

===== TA57A Setup Manual =====

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Si dichiara che questo prodotto è
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soddisfa i requisiti essenziali richiesti
dalle direttive
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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
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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 area or your motherboard version.

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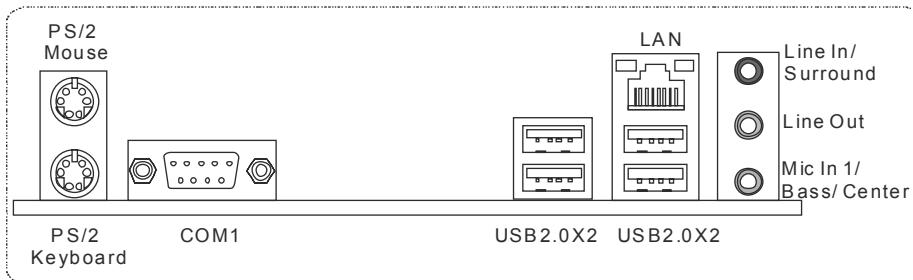
1.3 MOTHERBOARD FEATURES

SPEC			
CPU	Socket FM1 AMD A-Series / E2-Series processors		AMD 64 Architecture enables 32 and 64 bit computing
Chipset	AMD A55		
Super I/O	ITE 8728 Provides the most commonly used legacy Super I/O functionality Low Pin Count Interface		Environment Control initiatives H/W Monitor Fan Speed Controller ITE's "Smart Guardian" function
Main Memory	DDR3 DIMM Slots x 4 Max Memory Capacity 32GB Each DIMM supports 512MB/ 1GB/2GB/4GB/8GB DDR3		Dual Channel Mode DDR3 memory module Supports DDR3 800/1066/1333/1600/1866
SATA II	Integrated Serial ATA Controller		Data transfer rates up to 3 Gb/s. SATA Version 2.0 specification compliant. RAID 0,1,10 support
LAN	RTL8111E		10 / 100 Mb/s / 1Gb/s auto negotiation Half / Full duplex capability
Sound	VT1708B		5.1channels audio out Supports HD Audio
Slots	PCI Express Gen2 x16 Slot PCI Express Gen2 x1 Slot PCI Slot	x2 x2 x2	Supports PCI-E Gen2 x16, x4 expansion cards Supports PCI-E Gen2 x1 expansion cards Supports PCI expansion cards
On Board Connectors	SATA Connector Front Panel Connector Front Audio Connector S/PDIF out Connector CPU Fan Header System Fan Header CMOS clear Header	x6 x1 x1 x1 x1 x2 x1	Each connector supports 1 SATA device Supports front panel facilities Supports front panel audio function Supports digital audio out function CPU Fan power supply (with Smart Fan function) System Fan Power supply Restore CMOS data to factory default

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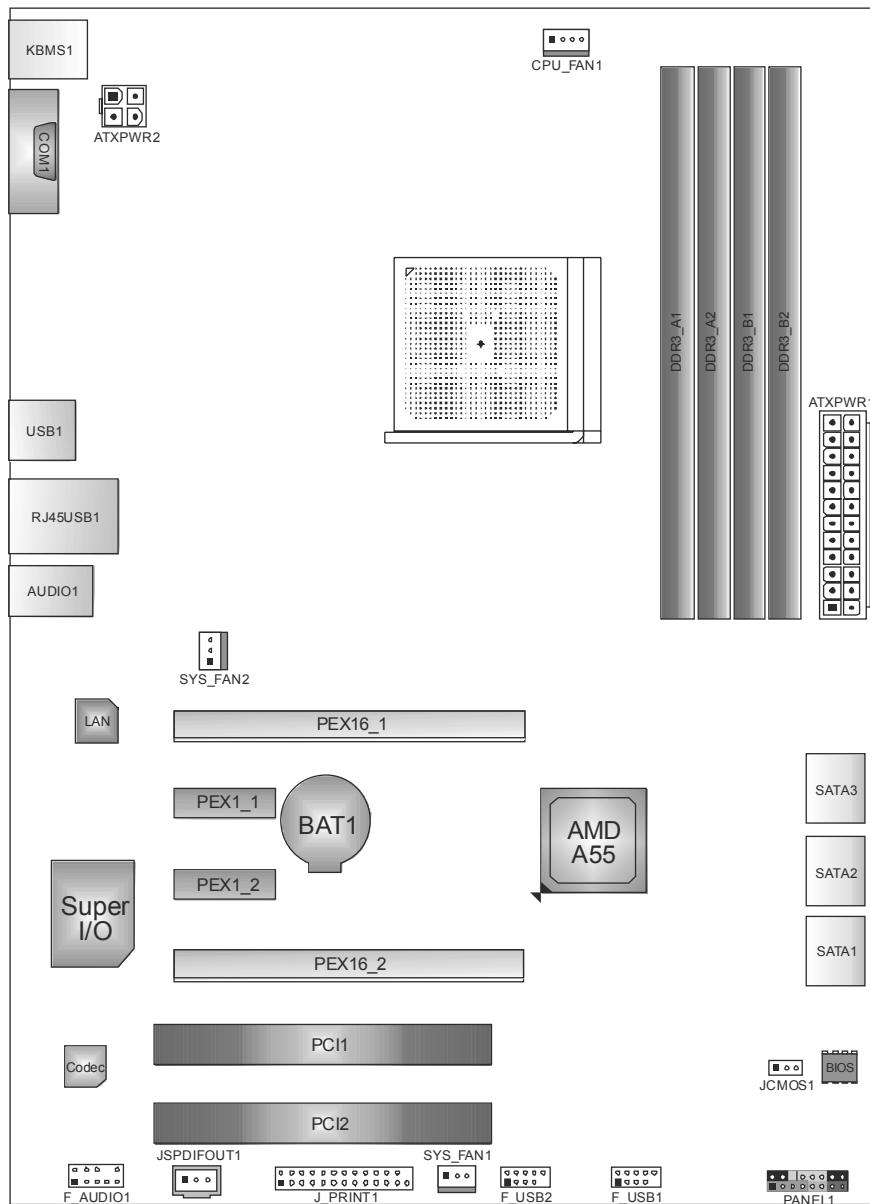
SPEC			
	USB2.0 Connector	x2	Each connector supports 2 front panel USB2.0 ports
	Printer Port Connector	x1	Each connector supports 1 Printer port
	Power Connector (24-Pin)	x1	Connects to Power supply
	Power Connector (4-Pin)	x1	Connects to Power supply
I/O	PS/2 Keyboard	x1	Connects to PS/2 Keyboard
	PS/2 Mouse	x1	Connects to PS/2 Mouse
	Serial Port	x1	Connects to RS-232 Port
	LAN port	x1	Connect to RJ-45 ethernet cable
	USB2.0 Port	x4	Connect to USB2.0 devices
	Audio Jack	x3	Provide Audio-In/Out and Mic. connection
Board Size	220 mm (W) x 305 mm (L)	ATX	
OS Support	Windows XP / Vista / 7	Biostar reserves the right to add or remove support for any OS With or without notice.	

1.4 REAR PANEL CONNECTORS



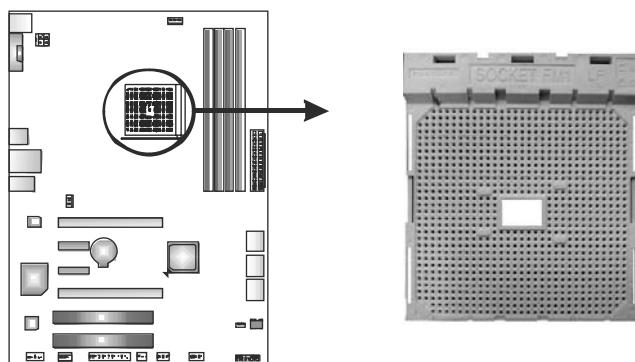
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1.5 MOTHERBOARD LAYOUT



CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



Step 1: Pull the lever toward direction A from the socket and then raise the lever up to a 90-degree angle.

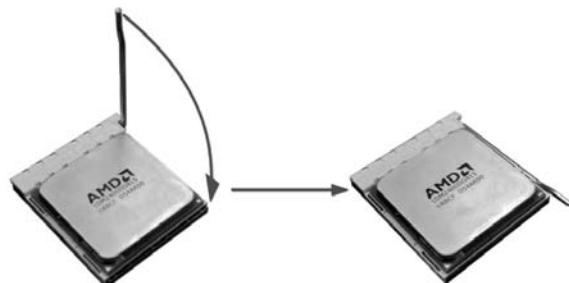


Step 2: Look for the white triangle on socket, and the gold triangle on CPU should point towards this white triangle. The CPU will fit only in the correct orientation.



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Step 3: Hold the CPU down firmly, and then close the lever toward direct B to complete the installation.

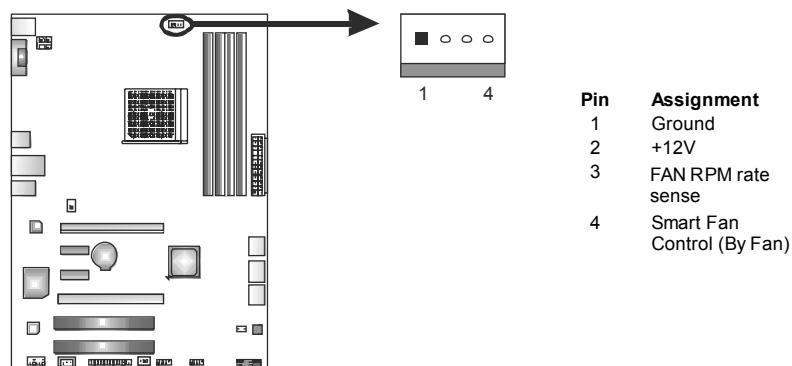


Step 4: Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the CPU_FAN1. This completes the installation.

2.2 FAN HEADERS

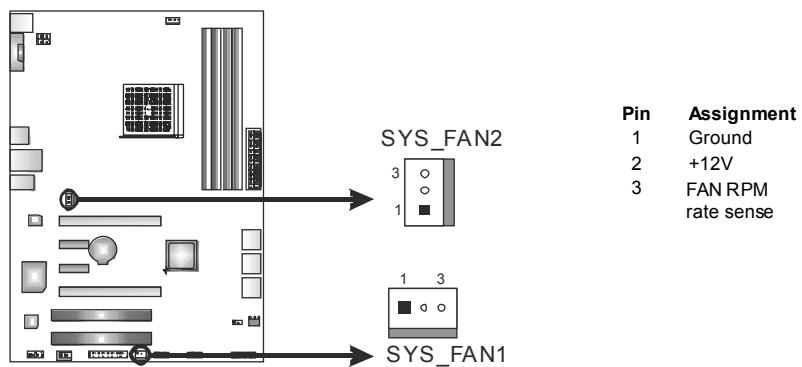
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU_FAN1: CPU Fan Header



SYS_FAN1: System Fan Header

SYS_FAN2: NorthBridge Fan Header

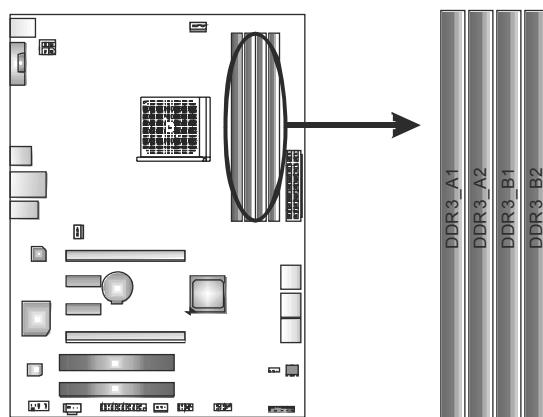


Note:

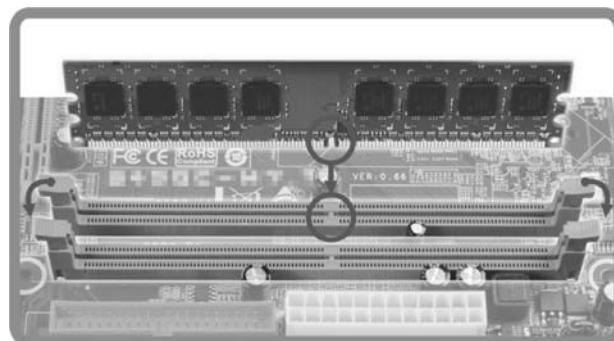
CPU_FAN1, SYS_FAN1/2 support 4-pin and 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

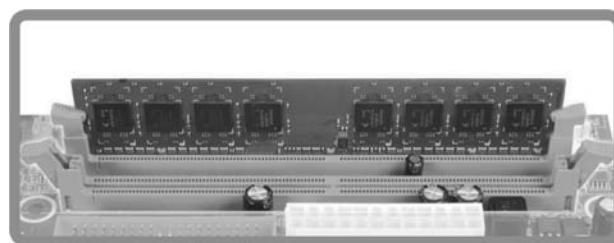
A. DDR3 Modules



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.



B. Memory Capacity

DIMM Socket Location	DDR3 Module	Total Memory Size
DDR3_A1	512MB/1GB/2GB/4GB/8GB	Max is 32GB.
DDR3_A2	512MB/1GB/2GB/4GB/8GB	
DDR3_B1	512MB/1GB/2GB/4GB/8GB	
DDR3_B2	512MB/1GB/2GB/4GB/8GB	

C. Dual Channel Memory Installation

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

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

Dual Channel Status	DDR3_A1	DDR3_A2	DDR3_B1	DDR3_B2
Enabled	O	X	O	X
Enabled	X	O	X	O
Enabled	O	O	O	O

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

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

D. DDR Speed Support

Please refer to the following table for DDR speed reference:

# of DIMM per Channel	# of Ranks per DIMM	Max DDR Speed Grade for 1.50V DIMM
1 of 1 UDIMM	xR	DDR3-1866
1 of 2 UDIMMs	xR	DDR3-1600
2 of 2 UDIMMs	1R, 1R	DDR3-1600
2 of 2 UDIMMs	2R, xR	DDR3-1333

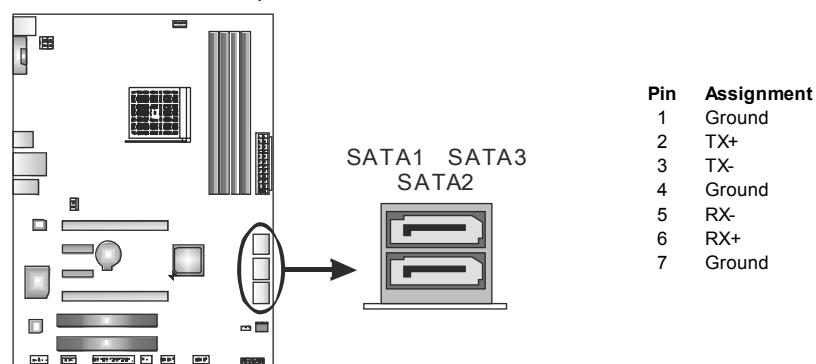
Note:

- ↳ xR: Single or double side memory module
- ↳ 1R: Single side memory module
- ↳ 2R: Double side memory module

2.4 CONNECTORS AND SLOTS

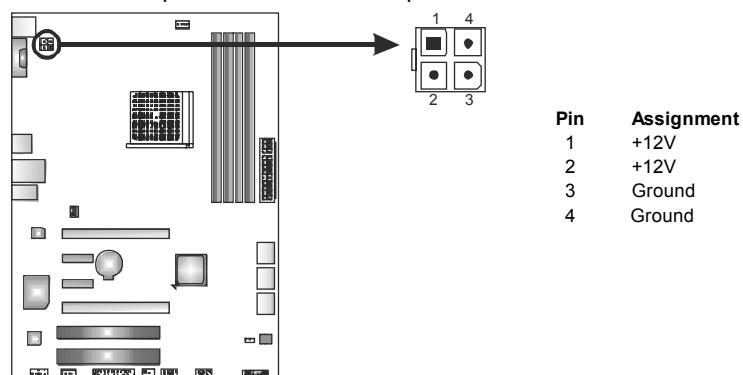
SATA1~SATA6: Serial ATA Connectors

The motherboard has a PCI to SATA Controller with 6 channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



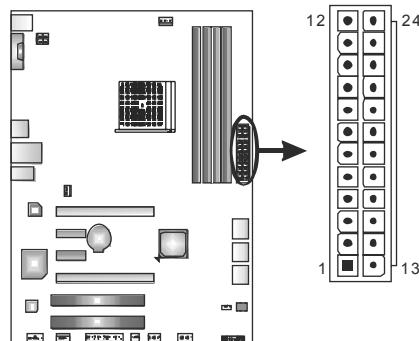
ATXPWR2: ATX Power Source Connector

This connector provides +12V to CPU power circuit.



ATXPWR1: ATX Power Source Connector

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



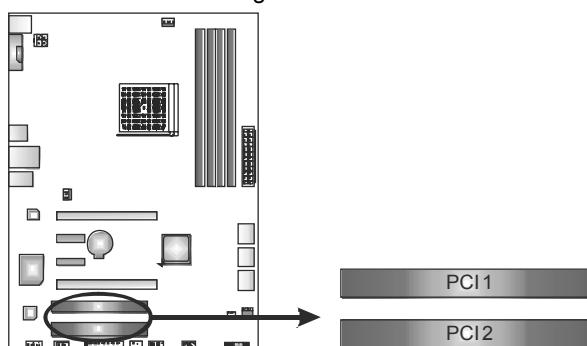
Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

Note:

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

PCI1/PCI2: Peripheral Component Interconnect Slots

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



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PEX16_1: PCI-Express Gen2 x16 Slot

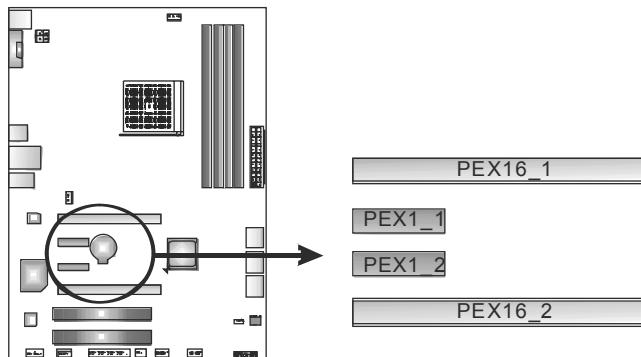
- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s simultaneously per direction, for an aggregate of 16GB/s totally.
- PCI-Express Gen2 supports a raw bit-rate of 5.0Gb/s on the data pins.
- 2X bandwidth over the PCI-Express 1.1 architecture.

PEX1_1/PEX1_2: PCI-Express Gen2 x1 Slots

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

PEX16_2: PCI-Express Gen2 x4 Slot

- PCI-Express 2.0 compliant.
- Data transfer bandwidth up to 2GB/s per direction; 4GB/s in total.
- PCI-Express supports a raw bit-rate of 2.5Gb/s on the data pins.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

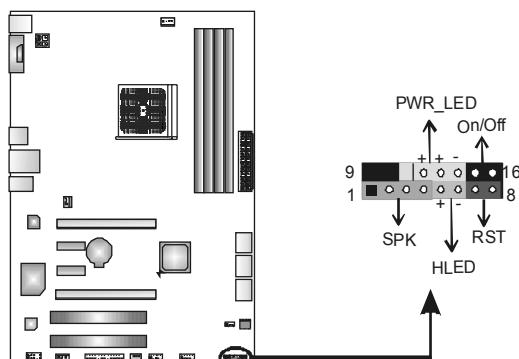
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

PANEL1: Front Panel Header

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

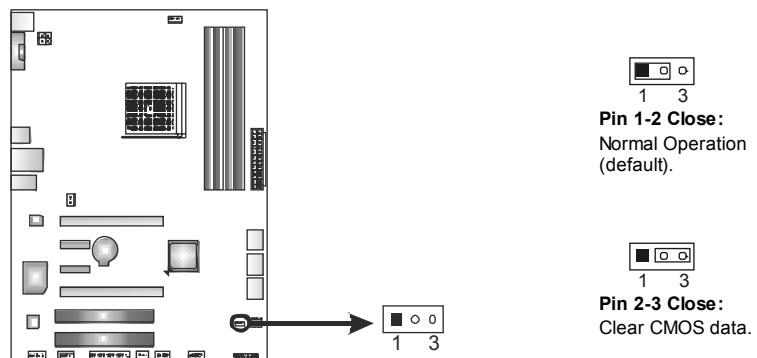


Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	N/A	N/A
2	N/A		10	N/A	N/A
3	N/A		11	N/A	N/A
4	Speaker		12	Power LED (+)	Power LED
5	HDD LED (+)	Hard drive LED	13	Power LED (+)	
6	HDD LED (-)		14	Power LED (-)	
7	Ground	Reset button	15	Power button	Power-on button
8	Reset control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

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JCMOS1: Clear CMOS Header

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

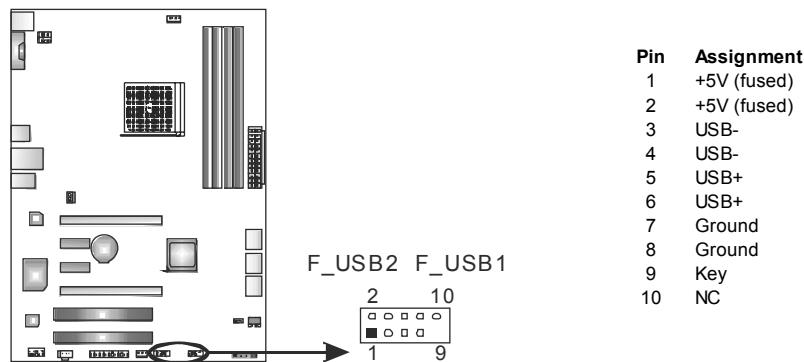


※ Clear CMOS Procedures:

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

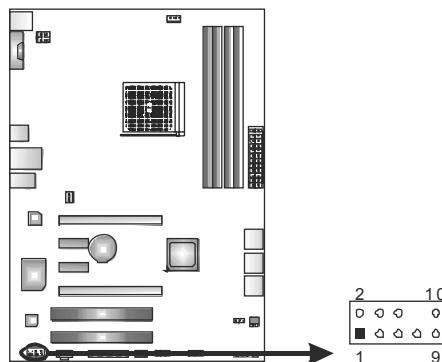
F_USB1/F_USB2: Headers for USB 2.0 Ports at Front Panel

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



F_AUDIO1: Front Panel Audio Header

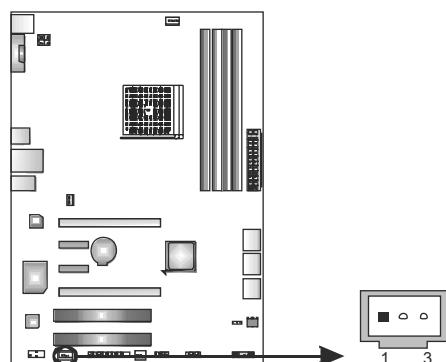
This header allows user to connect the front audio output cable with the PC front panel. This header supports HD and AC'97 audio front panel connector.



Pin	Assignment
1	Mic Left in
2	Ground
3	Mic Right in
4	GPIO
5	Right line in
6	Jack Sense
7	Front Sense
8	Key
9	Left line in
10	Jack Sense

JSPDIFOUT1: Digital Audio-out Connector

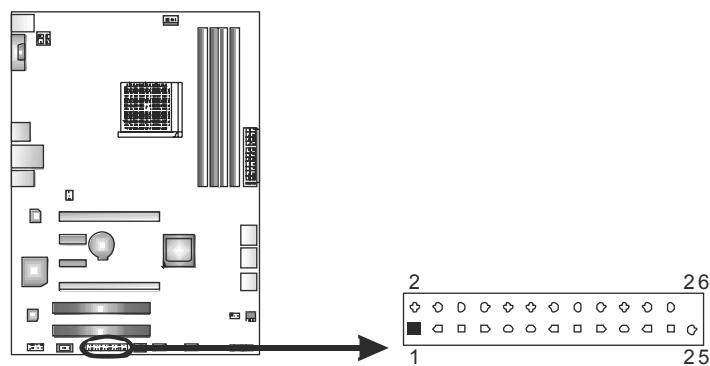
This connector allows user to connect the PCI bracket SPDIF output header.



Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

J_PRINT1: Printer Port Connector

This header allows you to connector printer on the PC.



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

CHAPTER 4: RAID FUNCTIONS

4.1 OPERATING SYSTEM

Supports Windows Vista and Windows 7.

4.2 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.

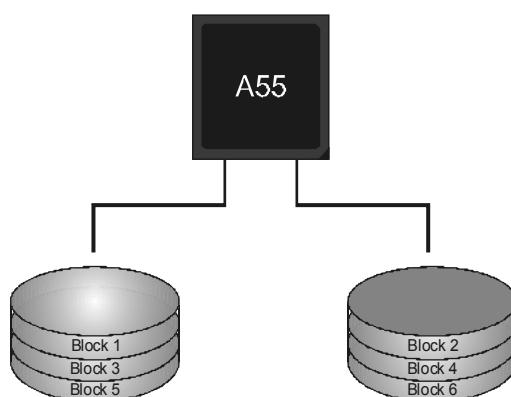
4.3 How RAID WORKS

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.

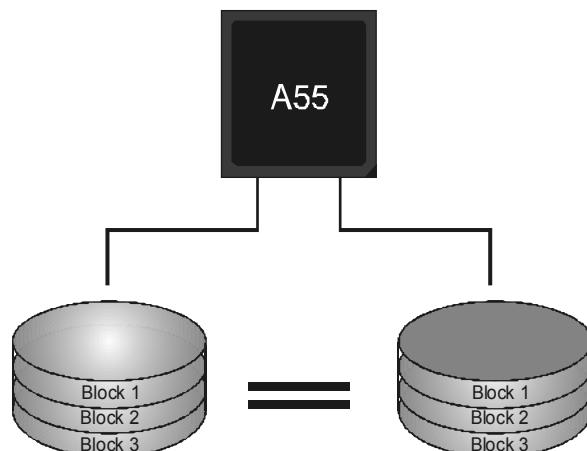


RAID 1:

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.

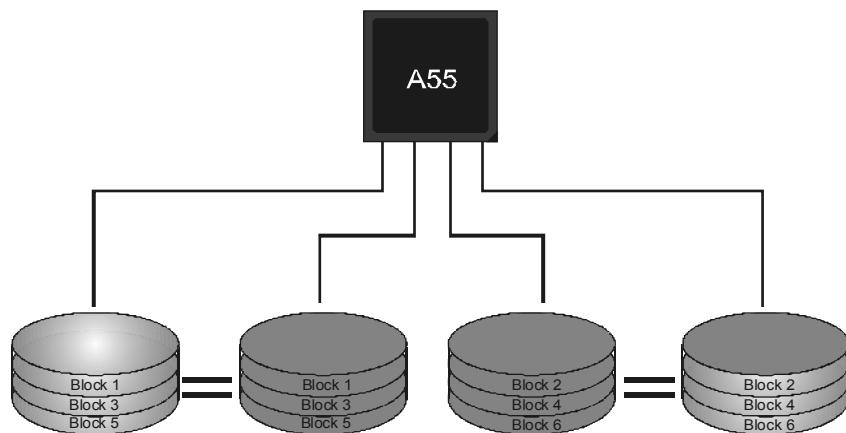


RAID 10:

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.

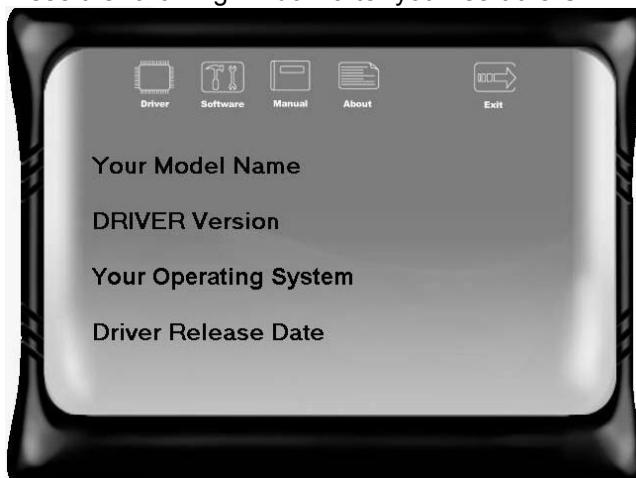


CHAPTER 5: USEFUL HELP

5.1 DRIVER INSTALLATION NOTE

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

You will see the following window after you insert the CD



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

Note:

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

A. Driver Installation

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

B. Software Installation

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

C. Manual

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

Note:

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

5.2 SOFTWARE

Installing Software

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

Launching Software

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

eHot-Line (Optional)

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

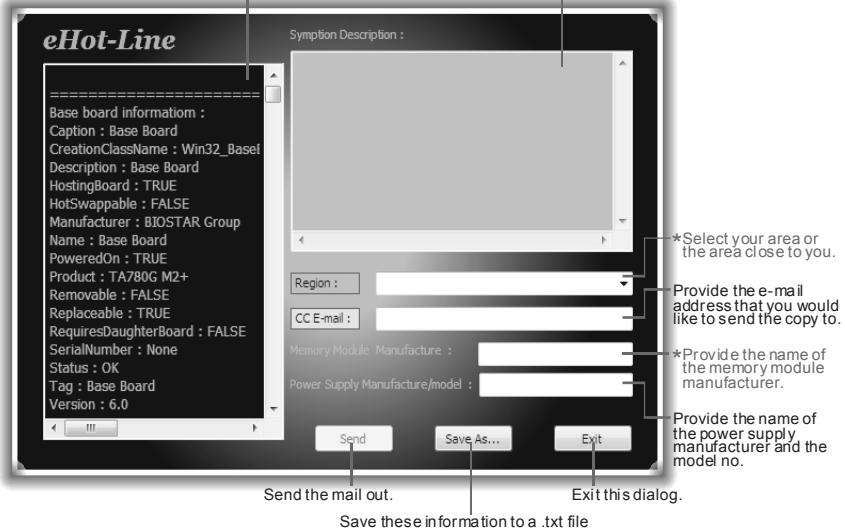


Before you use this utility, please set Outlook Express as your default e-mail client application program.

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

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

*Describe condition of your system.



Send the mail out.

Save these information to a .txt file

Exit this dialog.

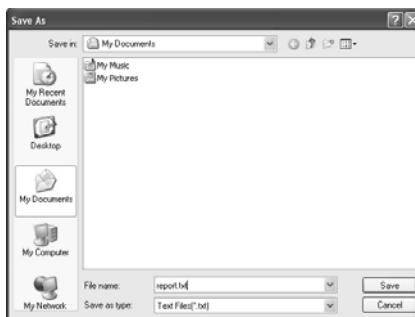
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After filling up this information, click “**Send**” to send the mail out. A warning dialog would appear asking for your confirmation; click “**Send**” to confirm or “**Do Not Send**” to cancel.



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

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



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



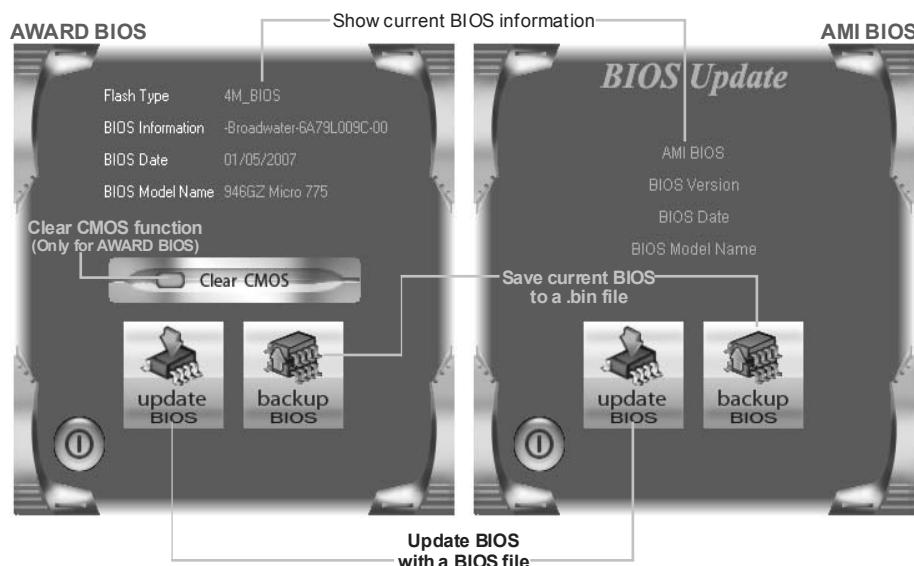
We will not share customer's data with any other third parties, so please feel free to provide your system information while using eHot-Line service.



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

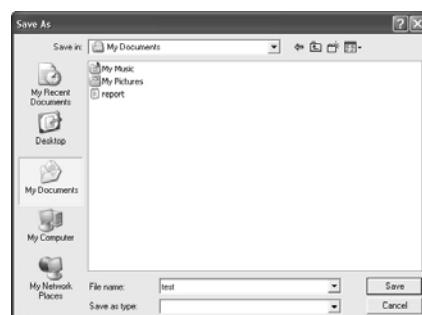
BIOS Update

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



<Backup BIOS>

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

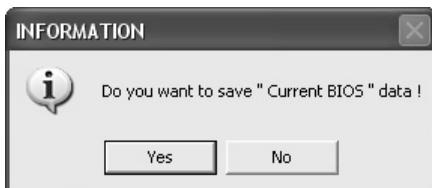


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<Update BIOS>

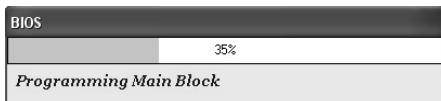
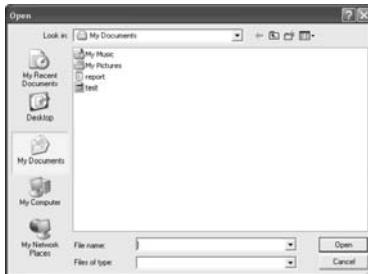
Before doing this, please download the proper BIOS file from the website.

For AWARD BIOS, update BIOS procedure should be run with Clear CMOS function, so please check on Clear CMOS first.



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

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



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

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



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

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



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

5.3 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.

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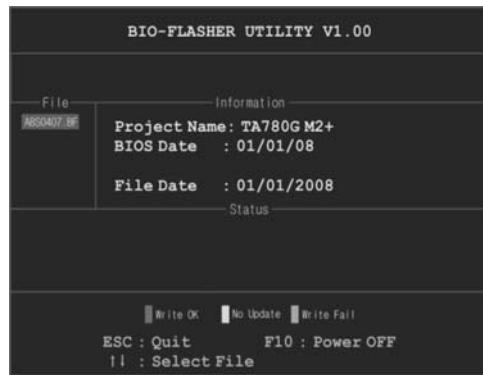
BIO-Flasher

BIO-Flasher is a BIOS flashing utility providing you an easy and simple way to update your BIOS via USB pen drive or floppy disk.

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

Updating BIOS with BIO-Flasher

1. Go to the website to download the latest BIOS file for the motherboard.
2. Then, save the BIOS file into a USB pen drive or a floppy disk.
3. Insert the USB pen drive or the floppy disk that contains the BIOS file to the USB port or the floppy disk drive.
4. Power on or reset the computer and then press **<F12>** during the **POST** process.
A select dialog as the picture on the right appears.
Select the device contains the BIOS file and press **<Enter>** to enter the utility.



5. The utility will show the BIOS files and their respective information. Select the proper BIOS file and press **<Enter>** then **<Y>** to perform the BIOS update process.
6. After the update process, the utility will ask you to reboot the system. Press **<Y>** to proceed. BIOS update completes.



- 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.

5.4 AMI BIOS BEEP CODE

Boot Block Beep Codes

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

POST BIOS Beep Codes

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

Troubleshooting POST BIOS Beep Codes

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

5.5 TROUBLESHOOTING

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

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APPENDIX: SPEC IN OTHER LANGUAGES

GERMAN

Spezifikationen		
CPU	Sockel FM1 AMD A-Series / E2-Series Prozessoren	Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung
Chipsatz	AMD A55	
Super E/A	ITE 8728 Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle	Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR3 DIMM-Steckplätze x 4 Max. 32GB Arbeitsspeicher Jeder DIMM unterstützt 512MB/ 1GB/2GB/4GB/8GB DDR3.	Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 800/1066/1333/1600/1866 Unterstützt DDR3 2000 (OC)
SATA II	Integrierter Serial ATA-Controller	Datentransferrate bis zu 3 Gb/s Konform mit der SATA-Spezifikation Version 2.0 Unterstützt RAID 0,1,10
LAN	RTL8111E	10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion
Audio-Codec	VT1708B	5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio
Steckplätze	PCI Express Gen2 x16 Steckplatz x2 PCI Express Gen2 x1 Steckplatz x2 PCI Steckplatz x2	
Onboard-Anschluss	SATA-Anschluss x6 Fronttafelanschluss x1 Front-Audioanschluss x1 S/PDIF Ausgangsanschluss x1 CPU-Lüfter-Sockel x1 System-Lüfter-Sockel x2	Jeder Anschluss unterstützt 1 SATA-Laufwerk Unterstützt die Fronttafelfunktionen Unterstützt die Fronttafel-Audioanschlussfunktion Unterstützt die digitale Audioausgabefunktion CPU-Lüfterstromversorgungsanschluss (mit Smart Fan-Funktion) System-Lüfter-Stromversorgungsanschluss

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Spezifikationen			
	"CMOS löschen"-Sockel	x1	
	USB2.0-Anschluss	x2	Jeder Anschluss unterstützt 2 Fronttafel-USB2.0-Anschlüsse
	Druckeranschluss Anschluss	x1	Jeder Anschluss unterstützt 1 Druckeranschluss
	Stromanschluss (24-polig)	x1	
	Stromanschluss (4-polig)	x1	
Rückseiten-E /A	PS/2-Tastatur	x1	
	PS/2-Maus	x1	
	Serieller Anschluss	x1	
	LAN-Anschluss	x1	
	USB2.0-Anschluss	x4	
	Audioanschluss	x3	
Platinengröße	220 mm (B) X 305 mm (L)		
OS-Unterstützung	Windows XP / Vista / 7		Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

Motherboard Manual

FRENCH

SPEC		
UC	Socket FM1 Processeurs AMD A-Series / E2-Series	L'architecture AMD 64 permet le calcul 32 et 64 bits
Chipset	AMD A55	
Super E/S	ITE 8728 Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches	Initiatives de contrôle environnementales, Moniteur de matériel Contrôleur de vitesse de ventilateur Fonction "Gardien intelligent" de l'ITE
Mémoire principale	Fentes DDR3 DIMM x 4 Capacité mémoire maximale de 32Go Chaque DIMM prend en charge des DDR3 de 512Mo/1Go/2Go/4Go/8Go	Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 800/1066/1333/1600/1866 Prend en charge la DDR3 2000 (OC)
SATA II	Contrôleur Serial ATA intégré	Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0 Prise en charge RAID 0,1,10
LAN	RTL8111E	10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability
Codec audio	VT1708B	Sortie audio à 5.1 voies Prise en charge de l'audio haute définition
Fentes	Fente PCI Express Gen2 x16 Fente PCI Express Gen2 x1 Fente PCI	x2 x2 x2
Connecteur embarqué	Connecteur SATA Connecteur du panneau avant Connecteur Audio du panneau avant x1 Connecteur de sortie S/PDIF Embase de ventilateur UC Embase de ventilateur système Embase d'effacement CMOS	x6 x1 x1 x1 x1 x2 x1
	Chaque connecteur prend en charge 1 périphérique SATA Prend en charge les équipements du panneau avant Prend en charge la fonction audio du panneau avant Prend en charge la fonction de sortie audio numérique Alimentation électrique du ventilateur UC (avec fonction de ventilateur intelligent) Alimentation électrique du ventilateur système	

TA57A

SPEC		
	Connecteur USB2.0 x2	Chaque connecteur prend en charge 2 ports USB2.0 de panneau avant
	Connecteur de Port d'imprimante x1	Chaque connector prend en charge 1 Port d'imprimante
	Connecteur d'alimentation (24 broches) x1	
	Connecteur d'alimentation (4broches) x1	
E/S du panneau arrière	Clavier PS/2 x1	
	Souris PS/2 x1	
	Port série x1	
	Port LAN x1	
	Port USB2.0 x4	
	Fiche audio x3	
Dimensions de la carte	220 mm (l) X 305 mm (H)	
Support SE	Windows XP / Vista / 7	BioStar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

Motherboard Manual

ITALIAN

SPECIFICA			
CPU	Socket FM1 Processori AMD A-Series / E2-Series	L'architettura AMD 64 abilita la computazione 32 e 64 bit	
Chipset	AMD A55		
Super I/O	ITE 8728 Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count)	Funzioni di controllo dell'ambiente: Monitoraggio hardware Controller velocità ventolina Funzione "Smart Guardian" di ITE	
Memoria principale	Alloggi DIMM DDR3 x 4 Capacità massima della memoria 32GB Ciascun DIMM supporta DDR3 512MB/1GB/2GB/4GB/8GB	Modulo di memoria DDR3 a canale doppio Supporto di DDR3 800/1066/1333/1600/1866 Supporto di DDR3 2000 (OC)	
SATA II	Controller Serial ATA integrato	Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0 Supporto RAID 0,1,10	
LAN	RTL8111E	Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex	
Codec audio	VT1708B	Uscita audio 5.1 canali Supporto audio High-Definition (HD)	
Alloggi	Alloggio PCI Express Gen2 x16 x2 Alloggio PCI Express Gen2 x1 x2 Alloggio PCI x2		
Connettori su scheda	Connettore SATA x6 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore output S/PDIF x1 Collettore ventolina CPU x1 Collettore ventolina sistema x2	Ciascun connettore supporta 1 unità SATA Supporta i servizi del pannello frontale Supporta la funzione audio pannello frontale Supporta la funzione d'output audio digitale Alimentazione ventolina CPU (con funzione Smart Fan) Alimentazione ventolina di sistema	

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SPECIFICA		
	Collettore cancellazione CMOS x1 Connettore USB2.0 x2 Connettore Porta stampante x1 Connettore alimentazione (24 pin) x1 Connettore alimentazione (4pin) x1	Ciascun connettore supporta 2 porte USB2.0 pannello frontale Ciascun connettore supporta 1 Porta stampante
I/O pannello posteriore	Tastiera PS/2 x1 Mouse PS/2 x1 Porta seriale x1 Porta LAN x1 Porta USB2.0 x4 Connettore audio x3	
Dimensioni scheda	220 mm (larghezza) x 305 mm (altezza)	
Sistemi operativi supportati	Windows XP / Vista / 7	Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

Motherboard Manual

SPANISH

Especificación			
CPU	Conector FM1 Procesadores AMD A-Series / E2-Series		La arquitectura AMD 64 permite el procesado de 32 y 64 bits
Conjunto de chips	AMD A55		
Súper E/S	ITE 8728 Le ofrece las funcionalidades heredadas de uso más común Súper E/S. Interfaz de cuenta Low Pin		Iniciativas de control de entorno, Monitor hardware Controlador de velocidad de ventilador Función "Guardia inteligente" de ITE
Memoria principal	Ranuras DIMM DDR3 x 4 Capacidad máxima de memoria de 32GB Cada DIMM admite DDR de 512MB/1GB/2GB/4GB/8GB		Módulo de memoria DDR3 de canal Doble Admite DDR3 de 800/1066/1333/1600/1866 Admite DDR3 de 2000 (OC)
SATA II	Controlador ATA Serie Integrado		Tasas de transferencia de hasta 3 Gb/s. Compatible con la versión SATA 2.0 Admite RAID 0,1,10
Red Local	RTL8111E		Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex
Códecs de sonido	VT1708B		Salida de sonido de 5.1 canales Soporte de sonido de Alta Definición
Ranuras	Ranura PCI Express Gen2 x16 Ranura PCI express Gen2 x1 Ranura PCI	X2 X2 X2	
Conectores en placa	Conector SATA Conector de panel frontal Conector de sonido frontal Conector de salida S/PDIF Cabecera de ventilador de CPU	X6 X1 X1 X1 X1	Cada conector soporta 1 dispositivos SATA Soporta instalaciones en el panel frontal Soporta funciones de sonido en el panel frontal Soporta función de salida de sonido digital Fuente de alimentación de ventilador de CPU (con función Smart Fan)

TA57A

Especificación		
	Cabecera de ventilador de sistema X2 Cabecera de borrado de CMOS X1 Conector USB2.0 X2 Conector Puerto de impresora X1 Conector de alimentación (24 patillas) X1 Conector de alimentación (4patillas) X1	Fuente de alimentación de ventilador de sistema Cada conector soporta 2 puertos USB2.0 frontales Cada conector soporta 1 Puerto de impresora
Panel trasero de E/S	Teclado PS/2 X1 Ratón PS/2 X1 Puerto serie X1 Puerto de red local X1 Puerto USB2.0 X4 Conector de sonido X3	
Tamaño de la placa	220 mm. (A) X 305 mm. (H)	
Soporte de sistema operativo	Windows XP / Vista / 7	Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

Motherboard Manual

PORTUGUESE

ESPECIFICAÇÕES			
CPU	Socket FM1 Processadores AMD A-Series / E2-Series	A arquitectura AMD 64 permite uma computação de 32 e 64 bits	
Chipset	AMD A55		
Especificaçāo Super I/O	ITE 8728 Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count).	Iniciativas para controlo do ambiente Monitorização do hardware Controlador da velocidade da ventoinha Função "Smart Guardian" da ITE	
Memória principal	Ranhuras DIMM DDR3 x 4 Capacidade máxima de memória: 32GB Cada módulo DIMM suporta uma memória DDR3 de 512MB/ 1GB/2GB/4GB/8GB	Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 800/1066/1333/1600/1866 Suporta módulos DDR3 2000 (OC)	
SATA II	Controlador Serial ATA integrado	Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0 Suporta as funções RAID 0,1,10	
LAN	RTL8111E	Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex	
Codec de som	VT1708B	Saída de áudio de 5.1 canais Suporta a especificação High-Definition Audio	
Ranhuras	Ranhura PCI Express Gen2 x16 Ranhura PCI Express Gen2 x1 Ranhura PCI	x2 x2 x2	
Conectores na placa	Conector SATA Conector do painel frontal Conector de áudio frontal Conector de saída S/PDIF Conector da ventoinha da CPU Conector da ventoinha do sistema	x6 x1 x1 x1 x1 x2	Cada conector suporta 1 dispositivo SATA Para suporte de várias funções no painel frontal Suporta a função de áudio no painel frontal Suporta a saída de áudio digital Alimentação da ventoinha da CPU (com a função Smart Fan) Alimentação da ventoinha do sistema

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ESPECIFICAÇÕES			
	Conector para limpeza do CMOS Conector USB2.0 Conector da para impressora Conector de alimentação (24 pinos) Conector de alimentação (4 pinos)	x1 x2 x1 x1 x1	Cada conector suporta 2 portas USB2.0 no painel frontal Cada conector suporta 1 Porta para impressora
Entradas/Saídas no painel traseiro	Teclado PS/2 Rato PS/2 Porta série Porta LAN Porta USB2.0 Tomada de áudio	x1 x1 x1 x1 x4 x3	
Tamanho da placa	220 mm (L) X 305 mm (A)		
Sistemas operativos suportados	Windows XP / Vista / 7	A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.	

Motherboard Manual

POLISH

SPEC			
Procesor	Socket FM1 AMD A-Series / E2-Series Procesory		Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe
Chipset	AMD A55		
Pamięć główna	Gniazda DDR3 DIMM x 4 Maks. wielkość pamięci 32GB Każde gniazdo DIMM obsługuje moduły 512MB/1GB/2GB/4GB/8GB DDR3		Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 800/1066/1333/1600/1866 Obsługa DDR3 2000 (OC)
Super I/O	ITE 8728 Zapewnia najbardziej powszechnie funkcje Super I/O. Interfejs Low Pin Count		Funkcje kontroli warunków pracy, Monitor H/W Kontroler prędkości wentylatora Funkcja ITE "Smart Guardian"
SATA II	Zintegrowany kontroler Serial ATA		Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0 Obsługa RAID 0,1,10
LAN	RTL8111E		10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego/pelnego dupleksu
Kodek dźwiękowy	VT1708B		5.1 kanałowe wyjście audio Obsługa High-Definition Audio
Gniazda	Gniazdo PCI Express Gen2 x16 Gniazdo PCI Express Gen2 x1 Gniazdo PCI	x2 x2 x2	
Złącza wbudowane	Złącze SATA Złącze panela przedniego Przednie złącze audio Złącze wyjścia S/PDIF Złącze głowkowe wentylatora procesora Złącze głowkowe wentylatora systemowego	x6 x1 x1 x1 x1 x2	Każde złącze obsługuje 1 urządzenie SATA Obsługa elementów panela przedniego Obsługa funkcji audio na panelu przednim Obsługa funkcji cyfrowego wyjścia audio Zasilanie wentylatora procesora (z funkcją Smart Fan) Zasilanie wentylatora systemowego

TA57A

SPEC			
	Złącze główkowe kasowania CMOS	x1	
	Złącze USB2.0	x2	Każde złącze obsługuje 2 porty USB2.0 na panelu przednim
	Złącze Port drukarki	x1	Każde złącze obsługuje 1 Port drukarki
	Złącze zasilania (24 pinowe)	x1	
	Złącze zasilania (4 pinowe)	x1	
Back Panel I/O	Klawiatura PS/2	x1	
	Mysz PS/2	x1	
	Port szeregowy	x1	
	Port LAN	x1	
	Port USB2.0	x4	
	Gniazdo audio	x3	
Wymiary płyty	220 mm (S) X 305 mm (W)		
Obsługa systemu operacyjne go	Windows XP / Vista / 7		Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

Motherboard Manual

RUSSIAN

СПЕЦ			
CPU (центральн ый процессор)	Гнездо FM1 Процессоры AMD A-Series / E2-Series		Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит
Набор микросхем	AMD A55		
Основная память	Слоты DDR3 DIMM x 4 Максимальная ёмкость памяти 32ГБ Каждый модуль DIMM поддерживает 512МБ/1ГБ/2ГБ/4ГБ/8ГБ DDR3		Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 800/1066/1333/1600/1866 Поддержка DDR3 2000 (ОС)
Super I/O	ITE 8728 Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов		Инициативы по охране окружающей среды, Аппаратный монитор Регулятор скорости Функция ITE "Smart Guardian" (Интеллектуальная защита)
SATA II	Встроенное последовательное устройство управления ATA		скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0 Поддержка RAID 0,1,10
Локальная сеть	RTL8111E		Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность
Звуковой кодек	VT1708B		Звуковая поддержка High-Definition 5.1канальный звуковой выход
Слоты	Слот PCI Express Gen2 x16 Слот PCI Express Gen2 x1 Слот PCI	x2 x2 x2	
Встроенн ий разъём	Разъём SATA Разъём на лицевой панели Входной звуковой разъём Разъём вывода для S/PDIF Контактирующее приспособление вентилятора центрального процессора x1	x6 x1 x1 x1 x1	Каждый разъём поддерживает 1 устройство SATA Поддержка устройств на лицевой панели Поддержка звуковых функций на лицевой панели Поддержка вывода цифровой звуковой функции Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора)

TA57A

СПЕЦ			
	Контактирующее приспособление вентилятора системы Открытое контактирующее приспособление CMOS USB2.0-разъём Разъём Порт подключения принтера Разъем питания (24 вывод) Разъем питания (4 вывод)	x2 x1 x2 x1 x1 x1	Источник питания для вентилятора системы Каждый разъём поддерживает 2 USB2.0-порта на лицевой панели Каждый разъём поддерживает 1 Порт подключения принтера
Задняя панель средств ввода-вывода	Клавиатура PS/2 Мышь PS/2 Последовательный порт Порт LAN USB2.0-порт наушников	x1 x1 x1 x1 x4 x3	
Размер панели	220 мм (Ш) X 305 мм (В)		
Поддержка OS	Windows XP / Vista / 7		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.

Motherboard Manual

ARABIC

المواصفات			
لجراء العمليات الخلوية بسرعة 32 و 64 بت AMD A-Series / E2-Series	المقابس FM1 AMD A-Series / E2-Series	وحدة المعالجة المركزية	
AMD A55		مجموعة الترافق	
مزنوجة لقادة DDR3 وحدة ذاكرة سعت 1866/1600/1333/1066/800 DDR3 تدعم الذاكرة من نوع مجا بليت 2000 (OC) سعات DDR3 نوع من الذاكرة تدعم بلت و1/2 و4 و8 جيجا بليت	4 عدد DDR3 DIMM سعة ذاكرة قصوى 32 جيجا بليت مجا بليت سعة DDR3 تدعم ذاكرة من نوع DIMM كل قحة بلت و1/2 و4 و8 جيجا بليت	ذاكرة رئيسية	
وسلل الحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة من "Smart Guardian" وظيفة	ITE 8728 Super I/O Low Pin Count Interface	ITE 8728 Super I/O	
نقل البيانات بسرعت نصل إلى 3 جيجابت/ثانية. 2.0 الإصدار SATA مطلقة لموافقـات RAID 0,1,10 تدعم تقنية	Serial ATA منكمـن	SATA II	
تغوص ثلاثي 100/10 مجا بليت / ثانية و1 جيجا بيت/ثانية إمكانية النقل المزدوج الكامل/النصفي	RTL8111E	شبكة داخلية	
تدعم تقنية الصوت عالي التعريف من 5.1 قوّات لخرج الصوت	VT1708B	كرديك الصوت	
	2 عدد PCI Express Gen2 x16 2 عدد PCI Express Gen2 x1 2 عدد PCI	القـحـات	
يدعم كل منفذ واحد من لوحة يدعم تجهيزات اللوحة الألمانية يدعم وظيفة الصوت باللوحة الألمانية يدعم وظيفة خرج الصوت الرقمي وصلة مروحة وحدة المعالجة المركزية مع وظيفة Smart Fan	منفذ SATA منفذ اللوحة الألمانية منفذ الصوت الألماني منفذ خرج S/PDIF منفذ على سطح اللوحة		

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الموصفات		
لوصيل الطاقة لمروحة النظام	2 عدد	وصلة مروحة النظام
	1 عدد	وصلة مسح CMOS
يدعم كل منفذ قحتي USB2.0 باللوحة الأممية	2 عدد	منفذ USB2.0
	1 عدد	منفذ طابعة
	1 عدد	منفذ توصيل الطاقة (24 بوس)
	1 عدد	منفذ توصيل الطاقة (4 ببس)
	1 عدد	لوحة متلتح PS/2
	1 عدد	مدرس PS/2
	1 عدد	منفذ تسلسلي
	1 عدد	منفذ شبكة اتصال محلية
	4 عدد	منافذ USB2.0
	3 عدد	مقبس صوت
	حجم اللوحة 305 مم (عرض) X 220 مم (ارتفاع)	
بحقها في إضافة لوحة الدعم لأي نظام تشغيل بإخطار أو بدون Biostar حفظ إخطار.	Windows XP / Vista / 7	
	دعم نظم التشغيل	

Motherboard Manual

JAPANESE

仕様			
CPU	Socket FM1 AMD A-Series / E2-Series プロセッサ	AMD 64アーキテクチャでは、32ビットと64ビット計算が可能です	
チップセット	AMD A55		
メインメモリ	DDR3 DIMMスロット x 4 最大メモリ容量32GB 各DIMMは 512MB/1GB/2GB/4GB/8GB DDR3 をサポート	デュアル チャンネルモードDDR3 メモリモジュール DDR3 800/1066/1333/1600/1866 をサポート DDR3 2000 (OC) をサポート	
Super I/O	ITE 8728 もつとも一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス	環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ / モニター ITEの「スマートガーディアン」機能	
SATA II	統合シリアルATA コントローラ	最高3 Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。 RAID 0,1,10のサポート	
LAN	RTL8111E	10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能	
サウンド Codec	VT1708B	ハイデフィニションオーディオのサポート 5.1 チャンネルオーディオアウト	
スロット	PCI Express Gen2 x16スロット PCI Express Gen2 x1スロット PCIスロット	x2 x2 x2	
オンボードコネクタ	SATAコネクタ フロントパネルコネクタ フロントオーディオコネクタ S/PDIFアウトコネクタ CPUファンヘッダ システムファンヘッダ CMOSクリアヘッダ	x6 x1 x1 x1 x1 x2 x1	各コネクタは1つのSATAデバイスをサポートします フロントパネル機能をサポートします フロントパネルオーディオ機能をサポートします デジタルオーディオアウト機能をサポートします CPUファン電源装置(スマートファン機能を搭載) システムファン電源装置

TA57A

仕様			
	USB2.0コネクタ	x2	各コネクタは2つのフロントパネルUSB2.0ポートをサポートします
	プリンタポートコネクタ	x1	各コネクタは1つのプリンタポートをサポートします
	電源コネクタ(24ピン)	x1	
	電源コネクタ(4ピン)	x1	
背面パネル I/O	PS/2キーボード	x1	
	PS/2マウス	x1	
	シリアルポート	x1	
	LANポート	x1	
	USB2.0ポート	x4	
	オーディオジャック	x3	
ボードサイズ	220 mm (幅) X 305 mm (高さ)		
OSサポート	Windows XP / Vista / 7		Biostarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。

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