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Dichiarazione di conformità sintetica

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

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

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

quando ad esso applicabili

Short Declaration of conformity

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

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

whenever these laws may be applied

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CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

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

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

1.2 PACKAGE CHECKLIST

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

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

1.3 MOTHERBOARD FEATURES

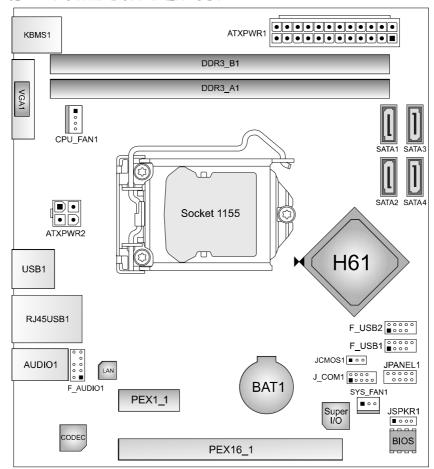
1.3	MOTHERBOARD F	EATURE	5
		SPE	EC .
CPU	Socket 1155 Intel Core i7 / i5 / i3 / Pentium processor	/ Celeron	Supports Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading
Chipset	Intel H61		
Super I/O	IT8772E Provides the most commonly u Super I/O functionality Low Pin Count Interface	sed legacy	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	s/	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	r	Data transfer rates up to 3.0 Gb/s SATA Version 2.0 specification compliant
LAN	RTL8111G (H61MGV3) RTL8106E (H61MLV3)		10 / 100 / 1000Mb/s auto negotiation 10 / 100 Mb/s auto negotiation
Sound Codec	VT1705CF / ALC662		5.1 channels audio out , High Definition Audio
Slots	PCI-E Gen3x16 slot (depending on CPU) PCI-E Gen2 x1 slot	x1 x1	Supports PCI-E Gen2/3 x16 expansion card Supports PCI-E Gen2 x1 expansion card
	SATA2 Connector Front Panel Connector Chassis Speaker Connector	x4 x1 x1	Each connector supports 1 SATA2 device Supports front panel facilities Supports chassis speaker
On Board Connectors	Front Audio Connector CPU Fan Header System Fan Header Clear CMOS Header	x1 x1 x1 x1	Supports front panel audio function CPU Fan power supply (with Smart Fan function) System Fan Power supply Restore CMOS data to factory default
	USB2.0 Connector Serial Port Connector Power Connector (24pin) Power Connector (4pin)	x2 x1 x1 x1	Each connector supports 2 front panel USB2.0 ports Connects to RS-232 Port Connects to Power supply Connects to Power supply
Rear Panel I/O	PS/2 Keyboard PS/2 Mouse VGA Port LAN port USB2.0 Port Audio Jack	x1 x1 x1 x1 x4 x3	Connects to PS/2 Keyboard Connects to PS/2 Mouse Connect to D-SUB monitor Connect to RJ-45 Ethernet cable Connect to USB2.0 devices Provide Audio-In/Out and Mic. Connection
	170 (W) x 191 (L) mm Windows XP / Vista / 7 / 8	7.0	Biostar reserves the right to add or remove support for any OS with or without notice

1.4 REAR PANEL CONNECTORS



Note1: VGA Output requires an Intel Core family processor with Intel Graphics Technology. **Note2:** VGA Maximum resolution: 2048 x 1536 @75Hz

1.5 MOTHERBOARD LAYOUT

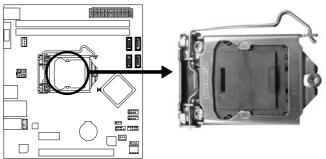


Note1: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

2.1 Installing Central Processing Unit (CPU)

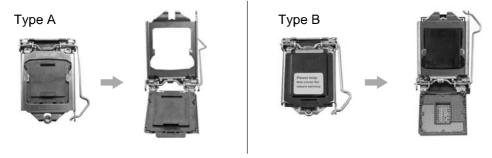
Step 1: Locate the CPU socket on the motherboard



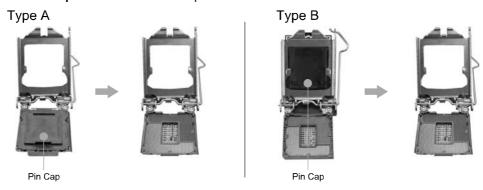
Note1: Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.

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

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



Step 3: Remove the Pin Cap.



4

Step 4: Hold processor with your thumb and index fingers, oriented as shown. Align the notches with the socket. Lower the processor straight down without tilting or sliding the processor in the socket.



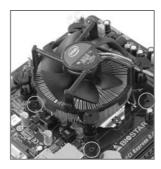
Note: The CPU fits only in one correct orientation. Do not force the CPU into the socket to prevent damaging the CPU.

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

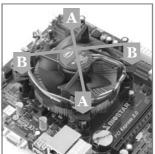


2.2 Install a Heatsink

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



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



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

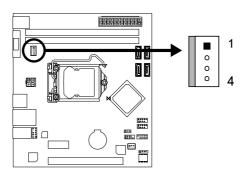
Note2: For proper installation, please kindly refer to the installation manual of your CPU

heatsink.

2.3 FAN HEADERS

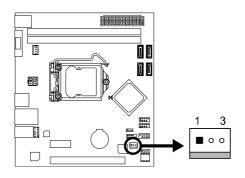
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU_FAN1: CPU Fan Header



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

SYS_FAN1: System Fan Header

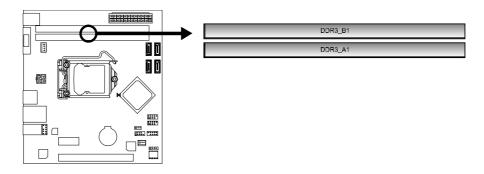


Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

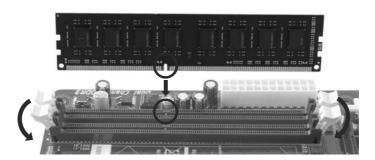
Note: CPU_FAN1, SYS_FAN1 support 4-pin and 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.4 Installing System Memory

A. Memory Modules



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



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



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

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	IVIAX IS TOGE.

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	0	Χ
Disabled	X	0
Enabled	0	0

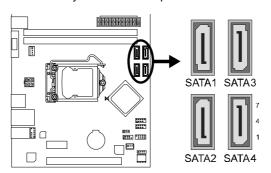
(O means memory installed; X, not installed.)

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

2.5 CONNECTORS AND SLOTS

SATA1~SATA4: Serial ATA Connectors

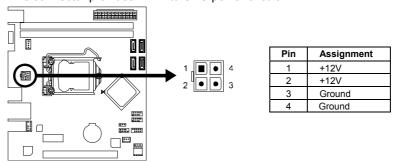
These connectors connect to SATA hard disk drives via SATA cables. Those satisfy the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



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

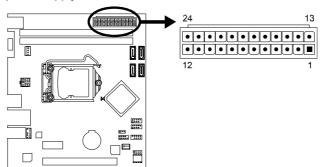
ATXPWR2: ATX Power Source Connector

This connector provides +12V to CPU power circuit.



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

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

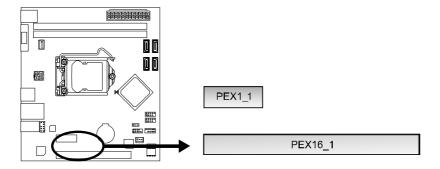
Note2: Insufficient power supplied to the system may result in instability or the peripherals not functioning properly. Use of a PSU with a higher power output is recommended when configuring a system with more power-consuming devices.

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.



Install an Expansion Card

You can install your expansion card by following steps:

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

CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 How to SETUP JUMPERS

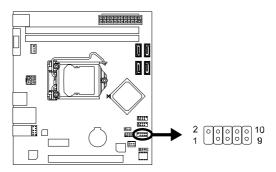
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is "close", if not, that means the jumper is "open".



3.2 DETAIL SETTINGS

JPANEL1: Front Panel Header

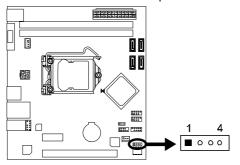
This connector includes Power-on, Reset, HDD LED and Power LED connections. It allows user to connect the PC case's front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	N/A	N/A	2	Power LED (+)	
3	HDD LED(+)	HDD LED	4	Power LED (+)	Power LED
5	HDD LED(-)	חסט נבט	6	Power LED (-)	
7	Ground	Reset Button	8	Power Button	Power-On Button
9	Reset Control	Reset Button	10	Ground	Power-On Bullon

JSPKR1: Chassis Speaker Header

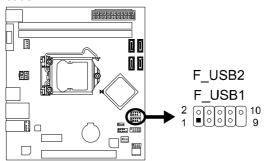
Please connect the chassis speaker to this header.



Pin	Assignment
1	+5V
2	N/A
3	N/A
4	Speaker

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

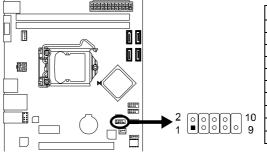
These headers allow users to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



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

J_COM1: Serial Port Connector

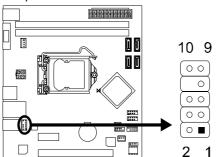
The motherboard has a Serial Port Connector for connecting RS-232 Port.



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

F_AUDIO1: Front Panel Audio Header

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



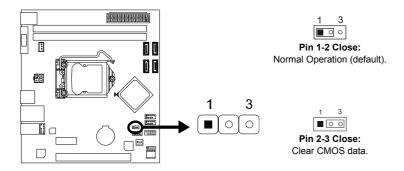
HD Audio		AC'97		
Pin	Assignment	Pin	Assignment	
1	Mic Left in	1	Mic In	
2	Ground	2	Ground	
3	Mic Right in	3	Mic Power	
4	GPIO	4	Audio Power	
5	Right line in	5	RT Line Out	
6	Jack Sense	6	RT Line Out	
7	Front Sense	7	Reserved	
8	Key	8	Key	
9	Left line in	9	LFT Line Out	
10	Jack Sense	10	LFT Line Out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

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

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

JCMOS1: Clear CMOS Jumper

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



% Clear CMOS Procedures:

- 1. Remove AC power line.
- 2. Set the jumper to "Pin 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.

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://get.adobe.com/reader/

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.

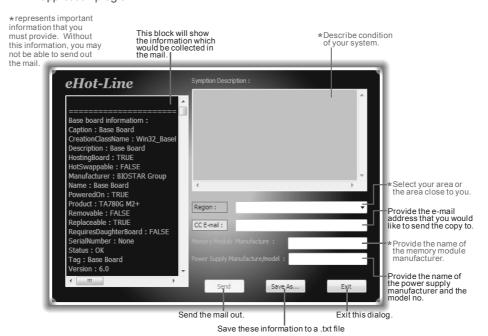
Launching Software

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.

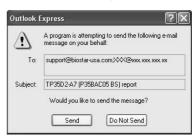
eHot-Line

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.

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



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



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

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





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

Note1: We will not share customer's data with any other third parties, so please feel free to provide your system information while using eHot-Line service.

Note2: If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application. Go to the following web http://www.biostar.com.tw/app/en/about/contact.php for getting our contact information.

BIOScreen Utility

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



Please follow the following instructions to update boot logo:

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

4.3 BIOS UPDATE

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

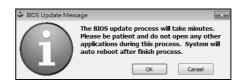
Note: The programming procedure may take minutes, please do not make any operation during the programming process.

1. BIOS Update Utility

- 1. Installing BIOS Update Utility from the DVD Driver.
- 2. Download the proper BIOS from www.biostar.com.tw .
- 3. Open BIOS Update Utility and click the **Update BIOS** button on the main screen.

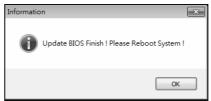


4. A warning message will show up to request your agreement to start the BIOS update. Click **OK** to start the update procedure.



- 5. Choose the location for your BIOS file in the system. Please select the proper BIOS file, and then click on **Open**. It will take several minutes, please be patient.
- 6. After the BIOS Update process is finished, click on **OK** to reboot the system.





7. While the system boots up and the full screen logo shows up, please press the Collete key to enter BIOS setup.

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

Backup BIOS

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



2. Online Update Utility

- 1. Installing BIOS Update Utility from the DVD Driver.
- 2. Please make sure the system is connected to the internet before using this function.
- 3. Open BIOS Update Utility and click the **Online Update** button on the main screen.



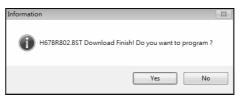
The BIOS update process will take minutes. Please be patient and do not open any other applications during this process. System will auto reboot after finish process.

Yes No

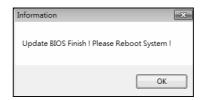
- An open dialog will show up to request your agreement to start the BIOS update. Click Yes to start the online update procedure.
- If there is a new BIOS version, the utility will ask you to download it. Click Yes to proceed.



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



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



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

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

3. BIOSTAR BIOS Flasher

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

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

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

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

Updating BIOS with BIOSTAR BIOS Flasher

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

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



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



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



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

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

4.4 AMI BIOS BEEP CODE

Boot Block Beep Codes

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

POST BIOS Beep Codes

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

4.5 TROUBLESHOOTING

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

CPU Overheated

If the system shutdown automatically after power on system for seconds, that means the CPU protection function has been activated.

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

In this case, please double check:

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

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

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

Or you can:

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



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APPENDIX: SPEC IN OTHER LANGUAGES

GERMAN

	Spezifi	ikationen
	Socket 1155	Unterstützt Execute Disable Bit / Enhanced Intel
CPU	Intel Core i7 / i5 / i3 / Pentium / Celeror	SpeedStep® / Intel Architecture-64 / Extended
Ci U	, , , ,	Memory 64 Technology / Virtualization Technology /
	Prozessoren	Hyper Threading
Chipsatz	Intel H61	
	IT8772E	Umgebungskontrolle,
C	Bietet die häufig verwendeten alten Sup	per Hardware-Überwachung
Super E/A	E/A-Funktionen.	Lüfterdrehzahl-Controller/-Überwachung
	Low Pin Count-Schnittstelle	"Smart Guardian"-Funktion von ITE
	DDR3 DIMM-Steckplätze x 2	Dual-Kanal DDR3 Speichermodul
Arbeitsspeich	Max. 16GB Arbeitsspeicher	Unterstützt DDR3 1066 / 1333 / 1600
er	Jeder DIMM unterstützt 512MB/	registrierte DIMMs. ECC DIMMs werden nicht
	1GB/2GB/4GB/8GB DDR3.	unterstützt.
CATA 2		Datentransferrate bis zu 3.0Gb/s
SATA 2	Integrierter Serial ATA-Controller	Konform mit der SATA-Spezifikation Version 2.0
LAN	RTL8111G (H61MGV3)	10 / 100 / 1000Mb/s Auto-Negotiation
LAIN	RTL8106E (H61MLV3)	10 / 100 Mb/s Auto-Negotiation
HD		Unterstützt High-Definition Audio
Audio-Unters	VT1705CF / ALC662	5.1-Kanal-Audioausgabe
tützung		5.2 Name / Name Sacreta
Steckplätze	PCI-E Gen3 x 16 Steckplatz x1	(je nach CPU)
	PCI-E Gen2 x1-Steckplatz x1	
Onboard-Ans	SATA2-Anschluss x4	Jeder Anschluss unterstützt 1 SATA2-Laufwerk
chluss	Fronttafelanschluss x1	Unterstützt die Fronttafelfunktionen
	Front-Audioanschluss x1	Unterstützt die Fronttafel-Audioanschlussfunktion
	CDLL "Han Carled	CPU-Lüfterstromversorgungsanschluss (mit Smart
	CPU-Lüfter-Sockel x1	Fan-Funktion)

	110211010/110211210			
	Sį	tionen		
	System-Lüfter-Sockel	x1	System-Lüfter-Stromversorgungsanschluss	
	Chassis Lautsprecher-Anschluss	x1		
	"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		
	PS/2-Tastatur	x1		
	PS/2-Maus	x1		
Rückseiten-E	VGA-Anschluss	x1		
/A	LAN-Anschluss	x1		
	USB2.0-Anschluss	x4		
	Audioanschluss	x3		
Platinengröße	170 mm (B) X 191 mm (L)			
OC Hatamatic			Biostar behält sich das Recht vor, ohne Ankündigung	
OS-Unterstüt zung	Windows XP / Vista / 7 / 8		die Unterstützung für ein Betriebssystem	
Luig			hinzuzufügen oder zu entfernen.	

FRENCH

FREN	СП	
	SPE	
	Control 11FF	Prend en charge les technologies d'exécution de bit
	Socket 1155	de désactivation / Intel SpeedStep® optimisée/
UC	Processeurs Intel Core i7 / i5 / i3 / Pentium /	d'architecture Intel 64 / de mémoire étendue 64 / de
	Celeron	virtualisation / Hyper Threading
Chipset	Intel H61	
	IT8772E	Initiatives de contrôle environnementales,
	Fournit la fonctionnalité de Super E/S	Moniteur de matériel
Super E/S	patrimoniales la plus utilisée.	Contrôleur /moniteur de vitesse de ventilateur
	Interface à faible compte de broches	Fonction "Gardien intelligent" de l'ITE
	Fentes DDR3 DIMM x 2	Module de mémoire DDR3 à mode à double voie
Mémoire	Capacité mémoire maximale de 16 Go	Prend en charge la DDR3 1066 / 1333 / 1600
principale	Chaque DIMM prend en charge des DDR3 de	Les DIMM à registres et DIMM avec code correcteurs
	512Mo/1Go/2Go/4Go/8Go	d'erreurs ne sont pas prises en charge
		Taux de transfert jusqu'à 3.0Go/s.
SATA 2	Contrôleur Serial ATA intégré	Conforme à la spécification SATA Version 2.0
	RTL8111G (H61MGV3)	10 / 100 / 1000 Mb/s négociation automatique
LAN	RTL8106E (H61MLV3)	10 / 100 Mb/s négociation automatique
Prise en		Prise en charge de l'audio haute définition
charge	VT1705CF / ALC662	_
audio HD		Sortie audio à 5.1 voies
Fambas	Fente PCI-E Gen3 x 16 x1	(en fonction du CPU)
Fentes	Fente PCI-E Gen2 x1 x1	
Connecteur		Chaque connecteur prend en charge 1 périphérique
embarqué	Connecteur SATA2 x4	SATA2
	Connecteur du panneau avant x1	Prend en charge les équipements du panneau avant
	Connecteur Audio du panneau avant x1	Prend en charge la fonction audio du panneau avant
		Alimentation électrique du ventilateur UC (avec
	Embase de ventilateur UC x1	fonction de ventilateur intelligent)

SPEC			
	Embase de ventilateur système	x1	Alimentation électrique du ventilateur système
	Châssis Connecteur Haut-parleur	x1	
	Embase d'effacement CMOS	x1	
	Connecteur USB2.0	x2	Chaque connecteur prend en charge 2 ports USB2.0 de panneau avant
	Port série	x1	
	Connecteur d'alimentation	x1	
	(24 broches)		
	Connecteur d'alimentation	x1	
	(4 broches)		
	Clavier PS/2	x1	
E/S du	Souris PS/2	x1	
panneau	Port VGA	x1	
larrière	Port LAN	x1	
arriere	Port USB2.0	x4	
	Fiche audio	x3	
Dimensions de la carte	170 mm (I) X 191 mm (H)		
Support SE	Windows XP / Vista / 7 / 8		Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis

ITALIAN

	S	SPECIFI	TCA
	Socket 1155		Supporto di Execute Disable Bit / Enhanced
CPU	Processore Intel Core i7 / i5 / i3 / Pentium / Celeron		Intel SpeedStep® / Architettura Intel 64 /
CPU			Tecnologia Extended Memory 64 / Tecnologia
			Virtualization / Hyper Threading
Chipset	Intel H61		
	IT8772E		Funzioni di controllo dell'ambiente:
Super I/O	Fornisce le funzionalità legacy Sup	per I/O	Monitoraggio hardware
Super 1/O	usate più comunemente.		Controller / Monitoraggio velocità ventolina
	Interfaccia LPC (Low Pin Count)		Funzione "Smart Guardian" di ITE
	Alloggi DIMM DDR3 x 2		Modulo di memoria DDR3 a canale doppio
Memoria	Capacità massima della memoria 16GB		Supporto di DDR3 1066 / 1333 / 1600
principale	Ciascun DIMM supporta DDR3		DIMM registrati e DIMM ECC non sono
	512MB/1GB/2GB/4GB/8GB		supportati
			Velocità di trasferimento dei dati fino a
SATA 2	Controller Serial ATA integrato		3.0Gb/s.
			Compatibile specifiche SATA Versione 2.0
LAN	RTL8111G (H61MGV3)		Negoziazione automatica 10 / 100 / 1000 Mb/s
LAN	RTL8106E (H61MLV3)		Negoziazione automatica 10 / 100 Mb/s
Supporto) T470505 / A1 0562		Supporto audio High-Definition (HD)
audio HD	VT1705CF / ALC662		Uscita audio 5.1 canali
Alloggi	Alloggio PCI-E Gen3 x16 x	:1	(a seconda del CPU)
Alloggi	Alloggio PCI Express Gen2 x1 x	1	
Connettori	Connettore SATA2 x	:4	Ciascun connettore supporta 1 unità SATA2
su scheda	Connettore pannello frontale x	:1	Supporta i servizi del pannello frontale
	Connettore audio frontale x	:1	Supporta la funzione audio pannello frontale
	0 11 11 2211		Alimentazione ventolina CPU (con funzione
	Collettore ventolina CPU x	x1	Smart Fan)
	Collettore ventolina sistema x	:1	Alimentazione ventolina di sistema

	HOTMGV3/HOTMEV				
		SPECIF.	TCA		
	Chassis Connettore altoparlante	e x1			
	Collettore cancellazione CMOS	x1			
	Connettore USB2.0	x2	Ciascun connettore supporta 2 porte USB2.0 pannello frontale		
	Porta seriale	x1			
	Connettore alimentazione	x1			
	(24 pin)				
	Connettore alimentazione	x1			
	(4 pin)				
	Tastiera PS/2	x1			
	Mouse PS/2	x1			
I/O pannello	Porta VGA	x1			
posteriore	Porta LAN	x1			
	Porta USB2.0	x4			
	Connettore audio	x3			
Dimension i scheda	170 mm (larghezza) x 191 mm	(altezza)			
Sistemi			Biostar si riserva il diritto di aggiungere o		
operativi	Windows XP / Vista / 7 / 8		rimuovere il supporto di qualsiasi sistema		
supportati			operativo senza preavviso.		

SDANISH

3PAN	ВН					
	Especificación					
	Control 11FF		Admite Bit de deshabilitación de ejecución / Intel			
	Procesador Intel Core i7 / i5 / i3 / Pentium / Celeron		SpeedStep® Mejorado / Intel Architecture-64 /			
CPU			Tecnología Extended Memory 64 / Tecnología de			
			virtualización / Hyper Threading			
Conjunto de	Intel H61					
	ІТ8772Е		Iniciativas de control de entorno,			
Cóman E/C	Le ofrece las funcionalidades hereda	adas de	Monitor hardware			
Súper E/S	uso más común Súper E/S.		Controlador/monitor de velocidad de ventilador			
	Interfaz de cuenta Low Pin		Función "Guardia inteligente" de ITE			
	Ranuras DIMM DDR3 x 2		Módulo de memoria DDR3 de canal Doble			
Memoria	Capacidad máxima de memoria de	16GB	Admite DDR3 de 1066 / 1333 / 1600			
principal	Cada DIMM admite DDR de		No admite DIMM registrados o DIMM compatibles			
	512MB/1GB/2GB/4GB/8GB		con ECC			
C4T4 2			Tasas de transferencia de hasta 3.0 Gb/s.			
SATA 2	Controlador ATA Serie Integrado		Compatible con la versión SATA 2.0			
D - 411	RTL8111G (H61MGV3)		Negociación de 10 / 100 / 1000 Mb/s			
Red Local	RTL8106E (H61MLV3)		Negociación de 10 / 100 Mb/s			
Soporte de			Soporte de sonido de Alta Definición			
sonido HD	VT1705CF / ALC662		Salida de sonido de 5.1 canales			
Dam.us	Ranura PCI-E Gen3 x16	X1	(dependiendo de la CPU)			
Ranuras	Ranura PCI-E Gen2 x 1	X1				
Conectores	Conector SATA2	X4	Cada conector soporta 1 dispositivos SATA2			
en placa	Conector de panel frontal	X1	Soporta instalaciones en el panel frontal			
	Conector de sonido frontal	X1	Soporta funciones de sonido en el panel frontal			
	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			

			HOIMGV3/HOIMLV3
		Especifica	ación
	Cabecera de borrado de CMOS	X1	
	Chasis Conector de altavoz	X1	
	Conector USB2.0	X2	Cada conector soporta 2 puertos USB2.0 frontales
	Puerto serie	X1	
	Conector de alimentación	X1	
	(24 patillas)		
	Conector de alimentación	X1	
	(4 patillas)		
	Teclado PS/2	X1	
Panel	Ratón PS/2	X1	
trasero de	Puerto VGA	X1	
E/S	Puerto de red local	X1	
,-	Puerto USB2.0	X4	
	Conector de sonido	Х3	
Tamaño de la placa	170 mm. (A) X 191 Mm. (H)		
Soporte de sistema operativo	Windows XP / Vista / 7 / 8		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

PORTUGUESE

	ESF	PECIFIC	AÇÕES
			Suporta as tecnologias Execute Disable Bit /
	Socket 1155 Processador Intel Core i7 / i5 / i3 / Pentium /		Enhanced Intel SpeedStep® / Intel Arquitecture -6
CPU			/ Extended Memory 64 / Virtualization / Hyper
	Celeron		Threading
Chipset	Intel H61		
	IT8772E		
	utilizadas em termos da especificação Super		Iniciativas para controlo do ambiente
Especificaçã			Monitorização do hardware
o Super I/O			Controlador/Monitor da velocidade da ventoinha
	Interface LPC (Low Pin Count).		Função "Smart Guardian" da ITE
	Ranhuras DIMM DDR3 x 2		Módulo de memória DDR3 de canal duplo
Memória	Capacidade máxima de memória: 16 GB		Suporta módulos DDR3 1066 / 1333 / 1600
principal			Os módulos DIMM registados e os DIMM ECC não
principal	Cada módulo DIMM suporta uma memória		_
	DDR3 de 512MB/ 1GB/2GB/4GB/8GB		são suportados
	Controlador Serial ATA integrado		Velocidades de transmissão de dados até 3.0 Gb/
SATA 2			Compatibilidade com a especificação SATA versão
			2.0
LAN	RTL8111G (H61MGV3)		Auto negociação de 10 / 100 / 1000 Mb/s
	RTL8106E (H61MLV3)		Auto negociação de 10 / 100 Mb/s
Suporte			
para áudio	VT1705CF / ALC662		Suporta a especificação High-Definition Audio
de alta			Saída de áudio de 5.1 canais
definição			
Ranhuras	Ranhura PCI-E Gen3 x16	x1	(dependendo da CPU)
	Ranhura PCI-E Gen2 x 1	x1	
	Conector SATA2	x4	Cada conector suporta 1 dispositivo SATA2
Conectores	Conector do painel frontal	x1	Para suporte de várias funções no painel frontal
na placa	Conector de áudio frontal	x1	Suporta a função de áudio no painel frontal
			Alimentação da ventoinha da CPU (com a função
	Conector da ventoinha da CPU x1		Smart Fan)

			H61MGV3/H61MLV3			
	ESPECIFICAÇÕES					
	Conector da ventoinha do sistema	x1	Alimentação da ventoinha do sistema			
	Chassis Conector Speaker	x1				
	Conector para limpeza do CMOS	x1				
	Conector USB2.0	x2	Cada conector suporta 2 portas USB2.0 no painel frontal			
	Porta série	x1				
	Conector de alimentação	x1				
	(24 pinos)					
	Conector de alimentação	x1				
	(4 pinos)					
	Teclado PS/2	x1				
Entradas/S	Rato PS/2	x1				
aídas no	Porta VGA	x1				
painel	Porta LAN	x1				
traseiro	Porta USB2.0	x4				
	Tomada de áudio	x3				
Tamanho da placa	170 mm (L) X 191 mm (A)					
Sistemas			A Biostar reserva-se o direito de adicionar ou			
operativos	Windows XP / Vista / 7 / 8		remover suporte para qualquer sistema operativo			
suportados			com ou sem aviso prévio.			

POLISH

POLI	POLISH					
	SPEC					
	Socket 1155 Procesor Intel Core i7 / i5 / i3 / Pentium /		Obsługa Execute Disable Bit / Enhanced Intel			
Procesor			SpeedStep® / Intel Architecture-64 / Extended			
Flocesoi			Memory 64 Technology / Virtualization Technology /			
	Celeron		Hyper Threading			
Chipset	Intel H61					
	Gniazda DDR3 DIMM x 2					
Pamięć	Maks. wielkość pamięci 16GB		Moduł pamięci DDR3 z trybem podwójnego kanału			
główna	Każde gniazdo DIMM obsługuje mod	duły	Obsługa DDR3 1066 / 1333 / 1600			
	512MB/1GB/2GB/4GB/8GB DDR3		Brak obsługi Registered DIMM oraz ECC DIMM			
	П8772E		Funkcje kontroli warunków pracy,			
	Zapewnia najbardziej powszechne funkcje		Monitor H/W			
Super I/O	Super I/O.		Kontroler/Monitor prędkości wentylatora			
	Interfejs Low Pin Count		Funkcja ITE "Smart Guardian"			
	Zintegrowany kontroler Serial ATA		Transfer danych do 3.0 Gb/s.			
SATA 2			Zgodność ze specyfikacją SATA w wersji 2.0			
			10 /100 /1000Mb/s z automatyczną negocjacją			
LAN	RTL8111G (H61MGV3)		szybkości			
	RTL8106E (H61MLV3)		10 /100 Mb/s z automatyczną negocjacją szybkości			
Obsługa			Obsługa High-Definition Audio			
audio HD	VT1705CF / ALC662		5.1 kanałowe wyjście audio			
	Gniazdo PCI-E Gen3 x16	x1	(w zależności od procesora)			
Gniazda	Gniazdo PCI-E Gen2 x 1	x1				
Złącza	Złącze SATA2	x4	Każde złącze obsługuje 1 urządzenie SATA2			
wbudowane	Złącze panela przedniego	x1	Obsługa elementów panela przedniego			
	Przednie złącze audio	x1	Obsługa funkcji audio na panelu przednim			
	Złącze główkowe wentylatora		Zasilanie wentylatora procesora (z funkcją Smart			
	procesora	x1	Fan)			

			H61MGV3/H61MLV3			
	SPEC					
	Złącze główkowe wentylatora		Zasilanie wentylatora systemowego			
	systemowego	x1				
	Chassis Speaker Connector	x1				
	Złącze główkowe kasowania CMOS	x1				
	Złącze USB2.0	x2	Każde złącze obsługuje 2 porty USB2.0 na panelu przednim			
	Port szeregowy	x1				
	Złącze zasilania (24 pinowe)	x1				
	Złącze zasilania (4 pinowe)	x1				
	Klawiatura PS/2	x1				
	Mysz PS/2	x1				
Back Panel	Port VGA	x1				
I/O	Port LAN	x1				
	Port USB2.0	x4				
	Gniazdo audio	x3				
Wymiary płyty	170 mm (S) X 191 mm (W)					
Obsluga systemu operacyjne go	Windows XP / Vista / 7 / 8		Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.			

RUSSIAN

110771	RUSSIAN					
		СПЕL				
СРИ (центральн ый процессор)	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 512MБ/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 АТА		скорость передачи данных до 3.0 гигабит/с. Соответствие спецификации SATA версия 2.0			
Локальная сеть	RTL8111G (H61MGV3) RTL8106E (H61MLV3)		Автоматическое согласование 10/ 100 /1000 M6/c Автоматическое согласование 10/ 100 M6/c			
Звуковая поддержка жесткого диска			Звуковая поддержка High-Definition 5.1канальный звуковой выход			
Слоты		x1 x1	(в зависимости от процессора)			
Встроенны	Разъём SATA2	x4	Каждый разъём поддерживает 1 устройство SATA2			
й разъём	Разъём на лицевой панели	x1	Поддержка устройств на лицевой панели			
	Входной звуковой разъём	x1	Поддержка звуковых функций на лицевой панели			
	Контактирующее приспособление вентилятора центрального процесс	copa x1	Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора)			

	HOIMGV3/HOIMLV				
	СПЕЦ				
	Контактирующее приспособление		Metalling State and State		
	вентилятора системы	x1	Источник питания для вентилятора системы		
	Шасси акустической системы	x1			
	Открытое контактирующее				
	приспособление CMOS	x1			
	USB2.0-разъём	x2	Каждый разъём поддерживает 2 USB2.0-порта на лицевой панели		
	Последовательный порт	x1			
	Разъем питания (24 вывод)	x1			
	Разъем питания (4 вывод)	x1			
	Клавиатура PS/2	x1			
Задняя	Мышь PS/2	x1			
панель	Порт VGA	x1			
средств	Порт LAN	x1			
ввода-выв	USB2.0-порт	x4			
ода	Гнездо для подключения				
	наушников	x3			
Размер панели	170 мм (Ш) Х 191 мм (В)				
Поддержка OS	Windows XP / Vista / 7 / 8		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для ОS с или без		
os	VVIII LIGOVVS AF / VISLA / / / O		предварительного уведомления.		

ARABIC

AKADIC		
	المواصفات	
Execute Disable Bit / Enhanced Intel SpeedStep® / Intel Architecture-64 / Extended Memory 64 Technology / Virtualization Technology / Hyper Threading	/ Intel Core i7 / i5 / i3 / Pentium /	وحدة المعلجة المركزية
	Intel H61	مجموعة الشرائح
قحة DDR3 DIMM عدد	مزىوجة القائةDDR3وحدة ناكرة	
سعة ذاكرة قصوى 16 جيجا بايت	DDR3 / 1366 / 1366 / 1600 سعك DDR3 تدعم الذاكرة من نوع	الذاكرة الرئيسية
ميجابليت و 512/1 سعة DDR3 تدعم ذاكرة من نوع DIMM تدعم كل قدة	بلیت میجا	,,,,,,,
و2/و4/و8 جيجا بليت	ECC وتلك التي لا تتوافق مع DIMMلا تدعم رقلق الذاكرة	
وسائل التحكم في البينة: مر اقب لمعرفة حلة الأجهزة	П8772Е	
مر اقب في سرعة المروحة	الأكثر استخداماً. Super I/Oتوفر وظيفة	Super I/O
TEمن "Smart Guardian"وظيفة	Low Pin Count Interfaceگئعہ تقنیة	
جيجابت/ثانية. 0. 3نقل الديانات بسر علت تصل إلى 2.0 الإصدار SATAكمطلبقة أمو اصفات	متكاملSerial ATAمتحكم	SATA 2
تقۇرض ئلقلى 1000/100//10 ميجابليت/ ثانية	RTL8111G (H61MGV3)	شبكة باخلية
تفاوض نلقائي 100/10 ميجا بليت / ثانية	RTL8106E (H61MLV3)	
ئدىم تقنية الصوت على التعريف من 5.1 قوات لخرج الصوت	VT1705CF / ALC662	دعم الصوت علي التعريف
)اعتمادا على وحدة المعالجة المركزية(اقحة PCI-E Gen3 x 16 عندا	القحات
	عد 1 PCI-E Gen2 x 1	القلحمت
يدعم كل منفذ واحد من أجهزة SATA2	عد 4 SATA2 عدد 4	المناقذ على سطح
يدعم تجهيزات اللوحة الأمامية	منفذ اللوحة الأمامية عدد 1	اللوحة
يدعم وظيفة الصوت باللوحة الأمامية	منفذ الصوت الأمامي عدد 1	
لتوصيل الطاقة لمروحة وحدة المعالجة مع وظيفة Smart Fan	وصلة مروحة وحدة المعالجة المركزية عد 1	

		110114043/1	IOTITE	
المواصفات				
لتوصيل الطاقة لمروحة النظام	عد 1	وصلة مروحة النظام		
	عد 1	قابل رئيس رابط		
	J 77E	وصلة مسح CMOS		
يدعم كل منفذ فقحقي USB2.0 باللوحة الأمامية	عدد 2	منفذ USB2.0		
	1275	منفذ تسلسلي		
	عدد 1	منفذ توصيل الطاقة (24دبوس)		
	عد 1	منفذ توصيل الطاقة (٢٤٠٠ بيس)		
	عد 1	لوحة مفاتيح PS/2		
	عدد 1	ملوس PS/2		
	عد 1	VGA منافذ	منافذ دخل/خرج	
	1 775	منفذ شبكة اتصال محلية	اللوحة الخلفية	
	عدد 4	منافذ USB2.0		
	عدد 3	مقبس صوت		
		170 مم (عرض) X 191 مم (ارتفاع)	حجم اللوحة	
بحقها في إضافة أو إز الة الدعم لأي نظام تشغيل بإخطار أو بنون Biostar تحقظ	Windows X	P / Vista / 7 / 8	دعم أنظمة التشغيل	
إخطار.				

4

JAPANESE

APANE	_	红樣	
		J.L.1&	
	Socket 1155 Intel Core i7 / i5 / i3 / Pentium / Celeron プロ		Execute Disable Bit / Enhanced Intel SpeedStep® /
CPU			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		
	DDR3 DIMMスロット x 2		
	最大メモリ容量 16GB		デュアル チャンネルモードDDR3メモリモジュール
メインメモリ	各DIMMは 512MB/1GB/2GB/4GB/80	GB DDR3	DDR3 1066 / 1333 / 1600をサポート
	をサポート		登録済みDIMMとECC DIMMはサポートされません
	IT8772E		環境コントロールイニシアチブ、
	もっとも一般に使用されるレガシーSuper I/O機		H/Wモニター
Super I/O	能を採用しています。		ファン速度コントローラ/ モニター
	低ピンカウントインターフェイス		ITEの「スマートガーディアン」機能
SATA 2	(the state of the		最高3.0 Gb/秒のデータ転送速度
SAIA Z	統合シリアル ATA コントローラ		SATAバージョン2.0仕様に準拠
LAN	RTL8111G (H61MGV3)		10 / 100 / 1000 Mb/秒のオートネゴシエーション
LAN	RTL8106E (H61MLV3)		10 / 100 Mb/秒のオートネゴシエーション
HDオーディ) T470F0F / AL 0662		ハイデフィニションオーディオのサポート
オのサポート	T1705CF / ALC662		5.1 チャンネルオーディオアウト
7 1	PCI-E Gen3 x16スロット	x1	(CPUに依存)
スロット	PCI Express Gen2 x 1スロット	x1	
オンボードコ	SATA2コネクタ	x4	各コネクタは1つのSATA2デバイスをサポートします
ネクタ	フロントパネルコネクタ	x1	フロントパネル機能をサポートします
	フロントオーディオコネクタ	x1	フロントパネルオーディオ機能をサポートします
	CPUファンヘッダ	x1	CPUファン電源装置(スマートファン機能を搭載)
	システムファンヘッダ	x1	システムファン電源装置
	シャーシスピーカーコネクタ	x1	
	CMOSクリアヘッダ	x1	

12.

	USB2.0コネクタ	x2	各コネクタは2つのフロントバネル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	
	PS/2キーボード	x1	
	PS/2マウス	x1	
背面パネル	VGAポート	x1	
I/O	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 191 mm (高さ)		
OSサポート	Windows XP / Vista / 7 / 8		Biostarは事前のサポートなしにOSサポートを追加または 削除する権利を留保します。

2013/07/30

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