecera de ventilador de sistema	X1	Fuente de alimentación de ventilador de sistema
	Cabecera de borrado de CMOS	X1	
	Conector USB2.0	X2	Cada conector soporta 2 puertos USB2.0 frontales
	Conector de IR del consumidor	X1	
	Conector de salida S/PDIF	X1	Soporta función de salida de sonido digital
	Conector Puerto de impresora	X1	Cada conector soporta 1 Puerto de impresora
	Conector de alimentación (24 patillas)	X1	
	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Teclado / Ratón PS/2	X1	
	Puerto VGA	X1	
	Puerto DVI-D	X1	
	Puerto serie	X1	
	Puerto de red local	X1	
	Puerto USB2.0	X4	
	Conector de sonido	X3	
Tamaño de la placa	210 mm. (A) X 305 Mm. (H)		
Soporte de sistema operativo	Windows XP / Vista / 7		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

Motherboard Manual

PORTUGUESE

ESPECIFICAÇÕES			
CPU	Socket 1155 Processador Intel Core i7 / i5 / i3 / Pentium / Celeron		Superta as tecnologias Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Arquitecture -64 / Extended Memory 64 / Virtualization / Hyper Threading
Chipset	Intel H61		
Especificaçāo Super I/O	IT8728 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	Ranhuras 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 / 1600 Os módulos DIMM registados e os DIMM ECC não são suportados
SATA 2	Controlador Serial ATA integrado		Velocidades de transmissão de dados até 3.0 Gb/s. Compatibilidade com a especificação SATA versão 2.0
LAN	Realtek RTL8111E-VL-CG		Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex
Suporte para áudio de alta definição	VT1708B		Suporta a especificação High-Definition Audio Saída de áudio de 5.1 canais
Ranhuras	Ranhura PCI	x2	
	Ranhura PCI-E Gen3 x16 @ x16	x1	(dependendo da CPU)
	Ranhura PCI-E Gen2 x16 @ x1	x1	
	Ranhura PCI-E Gen2 x 1	x2	
Conectores na placa	Conector SATA2	x4	Cada conector suporta 1 dispositivo SATA2
	Conector do painel frontal	x1	Para suporte de várias funções no painel frontal
	Conector de áudio frontal	x1	Suporta a função de áudio no painel frontal

TH61A

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

Motherboard Manual

POLISH

SPEC			
Procesor	Socket 1155 Procesor Intel Core i7 / i5 / i3 / Pentium / Celeron	Obsługa Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading	
Chipset	Intel H61		
Pamięć główna	Gniazda DDR3 DIMM x 2 Maks. wielkość pamięci 16GB Każe gniazdo DIMM obsługuje moduły 512MB/1GB/2GB/4GB/8GB DDR3	Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 1066 / 1333 / 1600 Brak obsługi Registered DIMM oraz ECC DIMM	
Super I/O	IT8728 Zapewnia najbardziej powszechnie 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	Zintegrowany kontroler Serial ATA	Transfer danych do 3.0 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0	
LAN	Realtek RTL8111E-VL-CG	10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego dupleksu	
Obsługa audio HD	VT1708B	Obsługa High-Definition Audio 5.1 kanałowe wyjście audio	
Gniazda	Gniazdo PCI x2 Gniazdo PCI-E Gen3 x16 @ x16 x1 Gniazdo PCI-E Gen2 x16 @ x1 x1 Gniazdo PCI-E Gen2 x 1 x2	(w zależności od procesora)	
Złącza wbudowane	Złącze SATA2 x4 Złącze panela przedniego x1 Przednie złącze audio x1	Każde złącze obsługuje 1 urządzenie SATA2 Obsługa elementów panela przedniego Obsługa funkcji audio na panelu przednim	

TH61A

SPEC			
	Złącze główkowe wentylatora procesora x1	Zasilanie wentylatora procesora (z funkcją Smart Fan)	
	Złącze główkowe wentylatora systemowego x1	Zasilanie wentylatora systemowego	
	Złącze główkowe kasowania CMOS x1		
	Złącze USB2.0 x2	Każde złącze obsługuje 2 porty USB2.0 na panelu przednim	
	Złącze Konsument IR x1		
	Złącze wyjścia S/PDIF x1	Obsługa funkcji cyfrowego wyjścia audio	
	Złącze Port drukarki x1	Każde złącze obsługuje 1 Port drukarki	
	Złącze zasilania (24 pinowe) x1		
	Złącze zasilania (4 pinowe) x1		
Back Panel I/O	Klawiatura / Mysz PS/2 x1		
	Port VGA x1		
	Port DVI-D x1		
	Port Szeregowy x1		
	Port LAN x1		
	Port USB2.0 x4		
	Gniazdo audio x3		
Wymiary płyty	210 mm (S) X 305 mm (W)		
Obsługa systemu operacyjnego	Windows XP / Vista / 7	BioStar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.	

Motherboard Manual

RUSSIAN

СПЕЦ		
CPU (центральн ый процессор)	Socket 1155 Процессор Intel Core i7 / i5 / i3 / Pentium / Celeron	Поддержка технологий Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / технологии виртуализации / Hyper Threading
Набор микросхем	Intel H61	
Основная память	Слоты DDR3 DIMM x 2 Максимальная ёмкость памяти 16 ГБ Каждый модуль DIMM поддерживает 512МБ/1ГБ/2ГБ/4ГБ/8ГБ DDR3	Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 1066 / 1333 / 1600 Не поддерживает зарегистрированные модули DIMM and ECC DIMM
Super I/O	IT8728 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	Встроенное последовательное устройство управления ATA	скорость передачи данных до 3.0 гигабит/с. Соответствие спецификации SATA версия 2.0
Локальная сеть	Realtek RTL8111E-VL-CG	Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность
Звуковая поддержка жесткого диска	VT1708B	Звуковая поддержка High-Definition 5.1канальный звуковой выход
Слоты	Слот PCI x2 Слот PCI-E Gen3 x16 @ x16 x1 Слот PCI-E Gen2 x16 @ x1 x1 Слот PCI-E Gen2 x 1 x2	(в зависимости от процессора)
Встроенный разъём	Разъём SATA2 x4 Разъём на лицевой панели x1 Входной звуковой разъём x1	Каждый разъём поддерживает 1 устройство SATA2 Поддержка устройств на лицевой панели Поддержка звуковых функций на лицевой панели

TH61A

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

Motherboard Manual

ARABIC

المواصفات		
دعم بقابط Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading	المعالج Intel Core i7 / i5 / i3 / Pentium / Celeron	وحدة المعالجة المركزية Socket 1155 تردد يصل إلى
		مجموعة الشرائح Intel H61
عدد قنوات DDR3 DIMM 2 سعة ذاكرة قصوى 16 جيجا بليت ميغا بليت و 1/512 سعة DDR3 ميغا بليت و 8/4 و 8 جيجا بليت	DDR3 ذاكرة 1066 / 1333 / 1600 ميغا بليت وذلك الذي لا تتوافق مع DDR3 DIMM	وحدة ذاكرة DDR3 ذات الذاكرة من نوع ECC الذاكرة الرئيسية
وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة من "Smart Guardian" وظيفة ITE	IT8728	Super I/O اللائحة لـ Super I/O توفر وظيفة Low Pin Count Interface
جيجلات/ثانية 3.0، نقل البيانات بسرعة تصل إلى 2.0 الإصدار SATA مطابقة لمواصفات SATA 2.0	منفذ Serial ATA تحكم	SATA 2
تضاريب ثلاثي 10/100 ميغا بليت / ثانية و 1 جيجا بليت / ثانية إمكانية الفتح المزدوج الكامل/النصفي	Realtek RTL8111E-VL-CG	شبكة داخلية
تدعم تقنية الصوت عالي التعرف من 5.1 قوlets خرج الصوت	VT1708B	دعم الصوت عالي التعرف
(المركزية المعالجة وحدة على اعتماد) عدد 2 PCI	PCI-E Gen3 x16 @ x16 PCI-E Gen2 x16 @ x16 PCI-E Gen2 x1	العدادات
يدعم كل منفذ واحد من أجهزة SATA2 يدعم تجهيزات اللوحة الأممية	منفذ SATA2 عدد 4 منفذ اللوحة الأممية عدد 1	المنفذ على سطح اللوحة

TH61A

الموافقات		
يدعم وظيفة الصوت باللوحة الأممية لتوصيل الطاقة لمروحة وحدة المعالجة مع وظيفة Smart Fan	عدد 1 عدد 1	منفذ الصوت الأمامي وصلة مروحة وحدة المعالجة المركزية
لتوصيل الطاقة لمروحة النظام	عدد 1	وصلة مروحة النظام
يدعم كل منفذ قحتي USB2.0 باللوحة الأممية	عدد 2 عدد 1	وصلة ممسح CMOS منفذ USB2.0 منفذ الأحمر تحت مستهلكة
يدعم وظيفة خرج الصوت الرقمي	عدد 1 عدد 1	منفذ خرج S/PDIF منفذ طابعة
	عدد 1	منفذ توصيل الطاقة (24 دبليوس)
	عدد 1	منفذ توصيل الطاقة (4 دبليوس)
	عدد 1	لوحة مفاتيح / ملوس PS/2
	منفذ VGA	
	منفذ DVI-D	
	منفذ دخل/خرج متسلسلي	منفذ دخل/خرج متسلسلي لوحة الخففية
	منفذ شبكة اتصال محلية	
	منفذ USB2.0	
	مقاييس صوت	
	حجم اللوحة 210 مم (عرض) X 305 مم (ارتفاع)	
بحقها في إضافة أو إزالة الدعم لأي نظام شغيل يخطر لو Biostar يحتظر بيون إخطار.	Windows XP / Vista / 7	دعم أنظمة التشغيل

Motherboard Manual

JAPANESE

仕様			
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron プロセッサ	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	Intel H61		
メインメモリ	DDR3 DIMMスロット x 2 最大メモリ容量16GB 各DIMMは 512MB/1GB/2GB/4GB/8GB DDR3 をサポート	デュアル チャンネルモードDDR3 メモリモジュール DDR3 1066 / 1333 / 1600 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	IT8728 もつとも一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス	環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能	
SATA 2	統合シリアルATA コントローラ	最高3.0 Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠	
LAN	Realtek RTL8111E-VL-CG	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	VT1708B ハイデフィニションオーディオのサポート 5.1 チャンネルオーディオアウト		
スロット	PCIスロット x2 PCI-E Gen3 x16 @ x16スロット x1 PCI-E Gen2 x16 @ x1スロット x1 PCI-E Gen2 x 1スロット x2	(CPUに依存)	
オンボードコネクタ	SATA2コネクタ x4 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	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)	

TH61A

仕様			
	システムファンヘッダ CMOSクリアヘッダ USB2.0コネクタ 消費者IRコネクタ S/PDIFアウトコネクタ プリンタポートコネクタ 電源コネクタ(24ピン) 電源コネクタ(4ピン)	x1 x1 x2 x1 x1 x1 x1 x1	システムファン電源装置 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 デジタルオーディオアウト機能をサポートします 各コネクタは1つのプリンタポートをサポートします
背面パネル I/O	PS/2キーボード / マウス VGAポート DVI-Dポート シリアルポート LANポート USB2.0ポート オーディオジャック	x1 x1 x1 x1 x1 x4 x3	
ボードサイズ	210 mm (幅) X 305 mm (高さ)		
OSサポート	Windows XP / Vista / 7		Biostarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。

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