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Dichiarazione di conformità sintetica

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

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

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

quando ad esso applicabili

Short Declaration of conformity

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

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

whenever these laws may be applied

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	16
4.1 Driver Installation Note	16
4.2 Software	17
4.3 Extra Information	21
4.4 AMI BIOS Beep Code	22
4.5 Troubleshooting	23
Appendix: SPEC In Other Languages	24
German	24
French	26
Italian	28
Spanish	30
Portuguese	32
Polish	34
Russian	36
Arabic	38
Japanese	40

CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

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

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

1.2 PACKAGE CHECKLIST

- ✚ Serial ATA Cable x2
- ✚ Rear I/O Panel for ATX Case x1
- ✚ Installation Guide x1
- ✚ Fully Setup Driver DVD x1

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

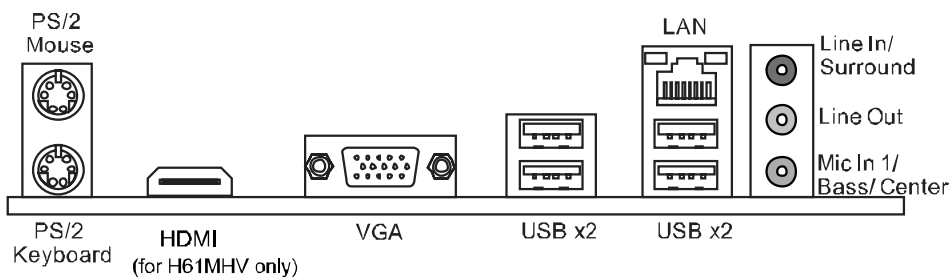
1.3 MOTHERBOARD FEATURES

SPEC		
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron processor	Supports Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading
Chipset	Intel H61	
Super I/O	IT8772E Provides the most commonly used legacy Super I/O functionality Low Pin Count Interface	Environment Control initiatives Hardware Monitor Controller Fan Speed Controller ITE's "Smart Guardian" function
Main Memory	DDR3 DIMM Slots x 2 Max Memory Capacity 16GB Each DIMM supports 512MB/ 1GB/2GB/4GB/8GB DDR3	Dual Channel Mode DDR3 memory module Supports DDR3 1066 / 1333 Supports DDR3 1600 (depending on CPU) Registered DIMM and ECC DIMM is not supported
SATA 2	Integrated Serial ATA Controller	Data transfer rates up to 3.0 Gb/s SATA Version 2.0 specification compliant
LAN	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)	10 / 100 / 1000Mb/s auto negotiation 10 / 100 Mb/s auto negotiation
Sound Codec	ALC662	5.1 channels audio out High Definition Audio
Slots	PCI-E Gen3x16 slot x1 (depending on CPU) PCI-E Gen2 x1 slot x1	Supports PCI-E Gen2/3 x16 expansion card Supports PCI-E Gen2 x1 expansion card
On Board Connectors	SATA2 Connector x4 Front Panel Connector x1 Front Audio Connector x1 CPU Fan Header x1 System Fan Header x1 Clear CMOS Header x1	Each connector supports 1 SATA2 device Supports front panel facilities Supports front panel audio function CPU Fan power supply (with Smart Fan function) System Fan Power supply Restore CMOS data to factory default

H61MHV/H61MGV/H61MLC2

SPEC			
	USB2.0 Connector	x2	Each connector supports 2 front panel USB2.0 ports
	Serial Port Connector	x1	Connects to RS-232 Port
	Power Connector (24pin)	x1	Connects to Power supply
	Power Connector (4pin)	x1	Connects to Power supply
Rear Panel I/O	PS/2 Keyboard	x1	Connects to PS/2 Keyboard
	PS/2 Mouse	x1	Connects to PS/2 Mouse
	HDMI Port (H61MHV)	x1	Connects to HDMI Display
	VGA Port	x1	Connect to D-SUB monitor
	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	170 (W) x 226 (L) mm		
OS Support	Windows XP / Vista / 7		Biostar reserves the right to add or remove support for any OS with or without notice

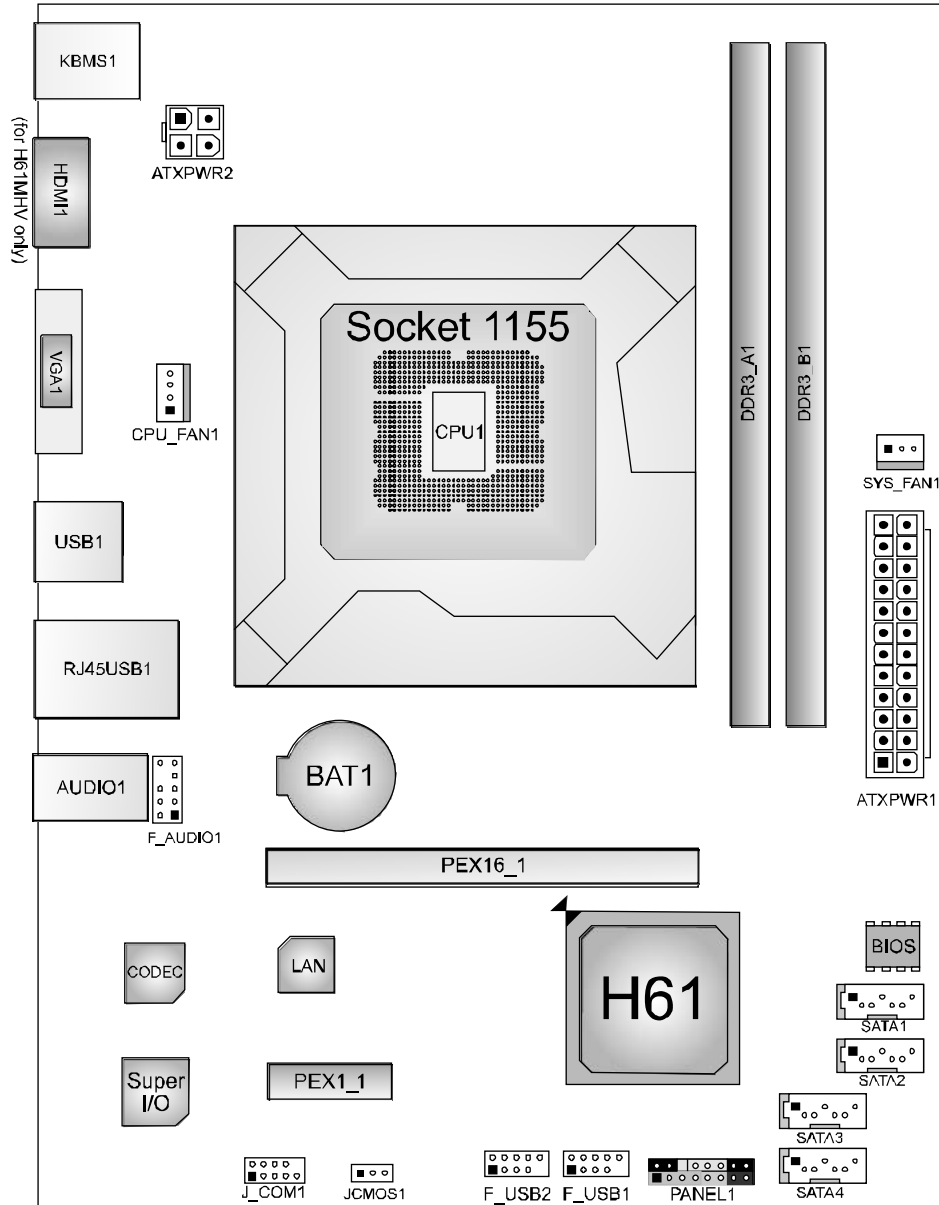
1.4 REAR PANEL CONNECTORS



NOTE:

- HDMI/ VGA Output require an Intel Core family processor with Intel Graphics Technology.
- Maximum resolution:
VGA: 2048 x 1536 @75Hz
HDMI: 1920 x 1200 @60Hz (for H61MHV only)
- The H61MHV supports dual video outputs, but the HDMI is not supported under DOS and BIOS setup.

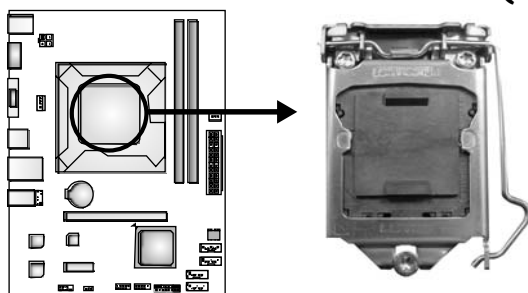
1.5 MOTHERBOARD LAYOUT



NOTE: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

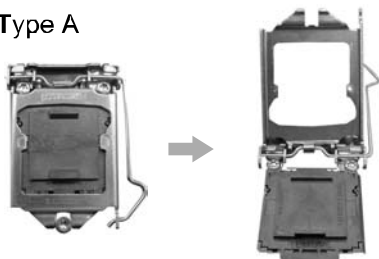


Notice:

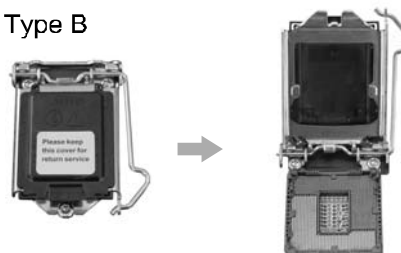
1. Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.
2. The motherboard might equip with two different types of pin cap. Please refer below instruction to remove the pin cap.

Step 1: Pull the socket locking lever out from the socket then raise the lever and load plate to the fully open position.

Type A

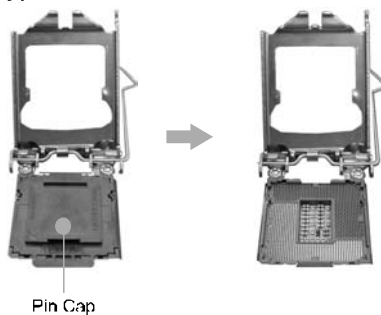


Type B

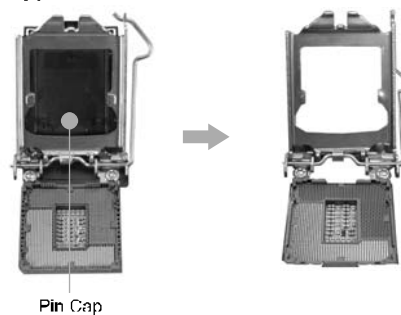


Step 2: Remove the Pin Cap.

Type A



Type B



Motherboard Manual

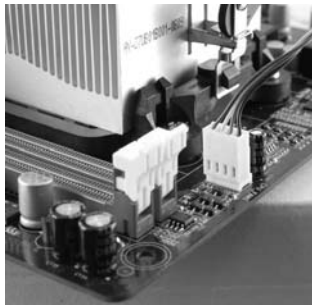
Step 3: Hold processor with your thumb and index fingers, oriented as shown. Align the notches with the socket. Lower the processor straight down without tilting or sliding the processor in the socket.



Step 4: Close the load plate. Pressing down on the load plate, close and engage the socket lever.



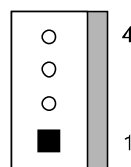
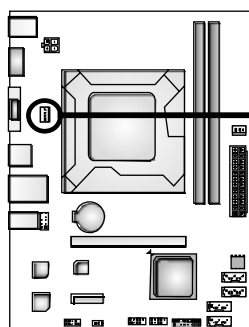
Step 5: Put the CPU Fan and heatsink assembly on the CPU and buckle it on the retention frame. Connect the CPU FAN power cable into the CPU_FAN1 to complete the installation.



2.2 FAN HEADERS

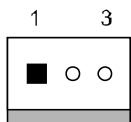
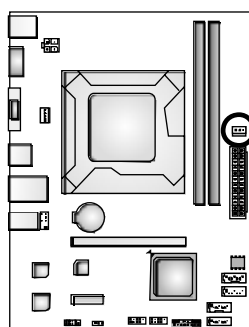
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU_FAN1: CPU Fan Header



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

SYS_FAN1: System Fan Header



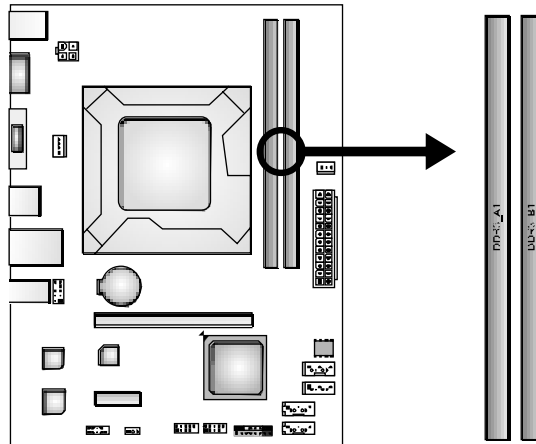
Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

Note:

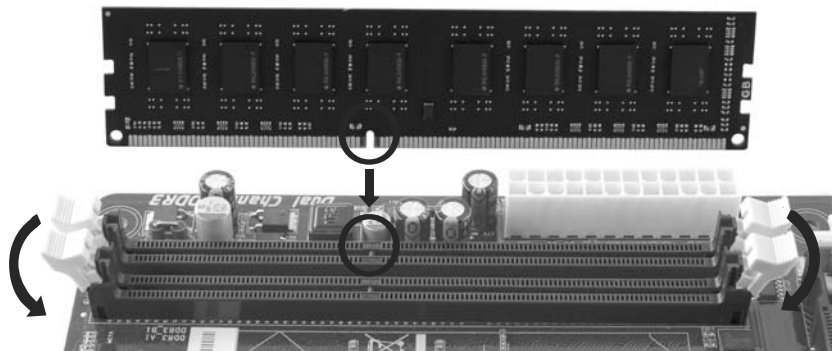
The SYS_FAN1 support 3-pin head connectors; the CPU_FAN1 supports 4-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

A. Memory Modules

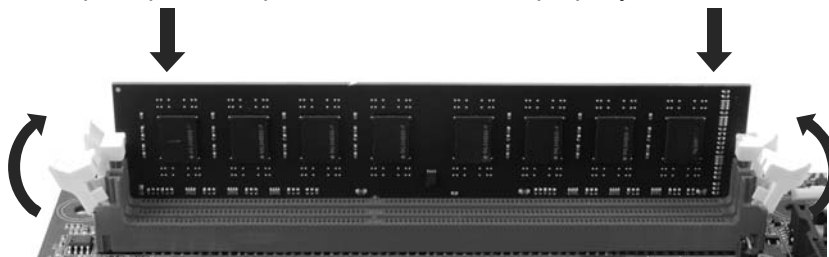


1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the



H61MHV/H61MGV/H61MLC2

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



Note:

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

B. Memory Capacity

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

C. Dual Channel Memory Installation

Please refer to the following requirements to activate Dual Channel function: Install memory module of the same density in pairs, shown in the table.

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

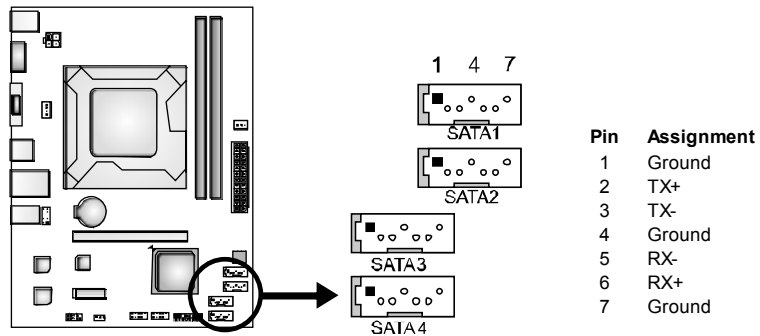
(O means memory installed; X, not installed.)

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

2.4 CONNECTORS AND SLOTS

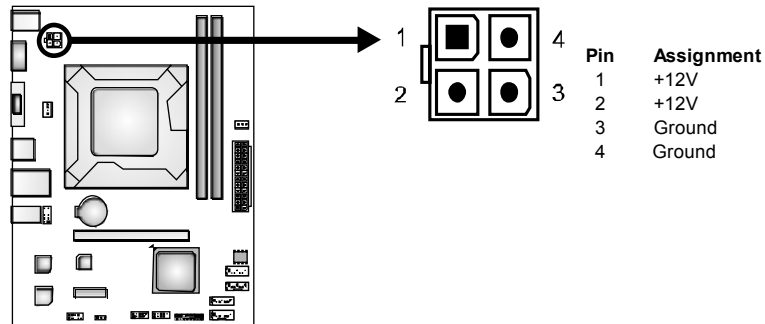
SATA1~SATA4: Serial ATA Connectors

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.



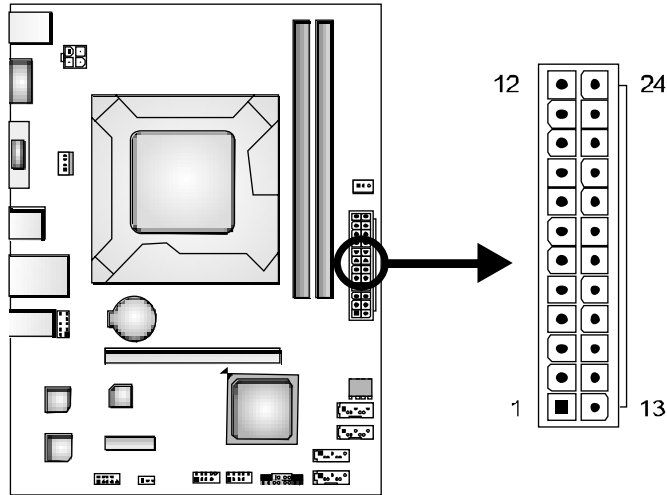
ATXPWR2: ATX Power Source Connector

This connector provides +12V to CPU power circuit.



ATXPWR1: ATX Power Source Connector

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



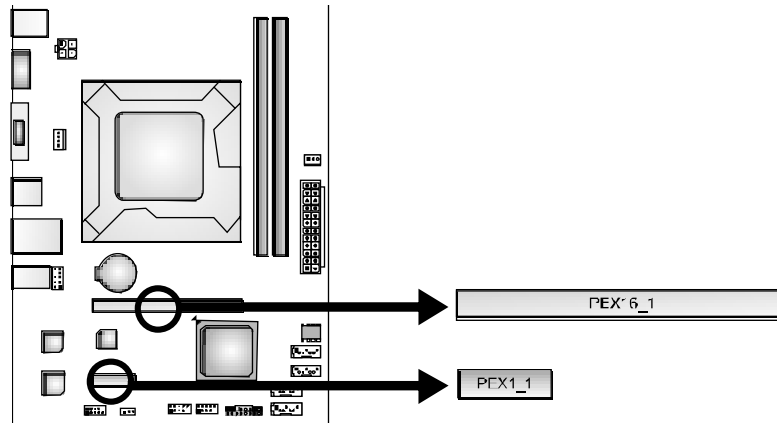
Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

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.

PEX1_1: PCI-Express Gen2 x1 Slot

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



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

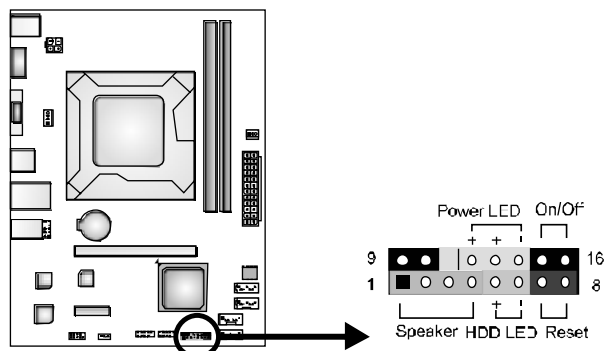
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

PANEL1: Front Panel Header

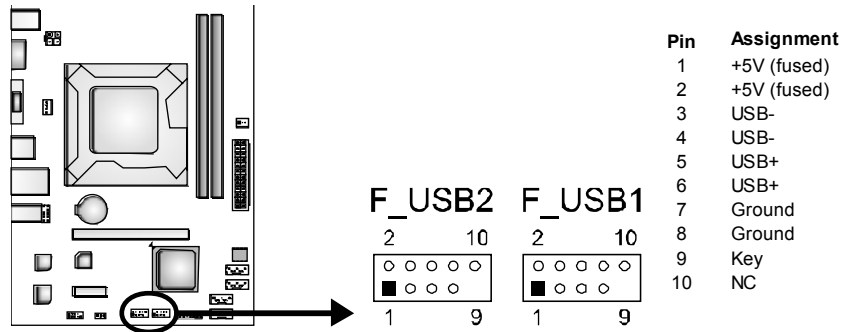
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



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	

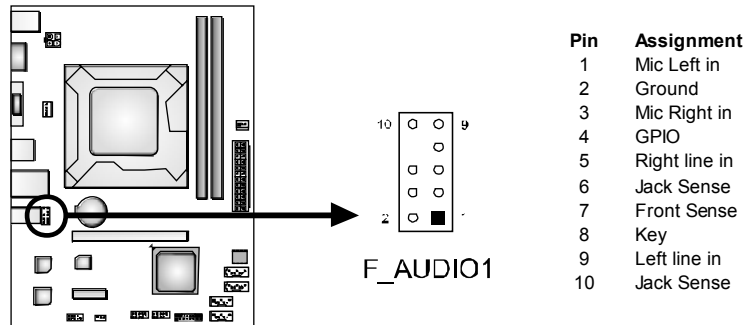
F_USB1/F_USB2: Headers for USB 2.0 Ports at Front Panel

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.



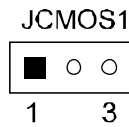
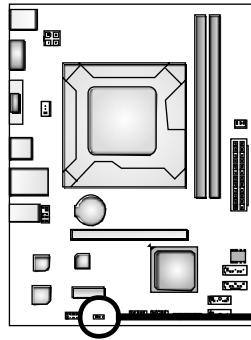
F_AUDIO1: Front Panel Audio Header

This header allows user to connect the front audio output cable with the PC front panel.



JCMOS1: Clear CMOS Header

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



Pin 1-2 Close:
Normal Operation (default).



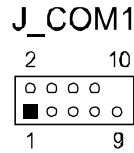
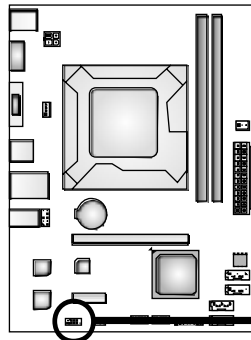
Pin 2-3 Close:
Clear CMOS data.

※ Clear CMOS Procedures:

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

J_COM1: Serial Port Connector

The motherboard has a Serial Port Connector for connecting RS-232 Port.



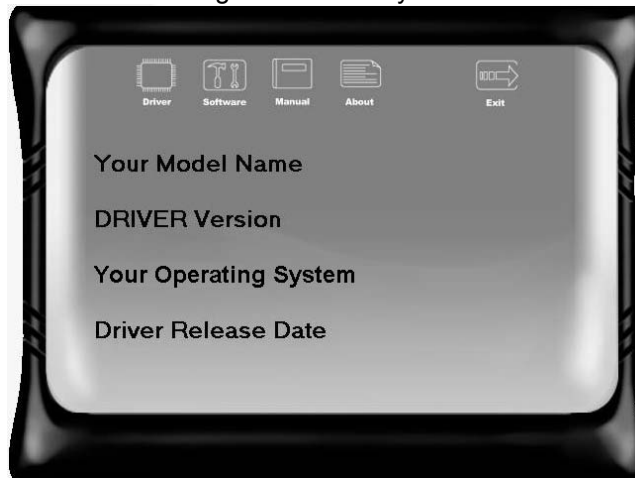
Pin	Assignment
1	Carrier detect
2	Received data
3	Transmitted data
4	Data terminal ready
5	Signal ground
6	Data set ready
7	Request to send
8	Clear to send
9	Ring indicator
10	NC

CHAPTER 4: USEFUL HELP

4.1 DRIVER INSTALLATION NOTE

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

You will see the following window after you insert the DVD



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

Note:

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

A. Driver Installation

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

B. Software Installation

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

C. Manual

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

Note:

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

4.2 SOFTWARE

Installing Software

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

Launching Software

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

eHot-Line (Optional)

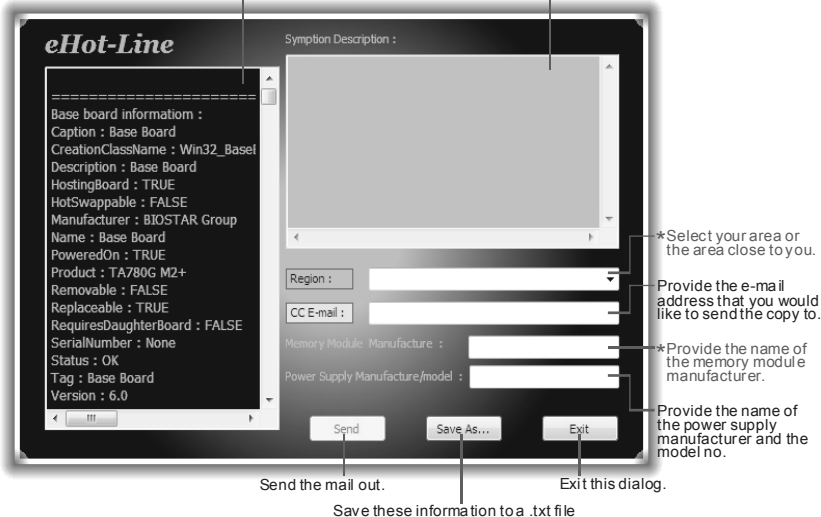
eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.

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

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

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

*Describe condition of your system.



Annotations for the eHot-Line utility interface:

- Region :** *Select your area or the area close to you.
- CC E-mail :** Provide the e-mail address that you would like to send the copy to.
- Memory Module Manufacture :** *Provide the name of the memory module manufacturer.
- Power Supply Manufacture/model :** Provide the name of the power supply manufacturer and the model no.
- Send :** Send the mail out.
- Save As... :** Save these information to a .txt file
- Exit :** Exit this dialog.

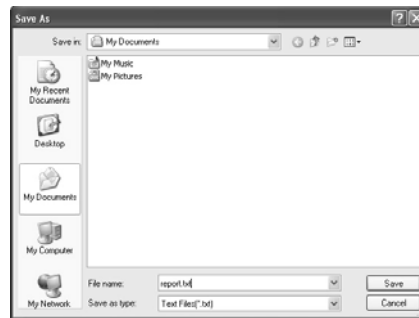
Motherboard Manual

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.



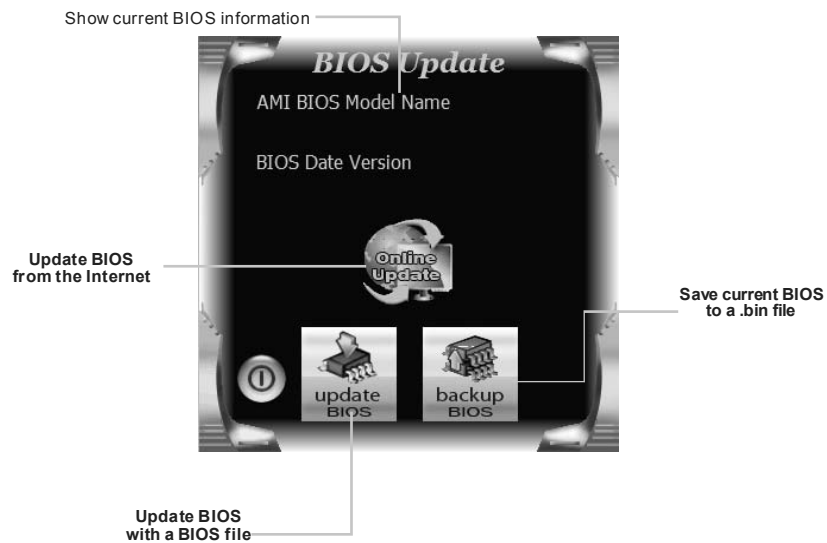
We will not share customer’s data with any other third parties, so please feel free to provide your system information while using eHot-Line service.



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/about/contact.php> for getting our contact information.

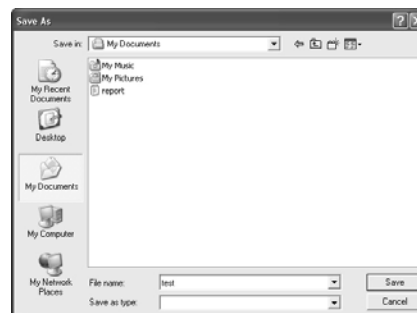
BIOS Update

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



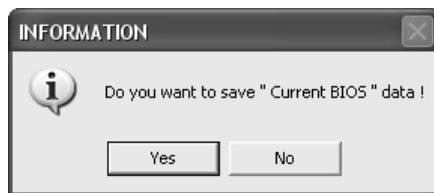
<Backup BIOS>

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



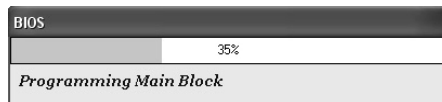
<Update BIOS>

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



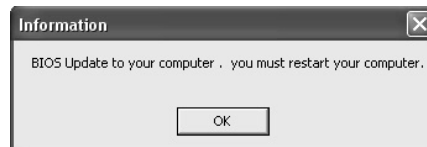
Then click Update BIOS button, a dialog will show for asking you backup current BIOS. Click **Yes** for BIOS backup and refer to the Backup BIOS procedure; or click **No** to skip this procedure.


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



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

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



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

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



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

4.3 EXTRA INFORMATION

CPU Overheated

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

4.5 TROUBLESHOOTING

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

APPENDIX: SPEC IN OTHER LANGUAGES**GERMAN**

<i>Spezifikationen</i>			
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron Prozessoren		Unterstützt Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading
Chipsatz	Intel H61		
Super E/A	IT8772E 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	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)		10 / 100 / 1000Mb/s Auto-Negotiation 10 / 100 Mb/s Auto-Negotiation
HD Audio-Unterstützung	ALC662		Unterstützt High-Definition Audio 5.1-Kanal-Audioausgabe
Steckplätze	PCI-E Gen3 x 16 Steckplatz x1 PCI-E Gen2 x1-Steckplatz x1		(je nach CPU)
Onboard-Anschluss	SATA2-Anschluss x4 Fronttafelanschluss x1 Front-Audioanschluss x1 CPU-Lüfter-Sockel x1		Jeder Anschluss unterstützt 1 SATA2-Laufwerk Unterstützt die Fronttafel-funktionen Unterstützt die Fronttafel-Audioanschlussfunktion CPU-Lüfterstromversorgungsanschluss (mit Smart Fan-Funktion)

H61MHV/H61MGV/H61MLC2

Spezifikationen			
	System-Lüfter-Sockel	x1	System-Lüfter-Stromversorgungsanschluss
	"CMOS löschen"-Sockel	x1	
	USB2.0-Anschluss	x2	Jeder Anschluss unterstützt 2 Fronttafel-USB2.0-Anschlüsse
	Serieller Anschluss	x1	
	Stromanschluss (24-polig)	x1	
	Stromanschluss (4-polig)	x1	
Rückseiten-E /A	PS/2-Tastatur	x1	
	PS/2-Maus	x1	
	HDMI-Anschluss (H61MHV)	x1	
	VGA-Anschluss	x1	
	LAN-Anschluss	x1	
	USB2.0-Anschluss	x4	
	Audioanschluss	x3	
Platinengröße	170 mm (B) X 226 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.

FRENCH

<i>SPEC</i>		
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	IT8772E 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	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)	10 / 100 / 1000 Mb/s négociation automatique 10 / 100 Mb/s négociation automatique
Prise en charge audio HD	ALC662	Prise en charge de l'audio haute définition Sortie audio à 5.1 voies
Fentes	Fente PCI-E Gen3 x 16 x1 Fente PCI-E Gen2 x1 x1	(en fonction du CPU)
Connecteur embarqué	Connecteur SATA2 x4 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Embase de ventilateur UC 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 Alimentation électrique du ventilateur UC (avec fonction de ventilateur intelligent)

H61MHV/H61MGV/H61MLC2

<i>SPEC</i>			
	Embase de ventilateur système	x1	Alimentation électrique du ventilateur système Chaque connecteur prend en charge 2 ports USB2.0 de panneau avant
	Embase d'effacement CMOS	x1	
	Connecteur USB2.0	x2	
	Port série	x1	
	Connecteur d'alimentation (24 broches)	x1	
	Connecteur d'alimentation (4 broches)	x1	
E/S du panneau arrière	Clavier PS/2	x1	
	Souris PS/2	x1	
	Port HDMI (H61MHV)	x1	
	Port VGA	x1	
	Port LAN	x1	
	Port USB2.0	x4	
	Fiche audio	x3	
Dimensions de la carte	170 mm (l) X 226 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

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	IT8772E 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	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)	Negoziante automatica 10 / 100 / 1000 Mb/s Negoziante automatica 10 / 100 Mb/s
Supporto audio HD	ALC662	Supporto audio High-Definition (HD) Uscita audio 5.1 canali
Alloggi	Alloggio PCI-E Gen3 x16 x1 Alloggio PCI Express Gen2 x1 x1	(a seconda del CPU)
Connettori su scheda	Connettore SATA2 x4 Connettore pannello frontale x1 Connettore audio frontale x1 Collettore ventolina CPU x1 Collettore ventolina sistema x1	Ciascun connettore supporta 1 unità SATA2 Supporta i servizi del pannello frontale Supporta la funzione audio pannello frontale Alimentazione ventolina CPU (con funzione Smart Fan) Alimentazione ventolina di sistema

H61MHV/H61MGV/H61MLC2

SPECIFICA		
	Collettore cancellazione CMOS x1	
	Connettore USB2.0 x2	Ciascun connettore supporta 2 porte USB2.0 pannello frontale
	Porta seriale x1	
	Connettore alimentazione (24 pin) x1	
	Connettore alimentazione (4 pin) x1	
I/O pannello posteriore	Tastiera PS/2 x1	
	Mouse PS/2 x1	
	Porta HDMI (H61MHV) x1	
	Porta VGA x1	
	Porta LAN x1	
	Porta USB2.0 x4	
	Connettore audio x3	
Dimensioni scheda	170 mm (larghezza) x 226 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.

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	IT8772E 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	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)	Negociación de 10 / 100 / 1000 Mb/s Negociación de 10 / 100 Mb/s
Soporte de sonido HD	ALC662	Soporte de sonido de Alta Definición Salida de sonido de 5.1 canales
Ranuras	Ranura PCI-E Gen3 x16 X1 Ranura PCI-E Gen2 x 1 X1	(dependiendo de la CPU)
Conectores en placa	Conector SATA2 X4 Conector de panel frontal X1 Conector de sonido frontal X1 Cabecera de ventilador de CPU X1 Cabecera de ventilador de sistema X1	Cada conector soporta 1 dispositivos SATA2 Soporta instalaciones en el panel frontal Soporta funciones de sonido en el panel frontal Fuente de alimentación de ventilador de CPU (con función Smart Fan) Fuente de alimentación de ventilador de sistema

H61MHV/H61MGV/H61MLC2

Especificación			
	Cabecera de borrado de CMOS	X1	
	Conector USB2.0	X2	Cada conector soporta 2 puertos USB2.0 frontales
	Puerto serie	X1	
	Conector de alimentación (24 patillas)	X1	
	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Teclado PS/2	X1	
	Ratón PS/2	X1	
	Ratón HDMI (H61MHV)	X1	
	Puerto VGA	X1	
	Puerto de red local	X1	
	Puerto USB2.0	X4	
	Conector de sonido	X3	
Tamaño de la placa	170 mm. (A) X 226 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.

PORTUGUESE

ESPECIFICAÇÕES			
CPU	Socket 1155 Processador Intel Core i7 / i5 / i3 / Pentium / Celeron		Suporta as tecnologias Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture -64 / Extended Memory 64 / Virtualization / Hyper Threading
Chipset	Intel H61		
Especificação do Super I/O	IT8772E Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count).		Iniciativas para controlo do ambiente Monitorização do hardware Controlador/Monitor da velocidade da ventoinha Função "Smart Guardian" da ITE
Memória principal	Ranuras DIMM DDR3 x 2 Capacidade máxima de memória: 16 GB Cada módulo DIMM suporta uma memória DDR3 de 512MB/ 1GB/2GB/4GB/8GB		Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 1066 / 1333 / 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	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)		Auto negociação de 10 / 100 / 1000 Mb/s Auto negociação de 10 / 100 Mb/s
Suporte para áudio de alta definição	ALC662		Suporta a especificação High-Definition Audio Saída de áudio de 5.1 canais
Ranuras	Ranhura PCI-E Gen3 x16 x1 Ranhura PCI-E Gen2 x 1 x1		(dependendo da CPU)
Conectores na placa	Conector SATA2 x4 Conector do painel frontal x1 Conector de áudio frontal x1 Conector da ventoinha da CPU x1		Cada conector suporta 1 dispositivo SATA2 Para suporte de várias funções no painel frontal Suporta a função de áudio no painel frontal Alimentação da ventoinha da CPU (com a função Smart Fan)

H61MHV/H61MGV/H61MLC2

ESPECIFICAÇÕES		
	Conector da ventoinha do sistema x1 Conector para limpeza do CMOS x1 Conector USB2.0 x2 Porta série x1 Conector de alimentação (24 pinos) x1 Conector de alimentação (4 pinos) x1	Alimentação da ventoinha do sistema Cada conector suporta 2 portas USB2.0 no painel frontal
Entradas/Saídas no painel traseiro	Teclado PS/2 x1 Rato PS/2 x1 Porta HDMI (H61MHV) x1 Porta VGA x1 Porta LAN x1 Porta USB2.0 x4 Tomada de áudio x3	
Tamanho da placa	170 mm (L) X 226 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.

POLISH

<i>SPEC</i>		
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 Każde 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	IT8772E Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count	Funkcje kontroli warunków pracy, Monitor H/W Kontroler/Monitor prędkości wentylatora Funkcja ITE "Smart Guardian"
SATA 2	Zintegrowany kontroler Serial ATA	Transfer danych do 3.0 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0
LAN	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)	10 /100 /1000Mb/s z automatyczną negocjacją szybkości 10 /100 Mb/s z automatyczną negocjacją szybkości
Obsługa audio HD	ALC662	Obsługa High-Definition Audio 5.1 kanałowe wyjście audio
Gniazda	Gniazdo PCI-E Gen3 x16 x1 Gniazdo PCI-E Gen2 x 1 x1	(w zależności od procesora)
Złącza wbudowane	Złącze SATA2 x4 Złącze panela przedniego x1 Przednie złącze audio x1 Złącze główkowe wentylatora procesora x1	Każde złącze obsługuje 1 urządzenie SATA2 Obsługa elementów panela przedniego Obsługa funkcji audio na panelu przednim Zasilanie wentylatora procesora (z funkcją Smart Fan)

H61MHV/H61MGV/H61MLC2

<i>SPEC</i>		
	Złącze główkowe wentylatora systemowego x1 Złącze główkowe kasowania CMOS x1 Złącze USB2.0 x2 Port szeregowy x1 Złącze zasilania (24 pinowe) x1 Złącze zasilania (4 pinowe) x1	Zasilanie wentylatora systemowego Każde złącze obsługuje 2 porty USB2.0 na panelu przednim
Back Panel I/O	Klawiatura PS/2 x1 Mysz PS/2 x1 Port HDMI (H61MHV) x1 Port VGA x1 Port LAN x1 Port USB2.0 x4 Gniazdo audio x3	
Wymiary płyty	170 mm (S) X 226 mm (W)	
Obsługa systemu operacyjnego	Windows XP / Vista / 7	Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

RUSSIAN

СПЕЦ		
CPU (центральный 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 виртуализация / 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	IT8772E 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	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)	Автоматическое согласование 10/ 100 /1000 Мб/с Автоматическое согласование 10/ 100 Мб/с
Звуковая поддержка жесткого диска	ALC662	Звуковая поддержка High-Definition 5.1канальный звуковой выход
Слоты	Слот PCI-E Gen3 x16 @ x16 x1 Слот PCI-E Gen2 x 1 x1	(в зависимости от процессора)
Встроенный разъём	Разъём SATA2 x4 Разъём на лицевой панели x1 Входной звуковой разъём x1 Контактирующее приспособление вентилятора центрального процессора x1	Каждый разъём поддерживает 1 устройство SATA2 Поддержка устройств на лицевой панели Поддержка звуковых функций на лицевой панели Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора)

H61MHV/H61MGV/H61MLC2

<i>СПЕЦ</i>			
	Контактирующее приспособление вентилятора системы	x1	Источник питания для вентилятора системы Каждый разъем поддерживает 2 USB2.0-порта на лицевой панели
	Открытое контактирующее приспособление CMOS	x1	
	USB2.0-разъем	x2	
	Последовательный порт	x1	
	Разъем питания (24 вывод)	x1	
	Разъем питания (4 вывод)	x1	
Задняя панель средств ввода-вывода	Клавиатура PS/2	x1	
	Мышь PS/2	x1	
	Порт HDMI (H61MHV)	x1	
	Порт VGA	x1	
	Порт LAN	x1	
	USB2.0-порт	x4	
	Гнездо для подключения наушников	x3	
Размер панели	170 мм (Ш) X 226 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.

ARABIC

المواصفات		
Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading	Socket 1155 وحدة المعالجة المركزية Intel Core i7 / i5 / i3 / Pentium / Celeron تتردد يصل إلى	مجموعة الشرائح Intel H61
عدد 2 قناة DDR3 DIMM سعة ذاكرة قصوى 16 جيجا بايت ميجا بايت و 1/512/سعة DDR3 تدعم ذاكرة من نوع DIMM تدعم كل قناة و 2/4/8 جيجا بايت	مزيجة لقناة DDR3 وحدة ذاكرة 1066 / 1366 / 1600 سعات DDR3 تدعم الذاكرة من نوع باي-ست ميجا ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة	الذاكرة الرئيسية
وسل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة من ITE "Smart Guardian" وظيفة	IT8772E الأكثر استخدامًا. Super I/O يوفر وظيفة Low Pin Count Interface تدعم تقنية	Super I/O
جيجابت/ثانية 3.0 نقل البيانات بسرعت تصل إلى الإصدار SATA مطابقة لمواصفات 2.0	متكامل Serial ATA تحكم SATA 2	
تفاوض تلقائي 1000/100/10 ميجا بايت / ثنائية تفاوض تلقائي 100/10 ميجا بايت / ثنائية	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)	شبكة داخلية
تدعم تقنية الصوت عالي التعريف من 5.1 قنوات لخروج الصوت	ALC662	دعم الصوت عالي التعريف
(المركزية المعالجة وحدة على اعتمادا)	عدد 1 عدد 1 عدد 1 عدد 1	قناة PCI-E Gen3 x16 قناة PCI-E Gen2 x 1 منفذ SATA2 منفذ اللوحة الأممية منفذ الصوت الأممي وصلة مروحة وحدة المعالجة المركزية
يدعم كل منفذ واحد من أجهزة SATA2 يدعم تجهيزات اللوحة الأممية يدعم وظيفة الصوت باللوحة الأممية توصيل الطاقة لمروحة وحدة المعالجة مع وظيفة Smart Fan	عدد 4 عدد 1 عدد 1 عدد 1	

H61MHV/H61MGV/H61MLC2

للمواصفات		
توصيل الطاقة لمروحة النظام	عدد 1	وصلة مروحة النظام
	عدد 1	وصلة مسح CMOS
يدعم كل منفذ قحتي USB2.0 بالوحة الأملمبية	عدد 2	منفذ USB2.0
	عدد 1	منفذ تسلسلي
	عدد 1	منفذ توصيل الطاقة (24دبوس)
	عدد 1	منفذ توصيل الطاقة (4دبابيس)
	عدد 1	لوحة مفاتيح PS/2
	عدد 1	ملوس PS/2
	عدد 1	منفذ HDMI (H61MHV)
	عدد 1	منفذ VGA
	عدد 1	منفذ شبكة اتصال محلية
	عدد 4	منافذ USB2.0
	عدد 3	مقيس صوت
		حجم اللوحة 170 مم (عرض) X 226 مم (ارتفاع)
يحفظها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو بدون Biostar احتفظ بإخطار .	Windows XP / Vista / 7	دعم أنظمة التشغيل

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	IT8772E もともと一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス	環境コントロールイニシアチブ、 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	RTL8111F (H61MHV & H61MGV) RTL8105E (H61MLC2)	10 / 100 / 1000 Mb/秒のオートネゴシエーション 10 / 100 Mb/秒のオートネゴシエーション
HDオーディオのサポート	ALC662 ハイデフィニションオーディオのサポート 5.1 チャンネルオーディオアウト	
スロット	PCI-E Gen3 x16スロット x1 PCI Express Gen2 x 1スロット x1	(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 システムファンヘッダ x1 CMOSクリアヘッダ x1	各コネクタは1つのSATA2デバイスをサポートします フロントパネル機能をサポートします フロントパネルオーディオ機能をサポートします CPUファン電源装置(スマートファン機能を搭載) システムファン電源装置

H61MHV/H61MGV/H61MLC2

仕様			
	USB2.0コネクタ	x2	各コネクタは2つのフロントパネルUSB2.0ポートをサポートします
	シリアルポート	x1	
	電源コネクタ(24ピン)	x1	
	電源コネクタ(4ピン)	x1	
背面パネル I/O	PS/2キーボード	x1	
	PS/2マウス	x1	
	HDMIポート(H61MHV)	x1	
	VGAポート	x1	
	LANポート	x1	
	USB2.0ポート	x4	
	オーディオジャック	x3	
ボードサイズ	170 mm (幅) X 226 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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