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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.

### **1.2 PACKAGE CHECKLIST**

- Serial ATA Cable x2
- Rear I/O Panel for ATX Case x1
- User's Manual x1
- Fully Setup Driver DVD x1

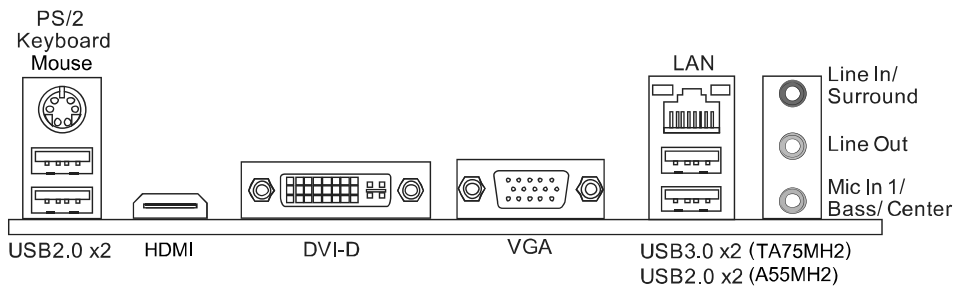
**Note:** The package contents may be different due to the sales region or models in which it was sold. For more information about the standard package in your region, please contact your dealer or sales representative.

### 1.3 MOTHERBOARD FEATURES

Specifications		
CPU Support	Socket FM2 for AMD A-series/ E2-series processor Maximum CPU TDP (Thermal Design Power): 100Watt * Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for CPU support list.	
Chipset	AMD A75 FCH (TA75MH2)	AMD A55 FCH (A55MH2)
Memory	Supports Dual Channel DDR3 800/ 1066/ 1333/ 1600/ 1866 2 x DDR3 DIMM Memory Slot, Max. Supports up to 32 GB Memory Each DIMM supports non-ECC 512MB/ 1/ 2/ 4/ 8/ 16 GB DDR3 module * Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for Memory support list.	
Storage	AMD A75 FCH 6x SATA 6Gb/s Connector Supports RAID 0,1,10 & AHCI	AMD A55 FCH 6x SATA 3Gb/s Connector Supports RAID 0,1,10 & AHCI
LAN	Realtek RTL 8111F 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability	
Audio Codec	ALC662 5.1 Channels, High Definition Audio	
USB	AMD A75 FCH 4x USB 3.0 port (2 on rear I/Os and 2 via internal headers) 6x USB 2.0 port (2 on rear I/Os and 4 via internal headers)	AMD A55 FCH 8x USB 2.0 port (4 on rear I/Os and 4 via internal headers)
Expansion Slots	1x PCI Slot 2x PCIe 2.0 x1 Slot 1x PCIe 2.0 x16 Slot	
Rear I/Os	<b>TA75MH2:</b> 1x PS/2 Keyboard/Mouse 1x HDMI Port 1x VGA Port 1x DVI Port 1x LAN port 2x USB 2.0 Port 2x USB 3.0 Port 3x Audio Jack	<b>A55MH2:</b> 1x PS/2 Keyboard/Mouse 1x HDMI Port 1x VGA Port 1x DVI Port 1x LAN port 4x USB 2.0 Port 3x Audio Jack
Internal I/Os	<b>TA75MH2:</b> 6x SATA 6.0Gb/s Connector 2x USB 2.0 Header (each header supports 2 USB 2.0 ports) 1x USB 3.0 Header (each header supports 2 USB 3.0 ports)	<b>A55MH2:</b> 6x SATA 3.0Gb/s Connector 2x USB 2.0 Header (each header supports 2 USB 2.0 ports) 1x 4-Pin Power Connector 1x 24-Pin Power Connector

Specifications		
	1x 4-Pin Power Connector 1x 24-Pin Power Connector 1x CPU Fan Connector 1x System Fan Connector 1x Front Panel Header 1x Front Audio Header 1x Clear CMOS Header 1x Consumer IR Header 1x Printer Port Header 1x Serial Port Header 1x S/PDIF out Connector	1x CPU Fan Connector 1x System Fan Connector 1x Front Panel Header 1x Front Audio Header 1x Clear CMOS Header 1x Consumer IR Header 1x Printer Port Header 1x Serial Port Header 1x S/PDIF out Connector
Form Factor	microATX Form Factor, 244 mm x 200 mm	
OS Support	Windows XP / Vista / 7/ 8 Biostar reserves the right to add or remove support for any OS with or without notice.	

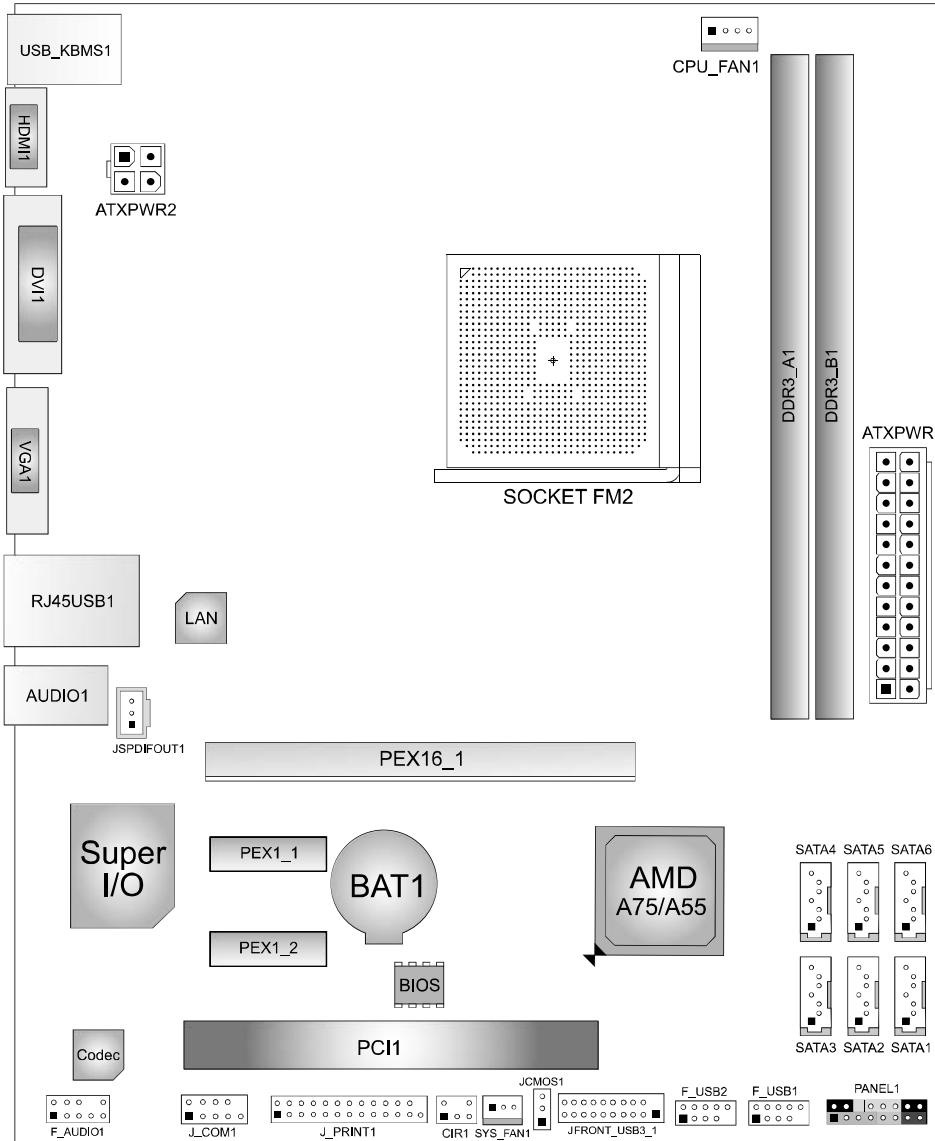
### 1.4 REAR PANEL CONNECTORS



- Note 1:** HDMI / DVI-D / VGA Output require an AMD family processor with integrated graphics.
- Note 2:** The mainboard supports three independent display outputs.
- Note 3:** Since the audio chip supports High Definition Audio Specification, the function of each audio jack can be defined by software. The input / output function of each audio jack listed above represents the default setting. However, when connecting external microphone to the audio port, please use the Line In (Blue) and Mic In (Pink) audio jack.
- Note 4:** Maximum resolution:

Outputs	Maximum resolution	Bit Depth
HDMI	1920 x 1080 @60Hz	24, 30, 36 bpp
	1920 x 1200 @60Hz	24 bpp
DVI-D	1920 x 1200 @60Hz	30 bpp
	2560 x 1600 @60Hz	24 bpp
VGA	1920 x 1600 @60Hz	--

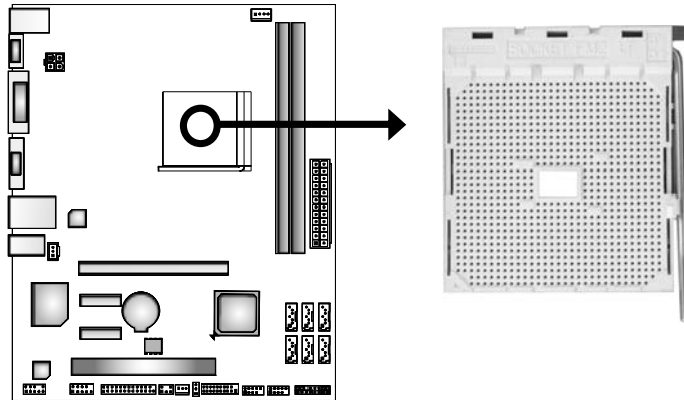
## 1.5 MOTHERBOARD LAYOUT



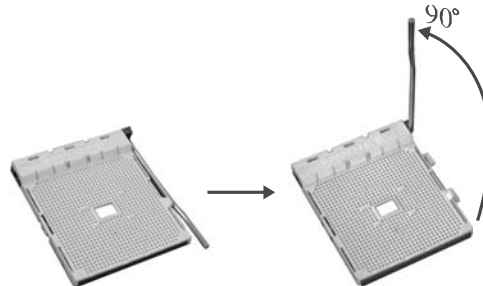
**Note:** ■ represents the 1<sup>st</sup> pin.

## CHAPTER 2: HARDWARE INSTALLATION

### 2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



**Step 1:** Pull the socket locking out from the socket and then raise the lever up to a 90-degree angle.



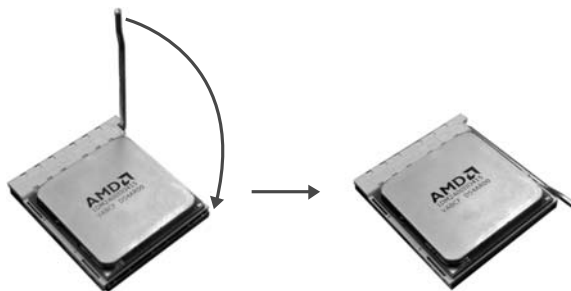
**Step 2:** Look for the white triangle on socket, and the gold triangle on CPU should point towards this white triangle. The CPU will fit only in the correct orientation.



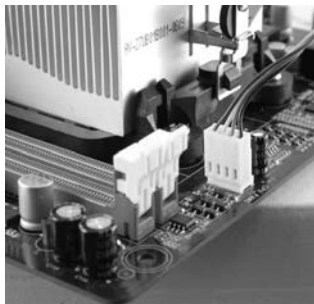
## Motherboard Manual

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**Step 3:** Hold the CPU down firmly, and then close the lever to locked the position



**Step 4:** Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the CPU\_FAN1. This completes the installation.

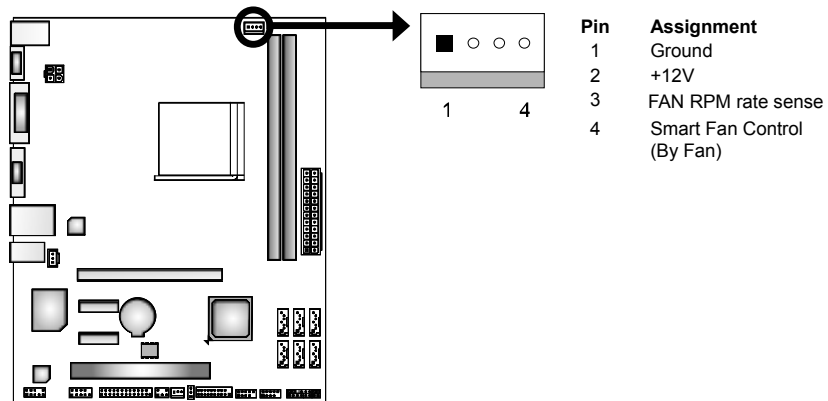




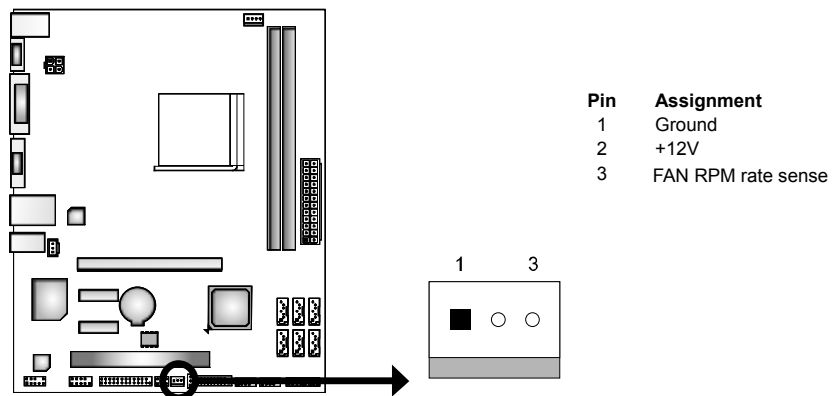
## 2.2 FAN HEADERS

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

### CPU\_FAN1: CPU Fan Header



### SYS\_FAN1: System Fan Header

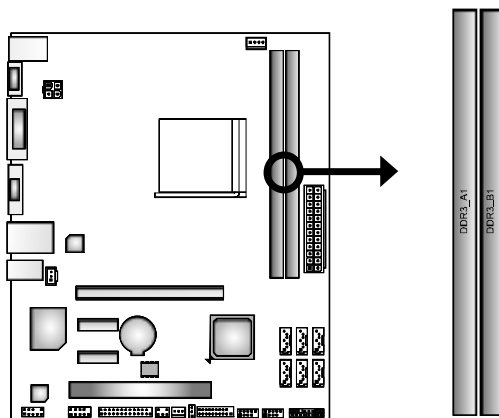


**Note:**

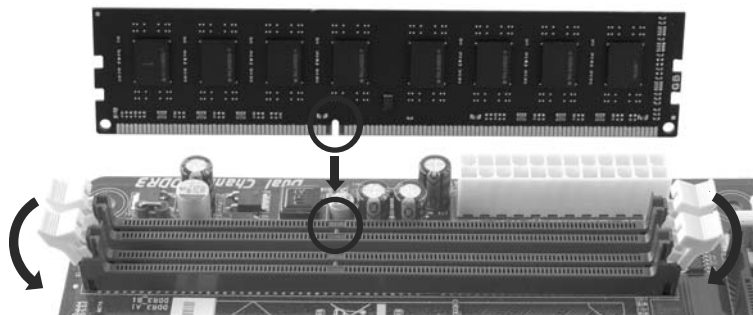
CPU\_FAN1, SYS\_FAN1 support 4-pin and 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

## 2.3 INSTALLING SYSTEM MEMORY

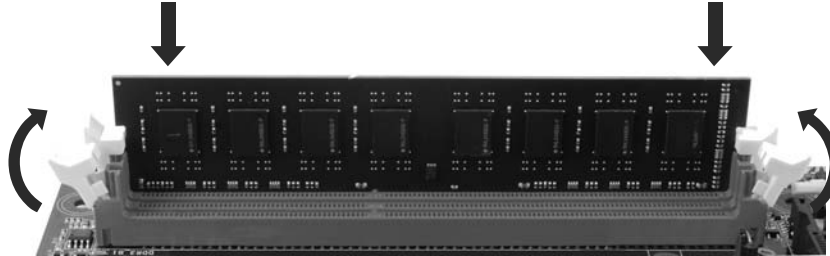
### A. DDR3 Modules



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



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



**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/16GB	Max is 32GB.
DDR3_B1	512MB/1GB/2GB/4GB/8GB/16GB	

**C. Dual Channel Memory Installation**

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

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

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

**Note:**

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

**D. DDR Speed Support**

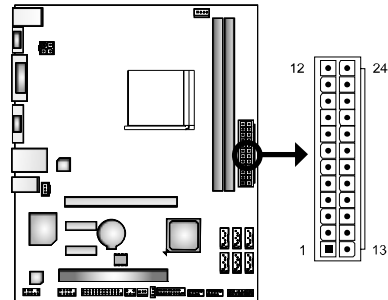
Please refer to the following table for DDR speed reference:

1.50V	1.35V	1.25V
DDR3-1866	DDR3-1600	DDR3-1333

## 2.4 CONNECTORS AND SLOTS

### ATXPWR1: ATX Power Source Connector

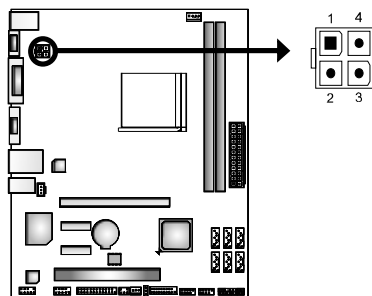
This connector allows user to connect 24-pin power connector on the ATX power supply.



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

### ATXPWR2: ATX Power Source Connector

This connector will provide +12V to CPU power circuit.



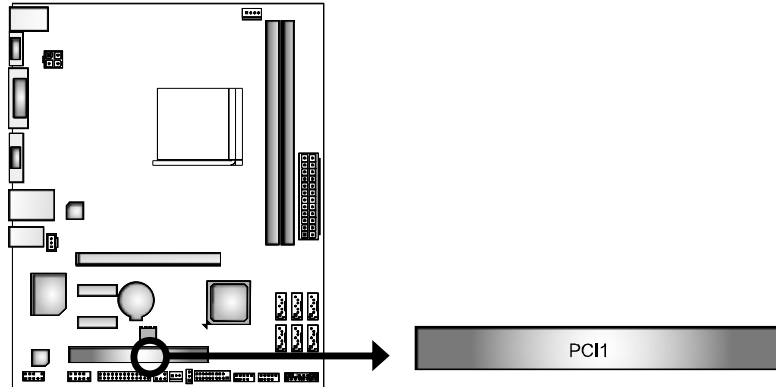
Pin	Assignment
1	+12V
2	+12V
3	Ground
4	Ground

**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.

**PCI1: Peripheral Component Interconnect Slot**

This motherboard is equipped with 1 standard PCI slot. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards.

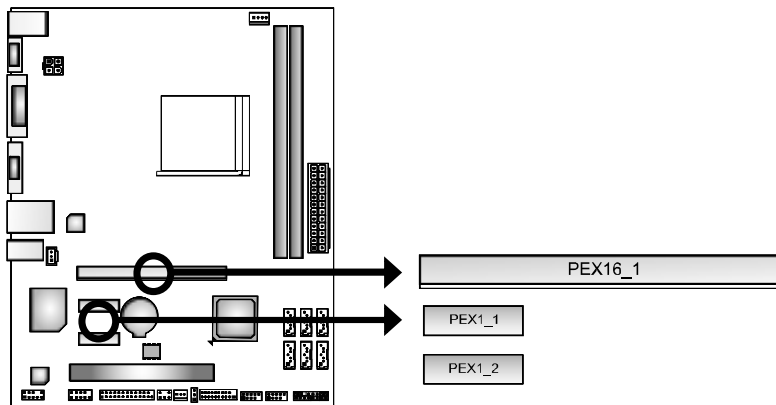


**PEX16\_1: PCI-Express Gen2 x16 Slot**

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s simultaneously per direction, for an aggregate of 16GB/s totally.
- PCI-Express Gen2 supports a raw bit-rate of 5.0Gb/s on the data pins.

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

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

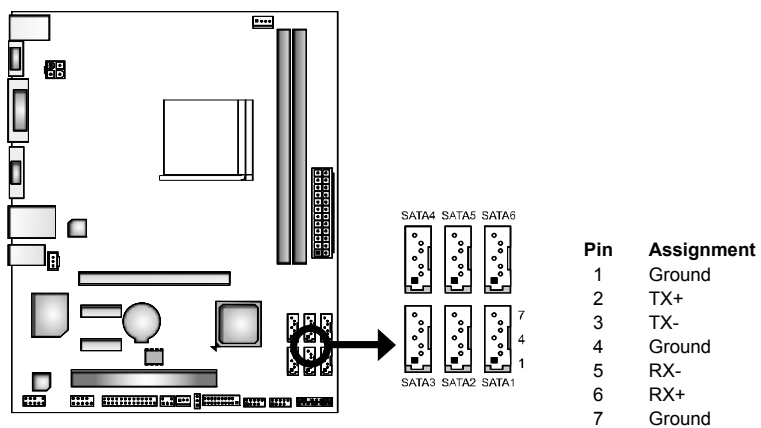


### SATA1~SATA6: Serial ATA Connectors

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

TA75MH2 satisfies the SATA 3.0 spec and with transfer rate of 6.0Gb/s.

A55MH2 satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



## CHAPTER 3: HEADERS & JUMPERS SETUP

### 3.1 HOW TO SETUP JUMPERS

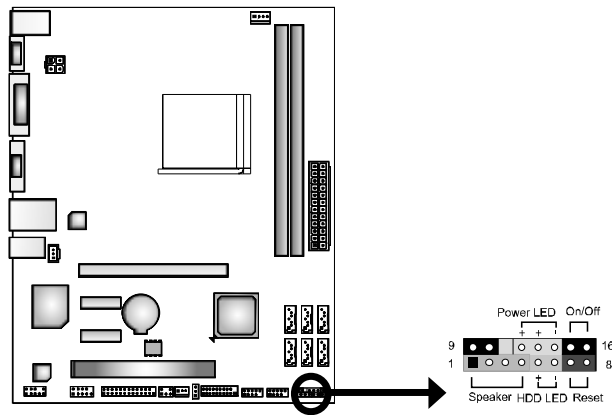
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



### 3.2 DETAIL SETTINGS

#### PANEL1: Front Panel Header

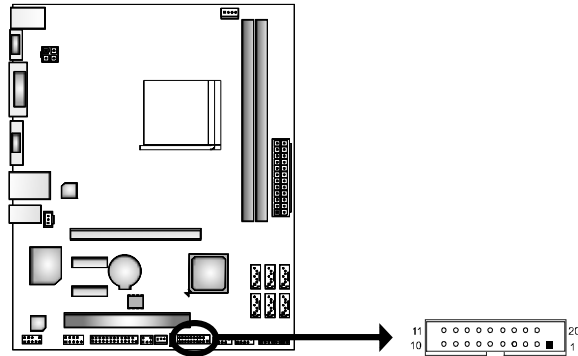
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	N/A	Power LED
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 (-)	Reset button	14	Power LED (-)	Power-on button
7	Ground		15	Power button	
8	Reset control		16	Ground	

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

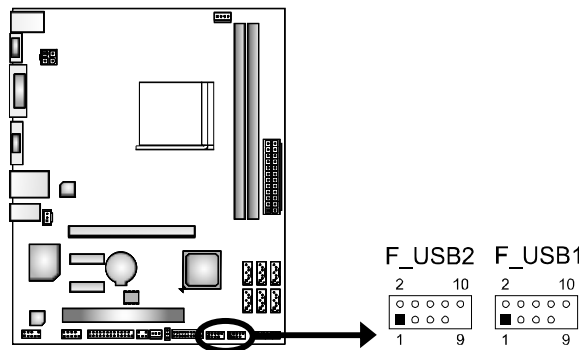
This header allows user to connect additional USB cable on the PC front panel, and also can be connected with a wide range of simultaneously accessible external Plug and Play peripherals. (The USB 3.0 header is for TA75MH2 only)



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

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

This header allows user to connect additional USB cable on the PC front panel, and also can be connected with a wide range of simultaneously accessible external Plug and Play peripherals.

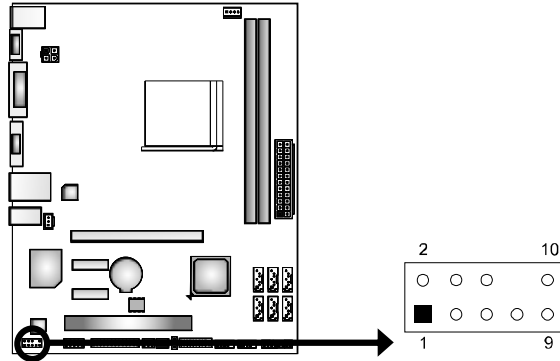


Pin	Assignment
1	+5V (fused)
2	+5V (fused)
3	USB-
4	USB-
5	USB+
6	USB+
7	Ground
8	Ground
9	NC
10	Key



### F\_AUDIO1: Front Panel Audio Header

This header allows user to connect the front audio output cable with the PC front panel. This header supports HD and AC'97 audio front panel connector.



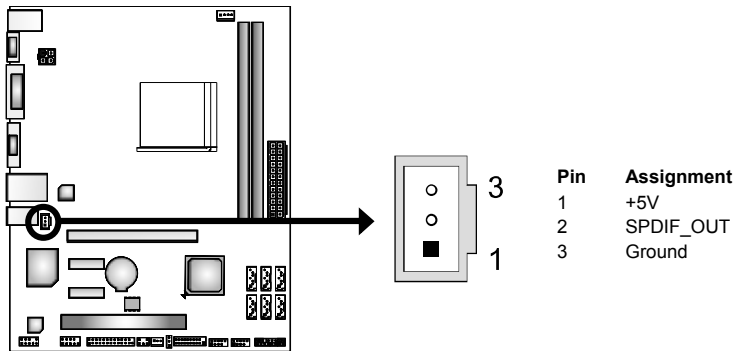
HD Audio		AC'97	
Pin	Assignment	Pin	Assignment
1	Mic Left in	1	Mic In
2	Ground	2	Ground
3	Mic Right in	3	Mic Power
4	GPIO	4	Audio Power
5	Right line in	5	RT Line Out
6	Jack Sense	6	RT Line Out
7	Front Sense	7	Reserved
8	Key	8	Key
9	Left line in	9	LFT Line Out
10	Jack Sense	10	LFT Line Out

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

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

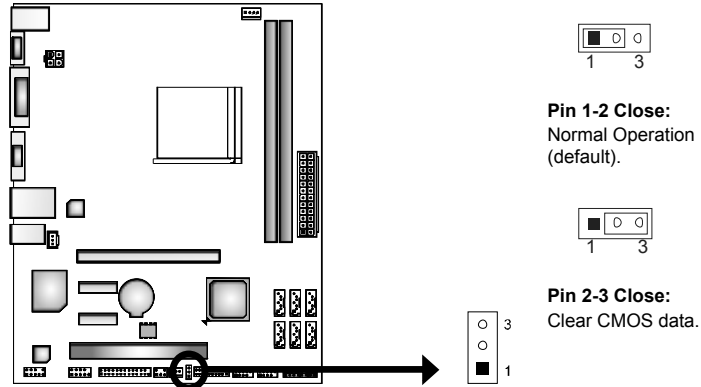
### JSPDIFOUT1: Digital Audio-out Connectors

The JSPDIFOUT1 is for connecting the PCI bracket SPDIF output.



### JCMOS1: Clear CMOS Header

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

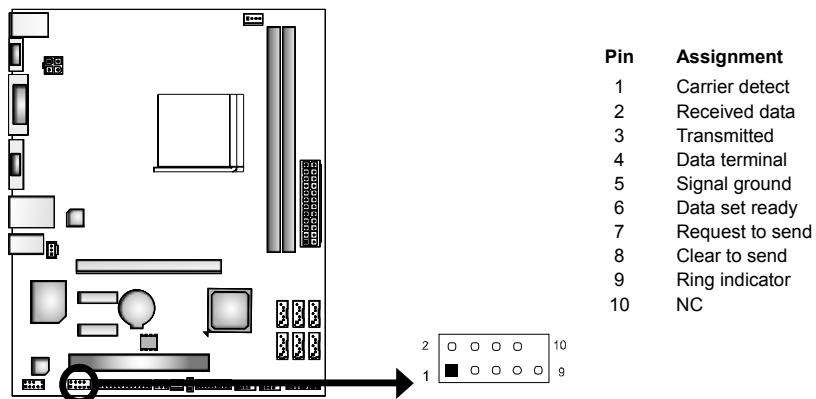


#### ※ Clear CMOS Procedures:

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

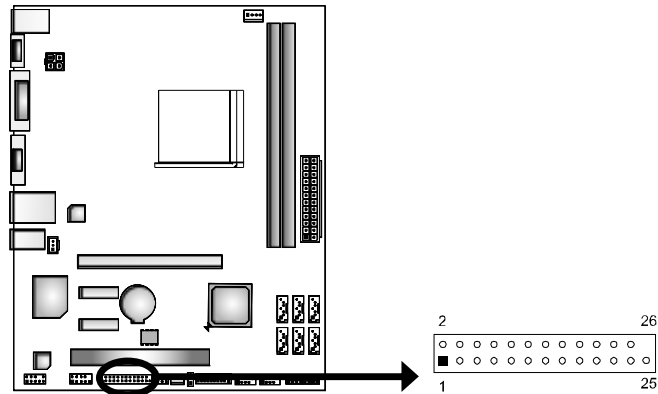
### J\_COM1: Serial Port Connector

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



### J\_PRINT1: Printer Port Connector

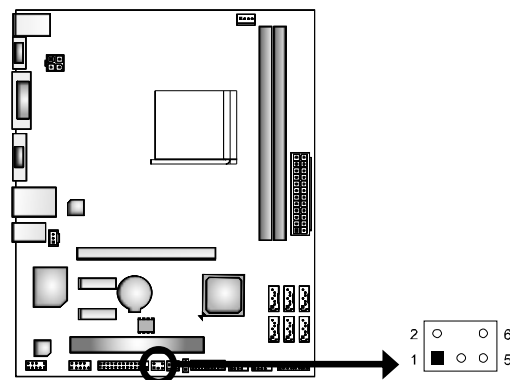
This header allows you to connector printer on the PC.



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

### CIR1: Consumer IR Connector

This header is for infrared remote control and communication.



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

## CHAPTER 4: AMD DUAL GRAPHICS TECHNOLOGY

### 4.1 AMD DUAL GRAPHICS TECHNOLOGY INTRODUCTION

When user adds a PCIE display adapter, it can be integrated with IGD to show better performance. To make the two video devices work simultaneously and normally, please refer to the following setting.

### 4.2 AMD DUAL GRAPHICS REQUIREMENT

- Operating System: Windows Vista / Windows 7 / Windows 8
- Supported Dual Graphics Combinations:

AMD Radeon™ Graphics Card	A10-Series HD 7660D	A8-Series HD7560D	A6-Series HD 7540D
HD 6670	●	●	
HD 6570	●	●	●
HD 6450			●
● Recommended graphics cards for AMD dual-graphics			

**Note 1:** A4-Series products do not support Dual Graphics.

**Note 2:** The information described above in this manual is for your reference only and the actual information and settings on board may be different from this manual. For further AMD Dual Graphics information, please visit the following website: <http://www.amd.com>

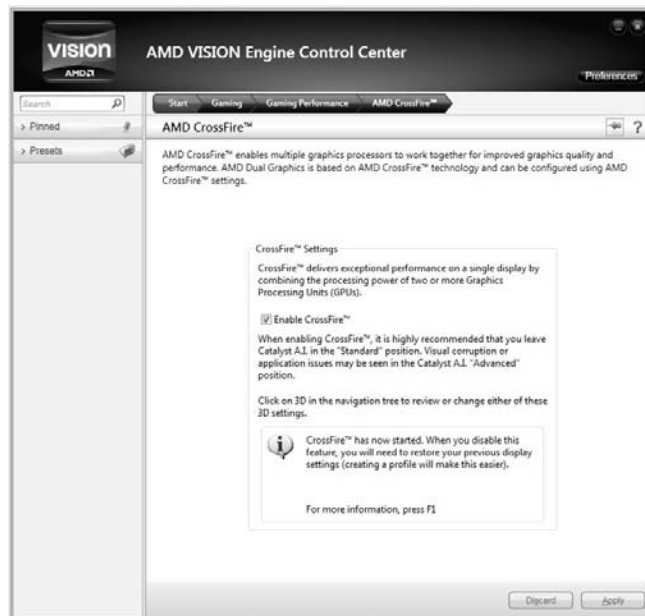
### 4.3 AMD DUAL GRAPHICS SETUP

**Step 1:** Insert Dual Graphics-Ready graphics card into PEX16\_1 slot.

**Step 2:** Set the BIOS setting as follows:  
[Chipset]→[North Bridge]→[Surround View]→[Auto]



**Step 3:** Install Driver DVD Chipset Driver, and reboot the system. Activate AMD VISION Engine Control Center to make sure CrossFire has been enabled.



## CHAPTER 5: RAID FUNCTIONS

### 5.1 OPERATING SYSTEM

Supports Windows Vista, Windows 7 and Windows 8.

### 5.2 RAID ARRAYS

RAID supports the following types of RAID arrays:

**RAID 0:** RAID 0 defines a disk striping scheme that improves disk read and write times for many applications.

**RAID 1:** RAID 1 defines techniques for mirroring data.

**RAID 10:** RAID 10 combines the techniques used in RAID 0 and RAID 1.

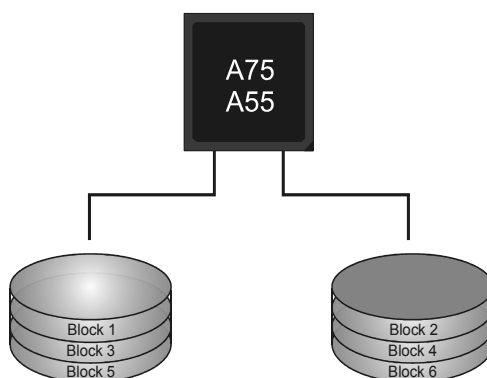
### 5.3 How RAID WORKS

#### **RAID 0:**

The controller “stripes” data across multiple drives in a RAID 0 array system. It breaks up a large file into smaller blocks and performs disk reads and writes across multiple drives in parallel. The size of each block is determined by the stripe size parameter, which you set during the creation of the RAID set based on the system environment. This technique reduces overall disk access time and offers high bandwidth.

#### **Features and Benefits**

- **Drives:** Minimum 2, and maximum is up to 6 or 8. Depending on the platform.
- **Uses:** Intended for non-critical data requiring high data throughput, or any environment that does not require fault tolerance.
- **Benefits:** provides increased data throughput, especially for large files. No capacity loss penalty for parity.
- **Drawbacks:** Does not deliver any fault tolerance. If any drive in the array fails, all data is lost.
- **Fault Tolerance:** No.
- **Total Capacity:** (Minimal. HDD Capacity) x (Connected HDDs Amount)



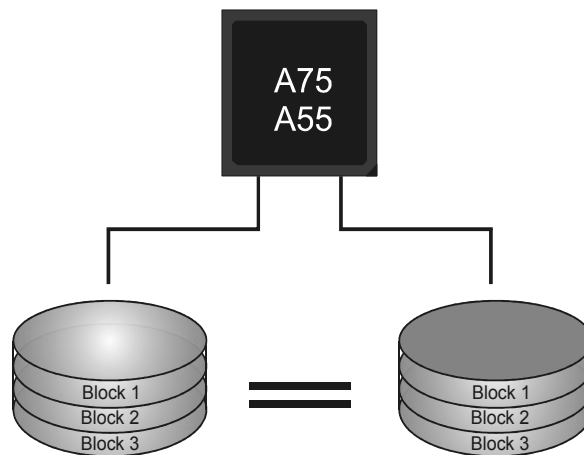
**RAID 1:**

Every read and write is actually carried out in parallel across 2 disk drives in a RAID 1 array system. The mirrored (backup) copy of the data can reside on the same disk or on a second redundant drive in the array. RAID 1 provides a hot-standby copy of data if the active volume or drive is corrupted or becomes unavailable because of a hardware failure.

RAID techniques can be applied for high-availability solutions, or as a form of automatic backup that eliminates tedious manual backups to more expensive and less reliable media.

**Features and Benefits**

- **Drives:** Minimum 2, and maximum is 2.
- **Uses:** RAID 1 is ideal for small databases or any other application that requires fault tolerance and minimal capacity.
- **Benefits:** Provides 100% data redundancy. Should one drive fail, the controller switches to the other drive.
- **Drawbacks:** Requires 2 drives for the storage space of one drive. Performance is impaired during drive rebuilds.
- **Fault Tolerance:** Yes.

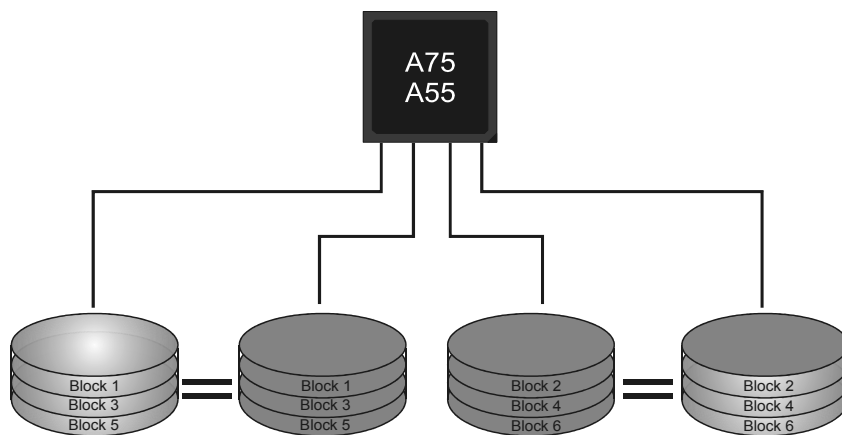


**RAID 10:**

RAID 1 drives can be striped using RAID 0 techniques. Resulting in a RAID 10 solution for improved resiliency, performance and rebuild performance.

**Features and Benefits**

- **Drives:** Minimum 4, and maximum is 6 or 8, depending on the platform.
- **Benefits:** Optimizes for both fault tolerance and performance, allowing for automatic redundancy. May be simultaneously used with other RAID levels in an array, and allows for spare disks.
- **Drawbacks:** Requires twice the available disk space for data redundancy, the same as RAID level 1.
- **Fault Tolerance:** Yes.





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## CHAPTER 6: USEFUL HELP

### 6.1 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/>

## 6.2 SOFTWARE

### Installing Software

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

### Launching Software

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

### eHot-Line (Optional)

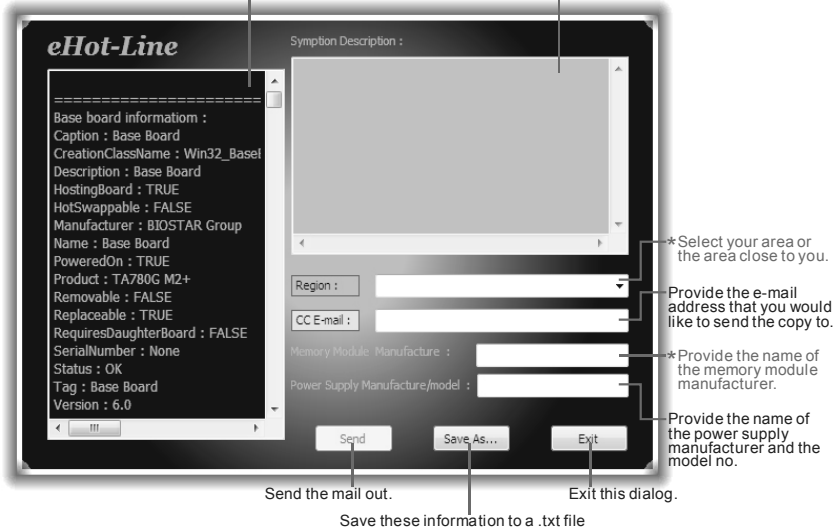
eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.

 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.



The screenshot shows the eHot-Line utility window. On the left, a text area displays system information: Base board information: Caption: Base Board, CreationClassName: Win32\_Base, Description: Base Board, HostingBoard: TRUE, HotSwappable: FALSE, Manufacturer: BIOSTAR Group, Name: Base Board, PoweredOn: TRUE, Product: TA780G M2+, Removable: FALSE, Replaceable: TRUE, RequiresDaughterBoard: FALSE, SerialNumber: None, Status: OK, Tag: Base Board, Version: 6.0. On the right, there is a 'Symptom Description' text area, a 'Region' dropdown menu, a 'CC E-mail' text field, and two more text fields for 'Memory Module Manufacture' and 'Power Supply Manufacture/model'. At the bottom are 'Send', 'Save As...', and 'Exit' buttons. Annotations with arrows point to these elements: the left text area, the symptom description area, the Region dropdown, the CC E-mail field, the Memory Module Manufacture field, the Power Supply Manufacture/model field, the Send button, the Save As... button, and the Exit button.

\*Select your area or the area close to you.

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

\*Provide the name of the memory module manufacturer.

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

Send the mail out.

Save these information to a .txt file

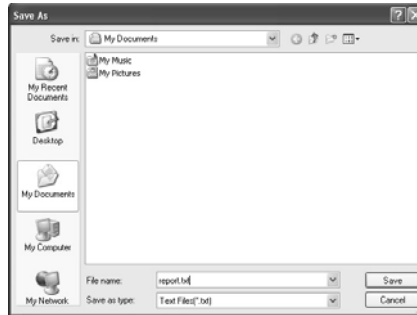
Exit this dialog.

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.



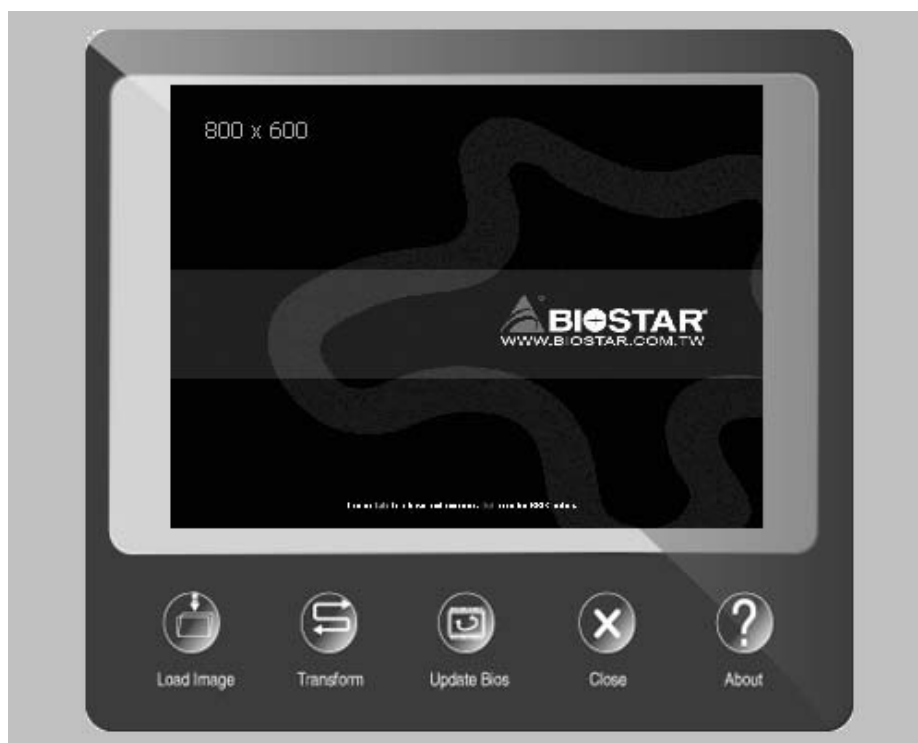
**We will not share customer’s data with any other third parties**, so please feel free to provide your system information while using eHot-Line service.



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.

### **BIOScreen Utility (Optional)**

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:

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

### 6.3 BIOS UPDATE

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

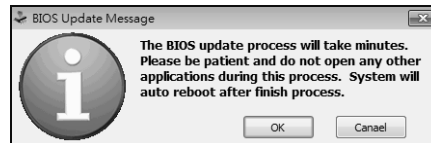
#### 1. BIOS Update Utility

1. Installing BIOS Update Utility from the DVD Driver.
2. Download the proper BIOS from [www.biostar.com.tw](http://www.biostar.com.tw).

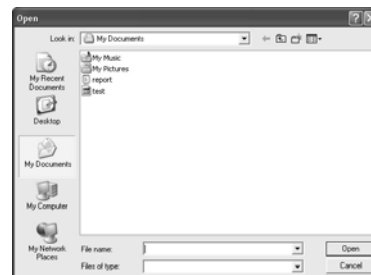
3. Open BIOS Update Utility and click the **Update BIOS** button on the main screen.



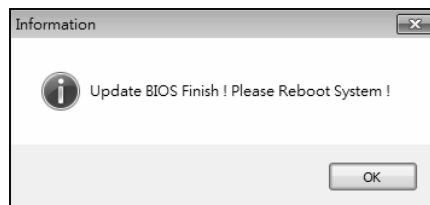
4. A warning message will show up to request your agreement to start the BIOS update. Click **OK** to start the update procedure.



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.

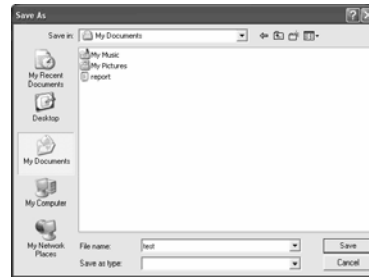


7. While the system boots up and the full screen logo shows up, please press the **Del** <Delete> key to enter BIOS setup.

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.

### 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**.



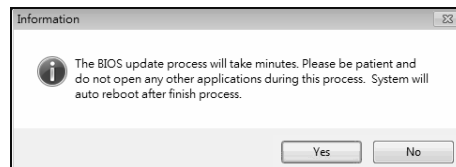
## 2. Online Update Utility

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

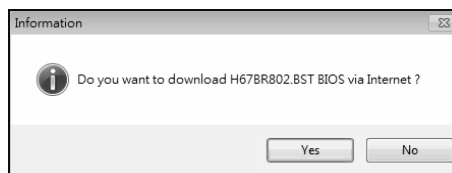
3. Open BIOS Update Utility and click the **Online Update** button on the main screen.



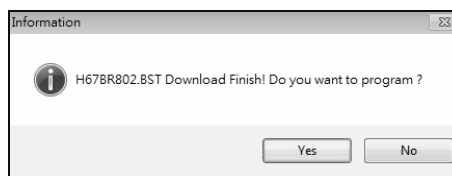
4. An open dialog will show up to request your agreement to start the BIOS update. Click **Yes** to start the online update procedure.



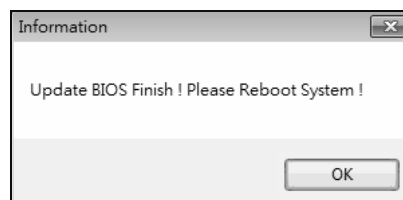
5. If there is a new BIOS version, the utility will ask you to download it. Click **Yes** to proceed.




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



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



8. While the system boots up and the full screen logo shows up, press  <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.



- This utility only allows storage device with FAT32/16 format and single partition.
- Shutting down or resetting the system while updating the BIOS will lead to system boot failure.

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.

#### 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  <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.



All the information and content above about 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.

## 6.4 EXTRA INFORMATION

### CPU Overheated

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

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

In this case, please double check:

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

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

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

Or you can:

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

## 6.5 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)

## 6.6 TROUBLESHOOTING

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

## APPENDIX: SPEC IN OTHER LANGUAGES

## ARABIC

المواصفات	
المأخذ FM 2 لمعالج ايه إم دي AMD تسلسل A / تسلسل E 2 الحد الأقصى للطاقة الحرارية في تصميم المعالج ( thermal design power – TDP ) : 100 واط. * يرجى الرجوع إلى الموقع <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> لقائمة دعم المعالج CPU.	قاعدة وحدة المعالجة المركزية
ايه إم دي AMD A75 FCH (TA75MH2)   ايه إم دي AMD A55 FCH (A55MH2)	مجموعة الشرائح
تدعم قناة مزدوجة دي. دي. ار. DDR3 / 800 / 1066 / 1333 / 1600 / 1866 X2 دي. دي. ار. DDR3 قنحت الذاكرة المزدوجة DIMM، تتحمل كحد أقصى 32 جيجابايت ذكرة كل فتحة مزدوجة DIMM تتحمل دون ECC 512 ميجا بايت 16/8/4/2/1 جيجابايت دي. دي. ار. DDR3 * يرجى الرجوع إلى الموقع <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> لقائمة دعم الذاكرة.	الذاكرة
ايه إم دي AMD A75 FCH : وصلة x 6 SATA جيجا بايت / الثانية تتحمل رايد AHCI / 10 / 1 / 0 RAID	التخزين
ايه إم دي AMD A55 FCH : وصلة x 6 SATA جيجا بايت / الثانية تتحمل رايد AHCI / 10 / 1 / 0 RAID	
ريالتيك رت ل REALTEK RTL 8111 F 10 / 100 / 1000 ميجابايت / الثانية ، تحديد تلقائي ، النصف / القدرة القصوى المزدوجة	شبكة محلية LAN
ALC662 5.1 قنوات عالية الدقة	الترميز الصوتي
ايه إم دي AMD A75 FCH منفذ x 4 نقل متسلسل عام USB 3.0 ( 2 في المداخل والمخرج الخلفية و 2 من خلال الموزع الداخلي ) منفذ x 6 نقل متسلسل عام USB 2.0 ( 2 في المداخل والمخرج الخلفية و 4 من خلال الموزع الداخلي )	نقل متسلسل عام USB
ايه إم دي AMD A55 FCH منفذ x 8 نقل متسلسل عام USB 2.0 ( 4 في المداخل والمخرج الخلفية و 4 من خلال الموزع الداخلي )	
1 x فتحة منفذ الملحقات الإضافية PCI 2 x فتحة منفذ الملحقات الإضافية PCIe 2.0 x 1 1 x فتحة منفذ الملحقات الإضافية PCIe 2.0 x 16	فتحات التوسع
<b>A55MH2</b> 1 x 2 PS/2 لوحة المفاتيح للكمبيوتر / الفأرة فتحة توصيل عدد 1 x HDMI وسيط متعدد العلي الوضوح فتحة توصيل عدد 1 x منظومة العرض المرني VGA فتحة توصيل عدد 1 x واجهة مرئية رقمية DVI فتحة لتوصيل عدد 1 x الشبكة المحلية LAN فتحة توصيل عدد 4 x نقل متسلسل عام USB 2.0 فتحة توصيل عدد 3 x جك للصوت	<b>TA75MH2</b> 1 x 2 PS/2 لوحة المفاتيح للكمبيوتر / الفأرة فتحة توصيل عدد 1 x HDMI وسيط متعدد العلي الوضوح فتحة توصيل عدد 1 x منظومة العرض المرني VGA فتحة توصيل عدد 1 x واجهة مرئية رقمية DVI فتحة لتوصيل عدد 1 x الشبكة المحلية LAN فتحة توصيل عدد 2 x نقل متسلسل عام USB 2.0 فتحة توصيل عدد 2 x نقل متسلسل عام USB 3.0 فتحة توصيل عدد 3 x جك للصوت

## TA75MH2/A55MH2

المواصفات		
<b>A55MH2</b>	<b>TA75MH2</b>	المداخل والمخارج الداخلية
<p>وصلة 6 SATA x 3 جيجابايت / الثانية</p> <p>موزع 2 x نقل متسلسل عام USB 2.0 ( كل موزع يتحمل قحتين نقل متسلسل عام USB 2.0 )</p> <p>وصلة للطاقة 1 x 4 دبابيس</p> <p>وصلة للطاقة 1 x 24 نبوس</p> <p>وصلة 1 x مروحة تبريد وحدة المعالجة المركزية</p> <p>وصلة 1 x مرواح تبريد المنظومة</p> <p>موزع 1 x اللوحة الأممية</p> <p>موزع 1 x الصوت الأممي</p> <p>موزع 1 x سيموس مباشر</p> <p>موزع 1 x مستهلك IR</p> <p>موزع 1 x قحة للطبعة</p> <p>موزع 1 x قحة تسلسلية</p> <p>وصلة 1 x خارجية S/PDIF سوني فيليبس الواجهة الرقمية</p>	<p>وصلة 6 SATA x 6 جيجابايت / الثانية</p> <p>موزع 2 x نقل متسلسل عام USB 2.0 ( كل موزع يتحمل قحتين نقل متسلسل عام USB 2.0 )</p> <p>موزع 1 x نقل متسلسل عام USB 3.0 ( كل موزع يتحمل قحتين نقل متسلسل عام USB 3.0 )</p> <p>وصلة للطاقة 1 x 4 دبابيس</p> <p>وصلة للطاقة 1 x 24 نبوس</p> <p>وصلة 1 x مروحة تبريد وحدة المعالجة المركزية</p> <p>وصلة 1 x مرواح تبريد المنظومة</p> <p>موزع 1 x اللوحة الأممية</p> <p>موزع 1 x الصوت الأممي</p> <p>موزع 1 x سيموس مباشر</p> <p>موزع 1 x مستهلك IR</p> <p>موزع 1 x قحة للطبعة</p> <p>موزع 1 x قحة تسلسلية</p> <p>وصلة 1 x خارجية S/PDIF سوني فيليبس الواجهة الرقمية</p>	
عامل شكل مدد التكنولوجيا المتقدمة microATX ، 244 x 200 مم		عامل الشكل
ويندوز إكس بي windows xp / ويندوز فيستا / ويندوز 7 / ويندوز 8 بيوستار BIOSTAR تحتفظ بحق إضافة أو إزالة الدعم لأي نظام تشغيل مع أو بدون أخطار.		أنظمة التشغيل المدعومة

**FRENCH**

Spécifications	
Support Unité Centrale	Interface de connexion FM2 pour série A AMD/processeur série E2 Enveloppe thermique Unité Centrale maximum : 100Watt * Veuillez vous reporter à <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> pour la liste des supports modèles d'Unité Centrale.
Jeu de puces	AMD A75 FCH (TA75MH2)      AMD A55 FCH (A55MH2)
Mémoire	Supporte mémoire DDR3 double canal 800/ 1066/ 1333/ 1600/ 1866 Banc de mémoire 2 x DDR3 DIMM, Supporte max. jusqu'à une mémoire de 32 GB Chaque module DIMM supporte module DDR3 non-ECC 512MB/ 1/ 2/ 4/ 8/ 16 GB * Veuillez vous reporter à <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> pour la liste des soutien de la mémoire.
Stockage	AMD A75 FCH Connecteur 6 x SATA 6Gb/s Supporte système RAID 0,1,10 & AHCI AMD A55 FCH Connecteur 6 x SATA 3Gb/s Supporte système RAID 0,1,10 & AHCI
Réseau local	Realtek RTL 8111F 10/ 100/ 1000 Mb/s auto négociation, capacité bidirectionnelle à l'alternat / bidirectionnelle simultanée
Codec audio	ALC662 Canaux 5.1, écoute audio de haute définition
USB	AMD A75 FCH Port 4x USB 3.0 (2 sur les I/O arrières et 2 en interne) Port 6x USB 2.0 (2 sur les I/O arrières et 4 en interne) AMD A55 FCH Port 8x USB 2.0 (4 sur les I/O arrières et 4 en interne)
Connecteur d'extension	1x Fente PCI 2x PCIe 2.0 x1 Fente 1x PCIe 2.0 x16 Fente
I/O arrières	<b>TA75MH2</b> 1x PS/2 Clavier/ Souris 1x Port HDMI 1x Port VGA 1x Port DVI 1x port LAN 2x Port USB 2.0 2x Port USB 3.0 3x entrées audio <b>A55MH2</b> 1x PS/2 Clavier/ Souris 1x Port HDMI 1x Port VGA 1x Port DVI 1x port LAN 4x Port USB 2.0 3x entrées audio

Spécifications		
I/O en interne	<p><b>TA75MH2:</b></p> <ul style="list-style-type: none"> <li>6x Connecteur SATA 6.0Gb/s</li> <li>2x embases USB 2.0 (chaque embase supporte 2 Ports USB 2.0)</li> <li>1x embase USB 3.0 (chaque embase supporte 2 Ports USB 3.0)</li> <li>1x 4-Broche de carte</li> <li>1x 24-Broche de carte</li> <li>1x Connecteur ventilateur unité centrale</li> <li>1x Connecteur ventilateur système</li> <li>1x Fiche panneau avant</li> <li>1x Fiche audio avant</li> <li>1x Fiche mémoire CMOS vide</li> <li>1x Fiche Registre d'état Consommateur</li> <li>1x Embase port imprimante</li> <li>1x Embase port série</li> <li>1x Connecteur sortie S/PDIF</li> </ul>	<p><b>A55MH2:</b></p> <ul style="list-style-type: none"> <li>6x Connecteur SATA 3.0Gb/s</li> <li>2x embases USB 2.0 (chaque embase supporte 2 Ports USB 2.0)</li> <li>1x 4-Broche de carte</li> <li>1x 24-Broche de carte</li> <li>1x Connecteur ventilateur unité centrale</li> <li>1x Connecteur ventilateur système</li> <li>1x Fiche panneau avant</li> <li>1x Fiche audio avant</li> <li>1x Fiche mémoire CMOS vide</li> <li>1x Fiche Registre d'état Consommateur</li> <li>1x Embase port imprimante</li> <li>1x Embase port série</li> <li>1x Connecteur sortie S/PDIF</li> </ul>
Facteur d'encombrement	Facteur d'encombrement microATX, 244 mm x 200 mm	
Support SE	Windows XP / Vista / 7/ 8 Biostar se réserve le droit d'ajouter ou d'enlever le support pour toute SE avec ou sans préavis.	

**GERMAN**

Spezifikationen		
CPU-Unterstützung	Anschluss-FM2 für AMD A-Serie/ E2-Serie-Prozessor Maximale CPU TDP (Thermal Design Power): 100 Watt * Bitte konsultieren Sie <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> für CPU-Unterstützungsliste	
Chipset	AMD A75 FCH (TA75MH2)	AMD A55 FCH (A55MH2)
Festplattenspeicher	Unterstützt zweikanaliges DDR3 800/ 1066/ 1333/ 1600/ 1866 2 x DDR3 DIMM-SpeicherSlot, Max. Unterstützung bis zu 32 GB-Speicher Jedes DIMM unterstützt nicht-ECC 512MB/ 1/ 2/ 4/ 8/ 16 GB DDR3-Module * Bitte konsultieren Sie <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> für Speicherunterstützung Liste.	
Arbeitsspeicher	AMD A75 FCH: 6x SATA 6Gb-Verbindung Unterstützt RAID 0,1,10 & AHCI	AMD A55 FCH: 6x SATA 3Gb-Verbindung Unterstützt RAID 0,1,10 & AHCI
LAN	Realtek RTL 8111F 10/ 100/ 1000 Mb Auto-Negotiation, Halb- / Voll-Duplex-fähig	
Audio-Codec	ALC662 5.1 Kanäle, HD-Audio	
USB	AMD A75 FCH: 4x USB 3.0-Port (2 hintere I/Os und 2 via interne Header) 6x USB 2.0-Port (2 hintere I/Os und 4 via interne Header)	AMD A55 FCH: 8x USB 2.0-Port (4 hintere I/Os und 4 via interne Header)
Erweiterungsanschlüsse	1x PCI-Slot 2x PCIe 2.0 x1-Slot 1x PCIe 2.0 x16-Slot	
Hintere I/Os	<b>TA75MH2:</b> 1x PS/2-Keyboard/ Maus 1x HDMI-Port 1x VGA-Port 1x DVI-Port 1x LAN-Port 2x USB 2.0-Port 2x USB 3.0-Port 3x Audio Jack	<b>A55MH2:</b> 1x PS/2-Keyboard/ Maus 1x HDMI-Port 1x VGA-Port 1x DVI-Port 1x LAN-Port 4x USB 2.0-Port 3x Audio Jack



## TA75MH2/A55MH2

Spezifikationen		
Interne I/Os	<b>TA75MH2:</b> 6x SATA 6.0Gb/s-Verbindung 2x USB 2.0-Header (jeder Header unterstützt 2 USB 2.0-Ports) 1x USB 3.0-Header (jeder Header unterstützt 2 USB 3.0-Ports) 1x 4-Pin-Stromverbindung 1x 24-Pin-Stromverbindung 1x CPU-Ventilatorverbindung 1x System-Ventilatorverbindung 1x Header für Frontpanel 1x Header für Frontaudio 1x Header für klares CMOS 1x Consumer IR-Header 1x Header für Druckerport 1x Serieller Port-Header 1x S/PDI-Auswurfsverbindung	<b>A55MH2:</b> 6x SATA 3.0Gb/s-Verbindung 2x USB 2.0-Header (jeder Header unterstützt 2 USB 2.0-Ports) 1x 4-Pin-Stromverbindung 1x 24-Pin-Stromverbindung 1x CPU-Ventilatorverbindung 1x System-Ventilatorverbindung 1x Header für Frontpanel 1x Header für Frontaudio 1x Header für klares CMOS 1x Consumer IR-Header 1x Header für Druckerport 1x Serieller Port-Header 1x S/PDI-Auswurfsverbindung
	Formfaktor	microATX Formfaktor, 244 mm x 200 mm
OS-Unterstützung	Windows XP / Vista / 7/ 8 Biostar reserves the right to add or remove support for any OS with or without notice.	

**ITALIAN**

Specificazioni		
Supporto processore	Slot FM2 per processore AMD serie-A / serie – E2 Alimentazione di Proiezione Termico (TDP – Thermal Design Power): 100Watt * Si prega di consultare <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> per la lista di supporto del processore.	
Tipo scheda	AMD A75 FCH (TA75MH2)      AMD A55 FCH (A55MH2)	
Memoria	Supporta DDR3 800/ 1066/ 1333/ 1600/ 1866 Doppio Canale 2 x DDR3 DIMM Slot di Memoria Supporta fino a 32 GB Memoria Ogni DIMM supporta non-ECC 512MB/ 1/ 2/ 4/ 8/ 16 GB DDR3 moduli * Si prega di consultare <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> per la lista di supporto del memoria.	
Memorizzazione	AMD A75 FCH: Connettore 6x SATA 6Gb/s Supporta RAID 0,1,10 & AHCI	AMD A55 FCH: Connettore 6x SATA 3Gb/s Supporta RAID 0,1,10 & AHCI
Catena	Realtek RTL 8111F 10/ 100/ 1000 Mb auto negoziazione, capacita di duplex Meta / Completo	
Codec Audio	ALC662 Canali Audio di Alta Definizione 5.1	
USB	Piattaforma AMD A75 FCH: Slot 4x USB 3.0 (2 nei ingressi/ uscite posteriore e 2 da distributori interni) Slot 6x USB 2.0 (2 nei ingressi/ uscite posteriore e 4 da distributori interni)	Piattaforma AMD A55 FCH: Slot 8x USB 2.0 (4 nei ingressi/ uscite posteriore e 4 da distributori interni)
Slot di espansione	Slot 1x PCI Slot 2x PCIe 2.0 x1 Slot 1x PCIe 2.0 x16	
Ingressi/ Uscite Posteriore	<b>TA75MH2:</b> Tastiera/ Mouse 1x PS/2 Slot 1x HDMI Slot 1x VGA Slot 1x DVI Slot 1x LAN Slot 4x USB 2.0 Slot 2x USB 3.0 Jack audio 3x	<b>A55MH2:</b> Tastiera/ Mouse 1x PS/2 Slot 1x HDMI Slot 1x VGA Slot 1x DVI Slot 1x LAN Slot 4x USB 2.0 Jack audio 3x

## TA75MH2/A55MH2

Specificazioni		
Ingressi/ Uscite Interni	<p><b>TA75MH2:</b></p> <p>Connettore 6x SATA 6.0Gb/s</p> <p>Distributore 2x USB 2.0(ogni distributore supporta 2 slot USB 2.0)</p> <p>Distributore 1x USB 3.0(ogni distributore supporta 2 slot USB 3.0)</p> <p>Connettore con 4 pin x1</p> <p>Connettore con 24 pin x1</p> <p>Connettore Ventilatore processore x1</p> <p>Connettore Ventilatore Sistema x1</p> <p>Distributore Pannello Frontale x1</p> <p>Distributore Audio Frontale x1</p> <p>Distributore CMOS Diretto x1</p> <p>Distributore Consumabile IR x1</p> <p>Distributore Slot Stampante x1</p> <p>Distributore Slot Serie x1</p> <p>Connettore esterno S/PDIF x1</p>	<p><b>A55MH2:</b></p> <p>Connettore 6x SATA 3.0Gb/s</p> <p>Distributore 2x USB 2.0(ogni distributore supporta 2 slot USB 2.0)</p> <p>Connettore con 4 pin x1</p> <p>Connettore con 24 pin x1</p> <p>Connettore Ventilatore processore x1</p> <p>Connettore Ventilatore Sistema x1</p> <p>Distributore Pannello Frontale x1</p> <p>Distributore Audio Frontale x1</p> <p>Distributore CMOS Diretto x1</p> <p>Distributore Consumabile IR x1</p> <p>Distributore Slot Stampante x1</p> <p>Distributore Slot Serie x1</p> <p>Connettore esterno S/PDIF x1</p>
Fattore di Forma	Fattore di Forma microATX, 244 mm x 200 mm	
Supporto SO	<p>Windows XP / Vista / 7/ 8</p> <p>Biostar si riserva il diritto di aggiungere o ritirare il supporto per qualsiasi SO con o senza preavviso.</p>	

## JAPANESE

仕様		
CPU サポート	AMD A-シリーズ/ E2-シリーズ プロセッサの Socket FM2 最大 CPU TDP (Thermal Design Power 最大放熱量) :100 W *CPU サポート リストについては、 <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> を参照してください。	
チップセット	AMD A75 FCH (TA75MH2)      AMD A55 FCH (A55MH2)	
メモリ	デュアルチャンネル DDR3 800/ 1066/ 1333/ 1600/ 1866 をサポート 2 x DDR3 DIMM メモリ スロット、最大 32 GB メモリまでサポート 各 DIMM は、非-ECC 512MB/ 1/ 2/ 4/ 8/ 16 GB DDR3 モジュールをサポートしています *サポートされているメモリのリストについては、 <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> を参照してください。	
保存スペース	AMD A75 FCH: 6x SATA 6Gb/s コネクタ RAID 0,1,10 & AHCI のサポート	AMD A55 FCH: 6x SATA 3Gb/s コネクタ RAID 0,1,10 & AHCI のサポート
LAN	Realtek RTL 8111F 10/ 100/ 1000 Mb/s オートネゴシエーション、半/全 二重通信	
オーディオ コーデック	ALC662 5.1 チャンネル, ハイ デフィニション オーディオ	
USB	AMD A75 FCH: 4x USB 3.0 ポート (後部 I/O に2つ 及び 内蔵 ヘッダー経由に2つ) 6x USB 2.0 ポート (後部 I/O に2つ 及び 内蔵ヘッダー経由に4つ)	AMD A55 FCH: 8x USB 2.0 ポート (後部 I/O に4つ 及び 内蔵ヘッダー経由に4つ)
拡張スロット	1x PCI スロット 2x PCIe 2.0 x1 スロット 1x PCIe 2.0 x16 スロット	
後部 I/O	<b>TA75MH2:</b> 1x PS/2 キーボード/マウス 1x HDMI ポート 1x VGA ポート 1x DVI ポート 1x LAN ポート 2x USB 2.0 ポート 2x USB 3.0 ポート 3x オーディオ ジャック	<b>A55MH2:</b> 1x PS/2 キーボード/マウス 1x HDMI ポート 1x VGA ポート 1x DVI ポート 1x LAN ポート 4x USB 2.0 ポート 3x オーディオ ジャック

**TA75MH2/A55MH2**

仕様		
内蔵 I/O	<b>TA75MH2:</b>	<b>A55MH2:</b>
	6x SATA 6.0Gb/s コネクタ 2x USB 2.0 ヘッダー (各ヘッダーは、2つの USB 2.0 ポートをサポートしています) 1x USB 3.0 ヘッダー (各ヘッダーは、2つの USB 3.0 ポートをサポートしています) 1x 4-Pin パワー コネクタ 1x 24-Pin パワー コネクタ 1x CPU ファン コネクタ 1x システム ファン コネクタ 1x フロント パネル ヘッダー 1x フロント オーディオ ヘッダー 1x クリア CMOS ヘッダー 1x コンシューマー IR ヘッダー 1x プリンター ポート ヘッダー 1x シリアル ポート ヘッダー 1x S/PDIF アウト コネクタ	6x SATA 3.0Gb/s コネクタ 2x USB 2.0 ヘッダー (各ヘッダーは、2つの USB 2.0 ポートをサポートしています) 1x 4-Pin パワー コネクタ 1x 24-Pin パワー コネクタ 1x CPU ファン コネクタ 1x システム ファン コネクタ 1x フロント パネル ヘッダー 1x フロント オーディオ ヘッダー 1x クリア CMOS ヘッダー 1x コンシューマー IR ヘッダー 1x プリンター ポート ヘッダー 1x シリアル ポート ヘッダー 1x S/PDIF アウト コネクタ
フォーム ファクタ	microATX フォーム ファクタ、244 mm x 200 mm	
サポート OS	Windows XP / Vista / 7/ 8 Biostar には、通知なしでサポート OS を変更する権限がありません。	

**POLISH**

Specyfikacje techniczne		
Obsługa procesora	Gniazdo procesora (Socket) FM2 dla procesorów AMD seria-A / seria – E2 Moc Wydzielanego Ciepła (TDP - Thermal Design Power): 100Watt * Proszę sprawdzić listę obsługiwanych procesorów na stronie internetowej <a href="http://www.biostar.com.tw">www.biostar.com.tw</a>	
Rodzaj płyty	AMD A75 FCH (TA75MH2)	AMD A55 FCH (A55MH2)
Pamięć	Obsługa pamięci DDR3 800/ 1066/ 1333/ 1600/ 1866 Dwukanałowa 2 x DDR3 DIMM Pamięć Gniazda procesora (Slot), Maksymalna wielkość pamięci 32 GB Każdy DIMM obsługuje jeden moduł non-ECC 512MB/ 1/ 2/ 4/ 8/ 16 GB DDR3 * Proszę sprawdzić listę obsługiwanych pamięć na stronie internetowej <a href="http://www.biostar.com.tw">www.biostar.com.tw</a>	
Przechowywanie	AMD A75 FCH: Złącze 6x SATA 6Gb/s Obsługa RAID 0,1,10 & AHCI	AMD A55 FCH: Złącze 6x SATA 3Gb/s Obsługa RAID 0,1,10 & AHCI
LAN	Układ RTL 8111F 10/ 100/ 1000 Mb auto negocjacja, pojemność duplex Połowe / Pełny	
Codec Audio	ALC662 Kanały Audio wysokiej Definicji 5.1	
USB	Płyta AMD A75 FCH: 4 x złącza USB 3.0 (2 przez tylne porty wejścia/ wyjścia oraz 2 przez wewnętrzne porty) 6 x złącza USB 2.0 (2 przez tylne porty wejścia/ wyjścia oraz 4 przez wewnętrzne porty)	Płyta AMD A55 FCH: 8 x złącza USB 2.0 (4 przez tylne porty wejścia/ wyjścia oraz 4 przez wewnętrzne porty)
Złącza rozszerzeń	złącza 1x PCI (Slot) złącze 2x PCIe 2.0 x1 (Slot) złącza 1x PCIe 2.0 x16 (Slot)	
Tylne porty wejścia/ wyjścia	<b>TA75MH2:</b> Klawiatura/ Myszka 1x PS/2 Port 1x HDMI (gniazdo) Port 1x VGA Port 1x DVI Port 1x LAN Porty 2x USB 2.0 Porty 2x USB 3.0 Porty audio 3x	<b>A55MH2:</b> Klawiatura/ Myszka 1x PS/2 Port 1x HDMI (gniazdo) Port 1x VGA Port 1x DVI Port 1x LAN Porty 4x USB 2.0 Porty audio 3x

## TA75MH2/A55MH2

Specyfikacje techniczne		
Wewnętrzne porty wejścia/ wyjścia	<b>TA75MH2:</b> Złącza 6x SATA 6.0Gb/s Złącza 2x USB 2.0 (każde złącze obsługuje dodatkowe 2 porty USB 2.0) Złącze 1x USB 3.0 (każde złącze obsługuje dodatkowe 2 porty USB 3.0) Złącza 4 pionowe x 1 Złącza 24 pionowe x 1 Złącze wentylatora CPU x 1 Złącze wentylatora obudowy x 1 Złącze przedniego panelu x1 Złącze audio przedniego panelu x1 Złącze bezpośrednie CMOS x1 Złącze konsument IR x1 Złącze port drukarki x1 Port szeregowy x1 Port zewnętrzny S/PDIF x1	<b>A55MH2:</b> Złącza 6x SATA 3.0Gb/s Złącza 2x USB 2.0 (każde złącze obsługuje dodatkowe 2 porty USB 2.0) Złącza 4 pionowe x 1 Złącza 24 pionowe x 1 Złącze wentylatora CPU x 1 Złącze wentylatora obudowy x 1 Złącze przedniego panelu x1 Złącze audio przedniego panelu x1 Złącze bezpośrednie CMOS x1 Złącze konsument IR x1 Złącze port drukarki x1 Port szeregowy x1 Port zewnętrzny S/PDIF x1
	Obudowa	Obudowa microATX, 244 mm x 200 mm
Obsługa OS	Windows XP / Vista / 7/ 8 Biostar zastrzega sobie prawo do dodania lub wycofania obsługi dla OS, z wypowiedzeniem lub bez wypowiedzenia.	

**PORTUGUESE**

Especificações	
Suporte Processador	Porta FM2 para processador AMD série-A / série – E2 Alimentação de Design Térmico (TDP – Thermal Design Power): 100Watt * Por favor consulte <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> para obter uma lista de suporte do processador.
Tipo Placa Mãe	AMD A75 FCH (TA75MH2)      AMD A55 FCH (A55MH2)
Memória	Suporta DDR3 800/ 1066/ 1333/ 1600/ 1866 Canal Duplo 2 x DDR3 DIMM Slot de memória Suporta até 32 GB Memória Cada DIMM suporta non-ECC 512MB/ 1/ 2/ 4/ 8/ 16 GB DDR3 módulo * Por favor consulte <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> para obter uma lista de suporte do memória.
Armazenamento	AMD A75 FCH: Conector 6x SATA 6Gb/s Suporta RAID 0,1,10 & AHCI AMD A55 FCH: Conector 6x SATA 3Gb/s Suporta RAID 0,1,10 & AHCI
LAN	Realtek RTL 8111F 10/ 100/ 1000 Mb auto negociação, capacidade duplex Metade / Cheio
Codec de Audio	ALC662 Canais de Áudio de Alta Definição 5.1
USB	Plataforma AMD A75 FCH: Porta 4x USB 3.0 (2 nas entradas/saídas traseiras e 2 pelos Dispositivos internos) Porta 6x USB 2.0 (2 nas entradas/saídas traseiras e 4 pelos Dispositivos internos) Plataforma AMD A55 FCH: Porta 8x USB 2.0 (4 nas entradas/saídas traseiras e 4 pelos Dispositivos internos)
Slots de expansão	Porta 1x PCI Porta 2x PCIe 2.0 x1 Porta 1x PCIe 2.0 x16
Entradas/Saídas no painel traseiro	<b>TA75MH2:</b> Teclado/ Mouse 1x PS/2 Porta 1x HDMI Porta 1x VGA Porta 1x DVI Porta 1x LAN Porta 2x USB 2.0 Porta 2x USB 3.0 Soquete audio 3x <b>A55MH2:</b> Teclado/ Mouse 1x PS/2 Porta 1x HDMI Porta 1x VGA Porta 1x DVI Porta 1x LAN Porta 4x USB 2.0 Soquete audio 3x



## TA75MH2/A55MH2

Especificações	
Conectores na placa	<p><b>TA75MH2:</b></p> <ul style="list-style-type: none"> <li>Conector 6x SATA 6.0Gb/s</li> <li>Dispositivo 2x USB 2.0 (cada Dispositivo suporta 2 portas USB 2.0)</li> <li>Dispositivo 1x USB 3.0 (cada Dispositivo suporta 2 portas USB 3.0)</li> <li>Conector de 4 pinos x1</li> <li>Conector de 24 pinos x1</li> <li>Conector de Ventoinha processador x1</li> <li>Conector de Ventoinha Sistema x1</li> <li>Dispositivo Painel Frontal x1</li> <li>Dispositivo de Audio Frontal x1</li> <li>Dispositivo CMOS Direct x1</li> <li>Dispositivo Consumível IR x1</li> <li>Dispositivo Porta Impressora x1</li> <li>Dispositivo Porta Série x1</li> <li>Conector Externo S/PDIF x1</li> </ul> <p><b>A55MH2:</b></p> <ul style="list-style-type: none"> <li>Conector 6x SATA 3.0Gb/s</li> <li>Dispositivo 2x USB 2.0 (cada Dispositivo suporta 2 portas USB 2.0)</li> <li>Conector de 4 pinos x1</li> <li>Conector de 24 pinos x1</li> <li>Conector de Ventoinha processador x1</li> <li>Conector de Ventoinha Sistema x1</li> <li>Dispositivo Painel Frontal x1</li> <li>Dispositivo de Audio Frontal x1</li> <li>Dispositivo CMOS Direct x1</li> <li>Dispositivo Consumível IR x1</li> <li>Dispositivo Porta Impressora x1</li> <li>Dispositivo Porta Série x1</li> <li>Conector Externo S/PDIF x1</li> </ul>
Fator de Fôrma	Fator de Fôrma microATX, 244 mm x 200 mm
Suporte OS	Windows XP / Vista / 7/ 8 Biostar reserva seu direito de adicionar ou retirar o suporte para qualquer OS com ou sem notificação.

**RUSSIAN**

Спецификации		
Поддержка центрального процессора	Сокет FM2 для процессоров AMD серии A/ серии E2 Максимальный термopakет центрального процессора (TDP): 100 ватт * Перечень поддержки центрального процессора смотрите на <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> .	
Набор микросхем	AMD A75 FCH (TA75MH2)	AMD A55 FCH (A55MH2)
Память	Поддерживает двухканальный DDR3 800/ 1066/ 1333/ 1600/ 1866 2 гнезда платы памяти DDR3 DIMM, максимальная память до 32 Гб Каждый модуль DIMM поддерживает модуль не-ECC 512 Мб/ 1/ 2/ 4/ 8/ 16 Гб DDR3 * Перечень поддержки памяти смотрите на <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> .	
Накопитель	AMD A75 FCH: Соединитель 6x SATA 6 Гб/с Поддерживает RAID 0,1,10 & AHCI	AMD A55 FCH: Соединитель 6x SATA 3 Гб/с Поддерживает RAID 0,1,10 & AHCI
Локальная сеть	Realtek RTL 8111F Автоогласование 10/ 100/ 1000 Мб/с, работает в полно/полудуплексном режиме	
Аудиокодек	ALC662 Каналы 5.1, высококачественное аудио	
USB	AMD A75 FCH: 4 порта USB 3.0 (2 сзади ввода-вывода и 2 через внутренние контакты) 6 порта USB 2.0 (2 сзади ввода-вывода и 4 через внутренние контакты)	AMD A55 FCH: 8 портов USB 2.0 (4 сзади ввода-вывода и 4 через внутренние контакты)
Гнезда расшир.	1x гнезда PCI 2x PCIe 2.0 x1 гнездо 1x PCIe 2.0 x16 гнездо	
Задняя плата ввода-вывода	<b>TA75MH2:</b> 1 клавиатура/ мышь PS/2 1 порт HDMI 1 порт VGA 1 порт DVI 1 порт локальной сети 2 порта USB 2.0 2 порта USB 3.0 3 гнезд для подключения наушников	<b>A55MH2:</b> 1 клавиатура/ мышь PS/2 1 порт HDMI 1 порт VGA 1 порт DVI 1 порт локальной сети 4 порта USB 2.0 3 гнезд для подключения наушников

## TA75MH2/A55MH2

Спецификации		
Внутр. Плата ввода-вывода	<b>TA75MH2:</b> Соединитель 6x SATA 6 Гб/с 2 контакта USB 2.0 (каждый контакт поддерживает 2 порта USB 2.0) 1 контакт USB 3.0 (каждый контакт поддерживает 2 порта USB 3.0) 1 4-выводный разъем питания 1 24-выводный разъем питания 1 разъем вентилятора ЦП 1 разъема вентилятора системы 1 контакт передней панели 1 контакт передней аудиопанели 1 контакт микросхемы Clear CMOS 1 инфракрасный пользовательский контакт 1 контакт порта принтера 1 контакт последовательного порта 1 соединитель S/PDIF-Out	<b>A55MH2:</b> Соединитель 6x SATA 3 Гб/с 2 контакта USB 2.0 (каждый контакт поддерживает 2 порта USB 2.0) 1 4-выводный разъем питания 1 24-выводный разъем питания 1 разъем вентилятора ЦП 1 разъема вентилятора системы 1 контакт передней панели 1 контакт передней аудиопанели 1 контакт микросхемы Clear CMOS 1 инфракрасный пользовательский контакт 1 контакт порта принтера 1 контакт последовательного порта 1 соединитель S/PDIF-Out
	Конструктив	Форм-фактор microATX, 244 мм x 200 мм
Поддержка ОС	Windows XP / Vista / 7/ 8 Biostar оставляет за собой право добавлять или удалять поддержку любой ОС, с уведомлением или без.	

**SPANISH**

Especificaciones	
Compatibilidad con el procesador	Ranura FM2 para procesador AMD serie - A / serie - E2 Alimentación de Proyección Térmica (TDP - Thermal Design Power): 100Watt *Por favor consultar con <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> para la lista de compatibilidad con el procesador.
Tipo de Placa	AMD A75 FCH (TA75MH2)      AMD A55 FCH (A55MH2)
Memoria	Soporta DDR3 800/ 1066/ 1333/ 1600/ 1866 Doble Canal 2x DDR3 DIMM Ranura de memoria Soporta hasta 32 GB Memoria Cada DIMM soporta un modulo non-ECC 512MB/ 1/ 2/ 4/ 8/ 16 GB DDR3 *Por favor consultar con <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> para la lista de compatibilidad con el memoria.
Almacenamiento de información	AMD A75 FCH: Conector 6x SATA 6Gb/s Soporta RAID 0,1,10 & AHCI AMD A55 FCH: Conector 6x SATA 3Gb/s Soporta RAID 0,1,10 & AHCI
LAN	Realtek RTL 8111F 10/ 100/ 1000 Mb/s auto negociación, capacidad dúplex Mitad/Completo
Códec Audio	ALC662 Canales Audio de Alta Definición 5.1
USB	Plataforma AMD A75 FCH: Ranura 4x USB 3.0 (2 en las entrada/salidas posteriores y 2 por los distribuidores internos) Ranura 6x USB 2.0 (2 en las entradas/salidas posteriores y 4 por los distribuidores internos) Plataforma AMD A55 FCH: Ranura 8x USB 2.0 (4 en las entradas/salidas posteriores y 4 por los distribuidores internos)
Ranuras de Extinción	Ranura 1x PCI Ranura 2x PCIe 2.0 x1 Ranura 1x PCIe 2.0 x16
Panel trasero de E/S	<b>TA75MH2:</b> Teclado/ Ratón 1x PS/2 Ranura 1x HDMI Ranura 1x VGA Ranura 1x DVI Ranura 1x LAN Ranura 2x USB 2.0 Ranura 2x USB 3.0 Socket audio 3x <b>A55MH2:</b> Teclado/ Ratón 1x PS/2 Ranura 1x HDMI Ranura 1x VGA Ranura 1x DVI Ranura 1x LAN Ranura 4x USB 2.0 Socket audio 3x

Especificaciones	
Conectores en placa	<p><b>TA75MH2:</b></p> <ul style="list-style-type: none"> <li>Conector 6x SATA 6Gb's</li> <li>Distribuidor 2x USB 2.0 (cada distribuidor soporta 2 ranuras USB 2.0)</li> <li>Distribuidor 1x USB 3.0 (cada distribuidor soporta 2 ranuras USB 3.0)</li> <li>Conector con 4 patillas x1</li> <li>Conector con 24 patillas x1</li> <li>Conector Ventilador procesador x1</li> <li>Conector Ventilador Sistema x1</li> <li>Distribuidor Panel Frontal x1</li> <li>Distribuidor Audio Frontal x1</li> <li>Distribuidor CMOS Directo x1</li> <li>Distribuidor Consumible IR x1</li> <li>Distribuidor Ranura Impresora x1</li> <li>Distribuidor Ranura Serie x1</li> <li>Conector Externo S/PDIF x1</li> </ul> <p><b>A55MH2:</b></p> <ul style="list-style-type: none"> <li>Conector 6x SATA 3Gb's</li> <li>Distribuidor 2x USB 2.0 (cada distribuidor soporta 2 ranuras USB 2.0)</li> <li>Conector con 4 patillas x1</li> <li>Conector con 24 patillas x1</li> <li>Conector Ventilador procesador x1</li> <li>Conector Ventilador Sistema x1</li> <li>Distribuidor Panel Frontal x1</li> <li>Distribuidor Audio Frontal x1</li> <li>Distribuidor CMOS Directo x1</li> <li>Distribuidor Consumible IR x1</li> <li>Distribuidor Ranura Impresora x1</li> <li>Distribuidor Ranura Serie x1</li> <li>Conector Externo S/PDIF x1</li> </ul>
Factor de Forma	Factor de Forma microATX, 244 mm x 200 mm
Soporte OS	<p>Windows XP / Vista / 7/ 8</p> <p>Biostar reserva su derecho de añadir o retirar el soporte para cada OS con o sin notificación.</p>

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