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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.

1.2 PACKAGE CHECKLIST

-  HDD Cable X 1 (optional)
-  Serial ATA Cable X 2
-  Rear I/O Panel for ATX Case X 1
-  Installation Guide X 1
-  Fully Setup Driver DVD X 1 (full version manual files inside)
-  FDD Cable X 1 (optional)
-  USB 2.0 Cable X1 (optional)
-  S/PDIF out Cable X 1 (optional)
-  Serial ATA Power Cable X 1 (optional)

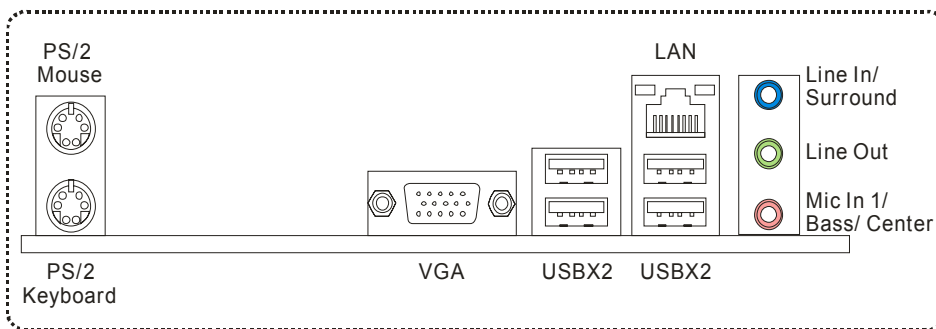
Note: The package contents may be different due to area or your motherboard version.

1.3 MOTHERBOARD FEATURES

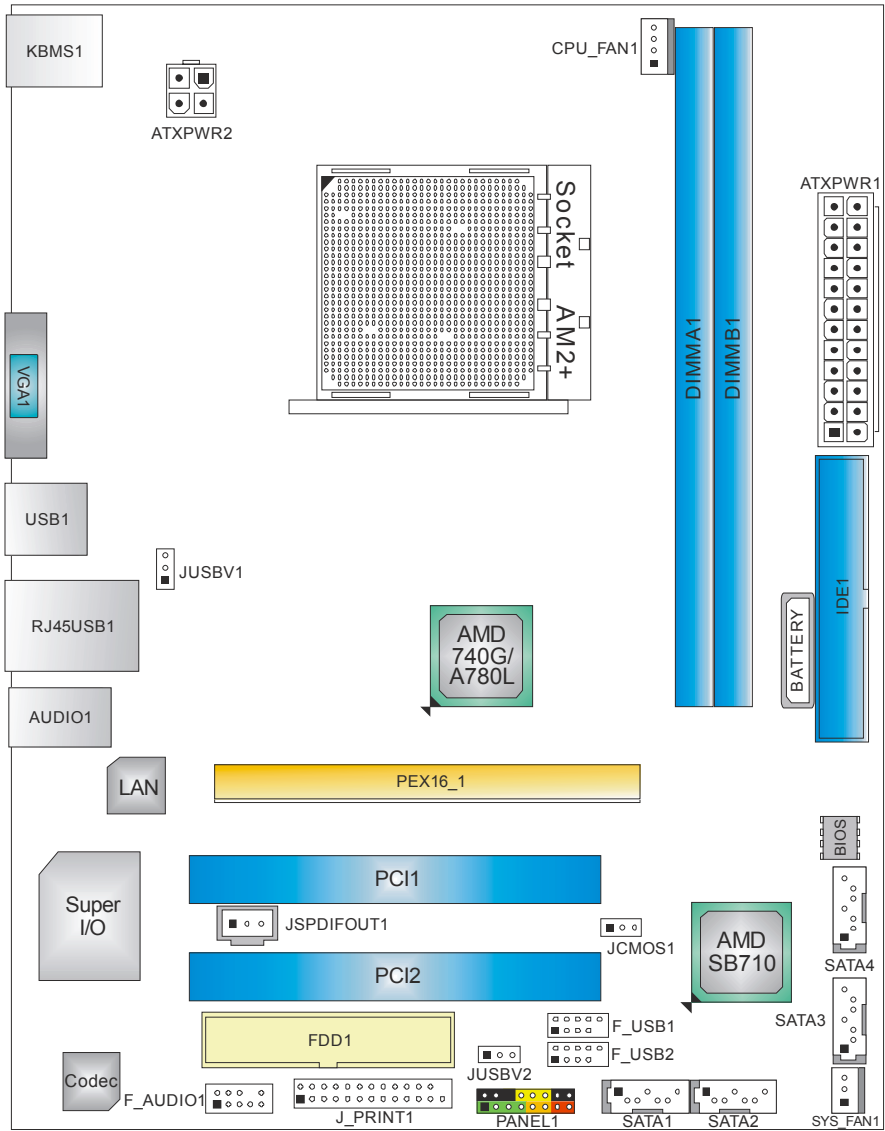
<i>SPEC</i>			
CPU	Socket AM2+ AMD Sempron / Athlon / Athlon II / Phenom / Phenom II processors (Maximum Watt: 95W)		AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport 2.0
FSB	Support HyperTransport 2.0 Supports up to 2 GT/s Bandwidth		
Chipset	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710		
Super I/O	ITE 8718F Provides the most commonly used legacy Super I/O functionality		Low Pin Count Interface Environment Control initiatives H/W Monitor ITE's "Smart Guardian" function
Main Memory	DDR2 DIMM Slots x 2 Max Memory Capacity 8GB Each DIMM supports 256MB/512MB/1GB/2GB/4GB DDR2		Dual Channel Mode DDR2 memory module Supports DDR2 533 / 667 / 800 Supports DDR2 1066 (by AM2+/AM3 CPU) Registered DIMM and ECC DIMM is not supported
Graphics	Integrated in AMD 740G Chipset		Max Shared Video Memory is 512MB Avivo support
IDE	Integrated IDE Controller		Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4,
SATA II	Integrated Serial ATA Controller		Data transfer rates up to 3 Gb/s SATA Version 2.0 specification compliant
LAN	Realtek RTL 8102EL/8103EL/8106E		10 / 100 Mb/s auto negotiation
Sound	ALC662		5.1 channels audio out High Definition Audio
Slots	PCI Express X16 slot x1 PCI slot x2		Supports PCI-E X16 expansion cards Supports PCI expansion cards
On Board Connectors	Floppy Connector x1 IDE Connector x1 SATA Connector x4 Front Panel Connector x1 Front Audio Connector x1		Each connector supports 2 Floppy drives Each connector supports 2 IDE device Each connector supports 1 SATA devices Supports front panel facilities Supports front panel audio function

SPEC			
	S/PDIF out Connector	x1	Supports digital audio out function
	CPU Fan Header	x1	CPU Fan power supply (with Smart Fan function)
	System Fan Header	x1	System Fan Power supply
	CMOS clear Header	x1	Restore CMOS data to factory default
	USB Connector	x2	Each connector supports 2 front panel USB ports
	Power Connector (24pin)	x1	Connects to Power supply
	Power Connector (4pin)	x1	Connects to Power supply
	Printer Port Connector	x1	Each connector supports 1 Printer port
Back Panel I/O	PS/2 Keyboard	x1	Connects to PS/2 Keyboard
	PS/2 Mouse	x1	Connects to PS/2 Mouse
	VGA port	x1	Connect to D-SUB monitor
	LAN port	x1	Connect to RJ-45 Ethernet cable
	USB Port	x4	Connect to USB devices
	Audio Jack	x3	Provide Audio-In/Out and microphone connection
Board Size	182 mm(W) x 235 mm(L)		
Special Features	RAID 0 / 1 / 1+0 support		
OS Support	Windows XP / Vista 32 / Vista 64 / 7		Biostar reserves the right to add or remove support for any OS With or without notice.

1.4 REAR PANEL CONNECTORS



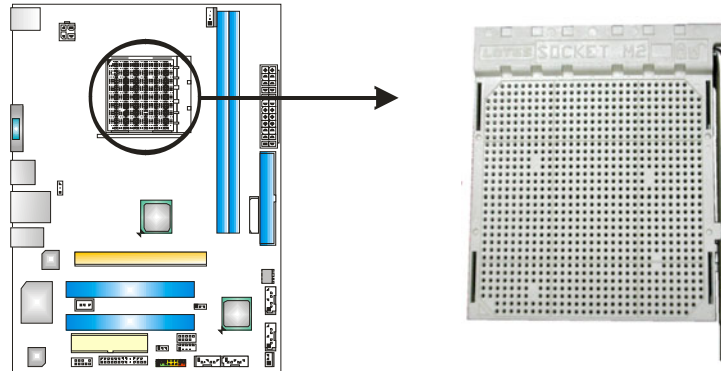
1.5 MOTHERBOARD LAYOUT



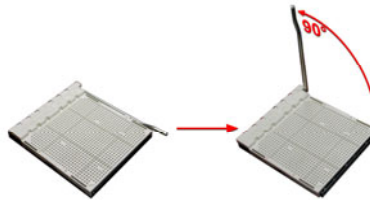
Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

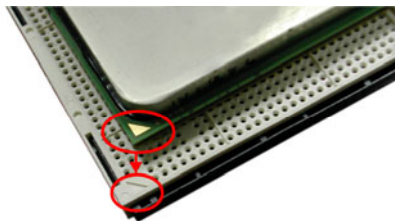
2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



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

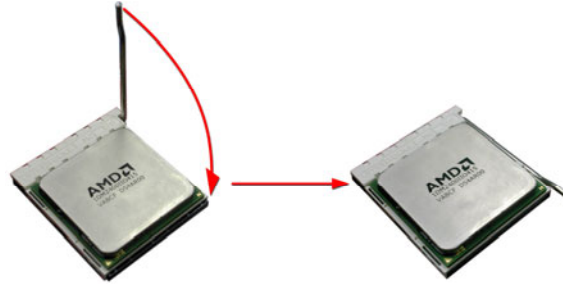


Step 2: Look for the white triangle on socket, and the gold triangle on CPU should point towards this white triangle. The CPU will fit only in the correct orientation.



Motherboard Manual

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



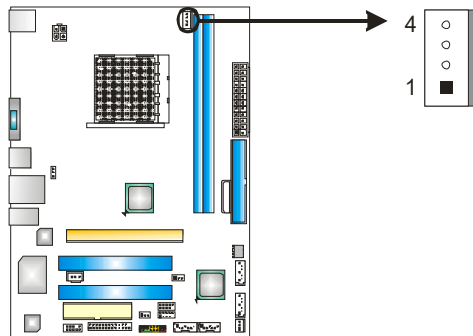
Step 4: Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the CPU_FAN1. This completes the installation.

Note: Please update the BIOS to the latest version while using AM2+/AM3 CPUs. Due to the latest CPU transition, you may encounter the situation that the new system failed to boot while using new AM2+/AM3 CPUs. In this case, please install one standard AM2 CPU to boot your system, and update the latest BIOS from our website for AM2+/AM3 CPUs support.

2.2 FAN HEADERS

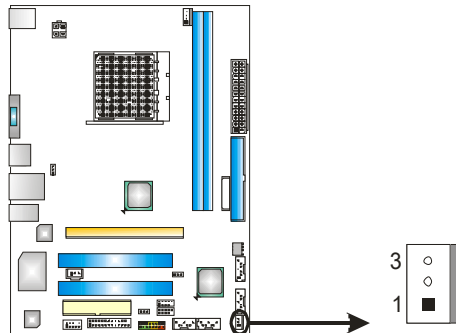
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different due to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU_FAN1: CPU Fan Header



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

SYS_FAN1: System Fan Header



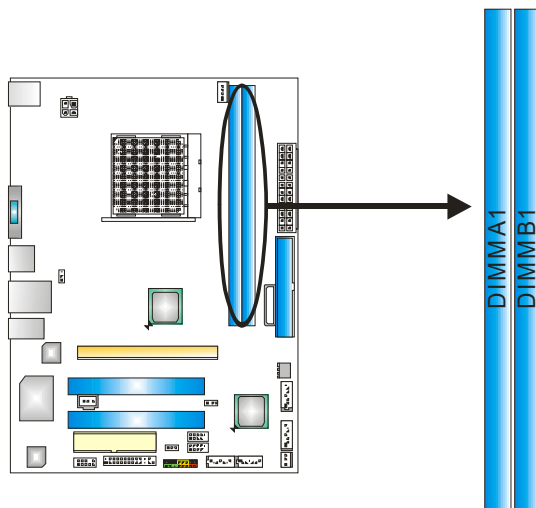
Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

Note:

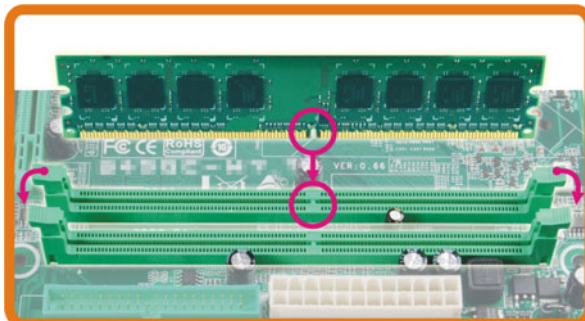
The CPU_FAN1 supports 4-pin head connector. The SYS_FAN1 supports 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

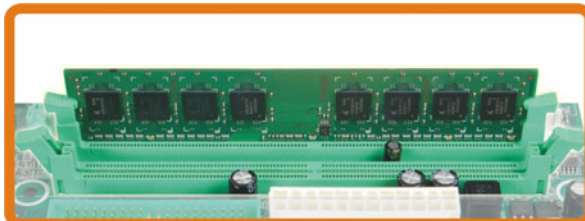
A. Memory Modules



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



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



B. Memory Capacity

DIMM Socket Location	DDR2 Module	Total Memory Size
DIMMA1	256MB/512MB/1GB/2GB/4GB	Max is 8GB.
DIMMB1	256MB/512MB/1GB/2GB/4GB	

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	DIMMA1	DIMMB1
Disabled	O	X
Disabled	X	O
Enabled	O	O

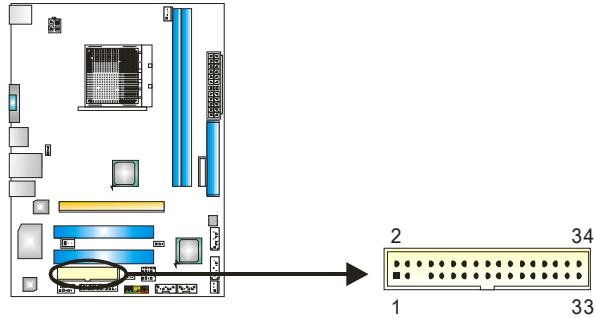
(O means memory installed, X means memory not installed.)

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

2.4 CONNECTORS AND SLOTS

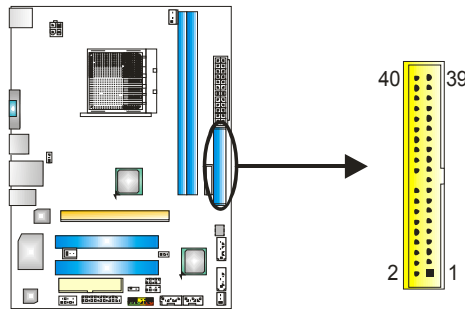
FDD1: Floppy Disk Connector

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types.



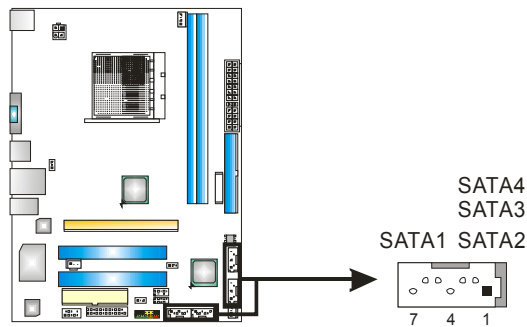
IDE1: Hard Disk Connector

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/66/100/133 functionality.



SATA1~SATA4: Serial ATA Connectors

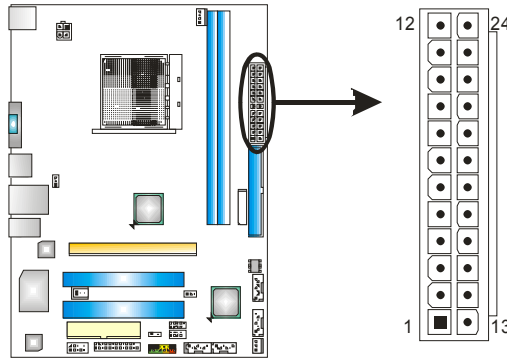
The motherboard has a PCI to SATA Controller with 4 channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3Gb/s.



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

ATXPWR1: ATX Power Source Connector

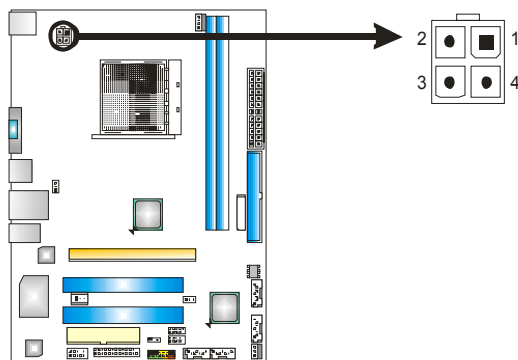
This connector allows user to connect 24-pin power connector on the ATX power supply.



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

Connecting this connector provides +12V to CPU power circuit.



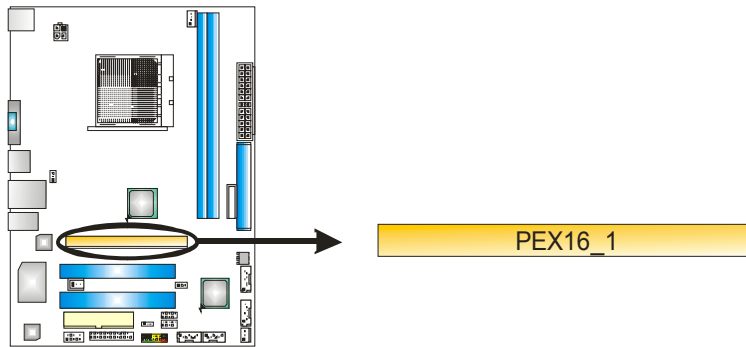
Pin	Assignment
1	+12V
2	+12V
3	Ground
4	Ground

Note:

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

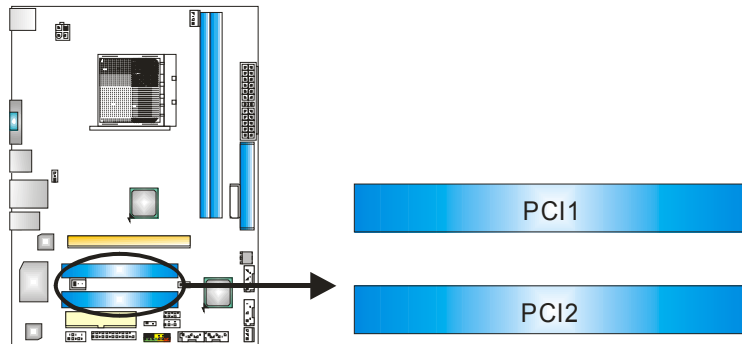
PEX16_1: PCI-Express X16 Slot

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 16GB/s totally.
- PCI-Express supports a raw bit-rate of 2.5Gb/s on the data pins.



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.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

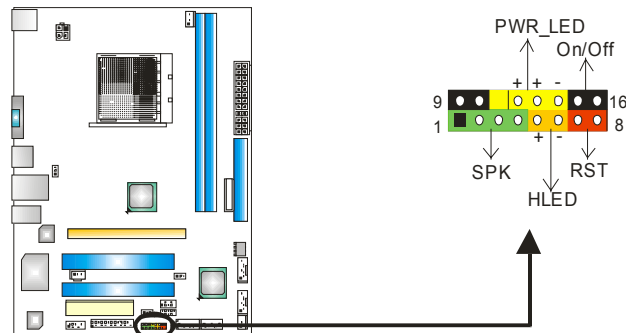
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

PANEL1: Front Panel Header

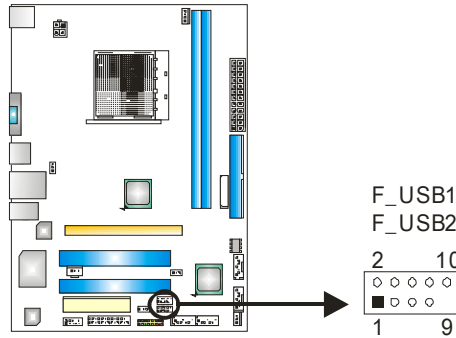
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



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

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

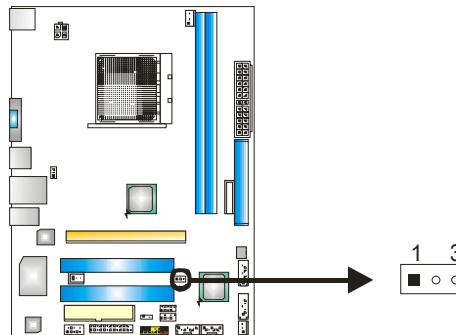
These headers allow user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



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

JCMOS1: Clear CMOS Header

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



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



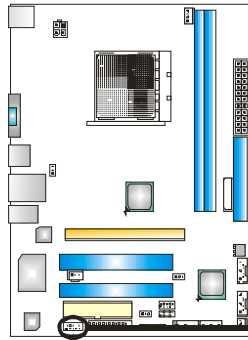
Pin 2-3 Close:
Clear CMOS data.

※ Clear CMOS Procedures:

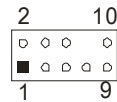
1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

F_AUDIO1: Front Panel Audio Header

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

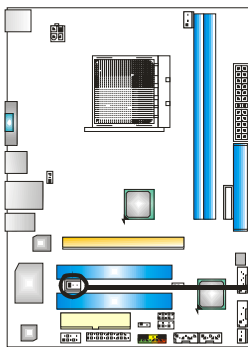


Pin	Assignment
1	Mic Left in
2	Ground
3	Mic Right in
4	GPIO
5	Right line in
6	Jack Sense
7	Front Sense
8	Key
9	Left line in
10	Jack Sense

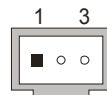


JSPDIFOUT1: Digital Audio-out Connector

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

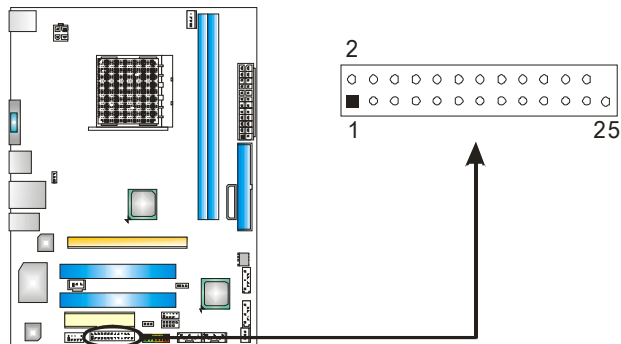


Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground



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	-Sctin	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

JUSBV1/JUSBV2: Power Source Headers for USB Ports

Pin 1-2 Close:

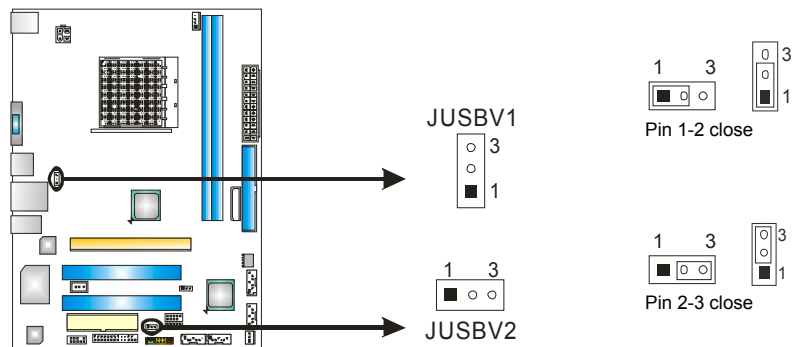
JUSBV1: +5V for USB ports at USB1/RJ45USB1.

JUSBV2: +5V for USB ports at front panel (F_USB1/F_USB2).

Pin 2-3 Close:

JUSBV1: +5V STB for USB ports at USB1/RJ45USB1.

JUSBV2: +5V STB for USB ports at front panel (F_USB1/F_USB2).



CHAPTER 4: RAID FUNCTIONS

4.1 OPERATING SYSTEM

Supports Windows XP Home/Professional Edition, and Windows Vista.

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 1+0: RAID 1+0 combines the techniques used in RAID 0 and RAID 1.

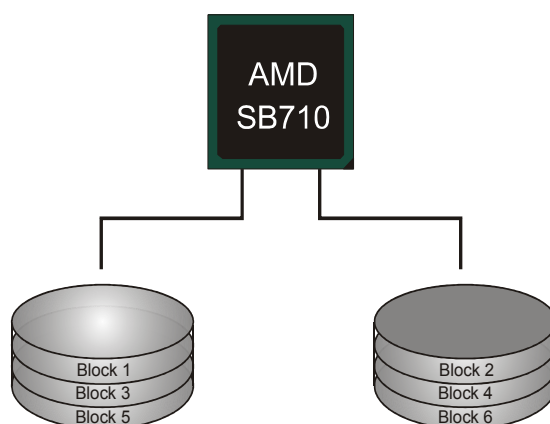
4.3 How RAID WORKS

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 1, 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.



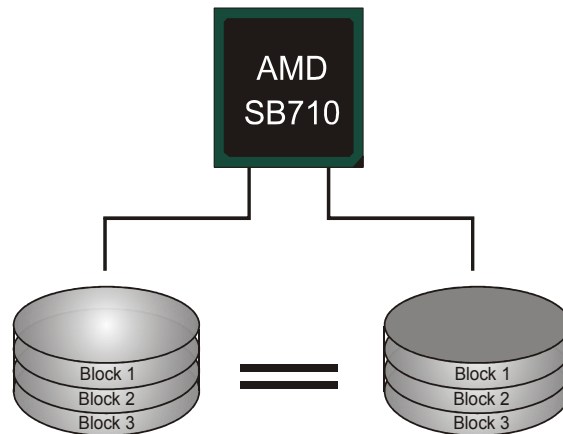
RAID 1:

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.

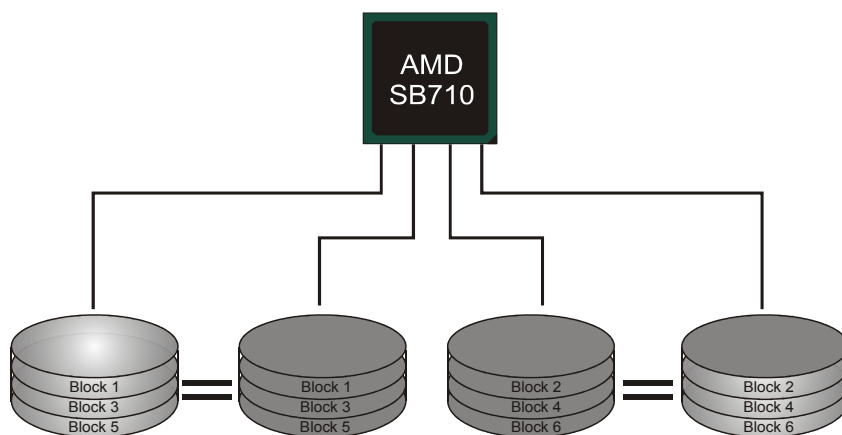


RAID 1+0:

RAID 1 drives can be striped using RAID 0 techniques. Resulting in a RAID 1+0 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.

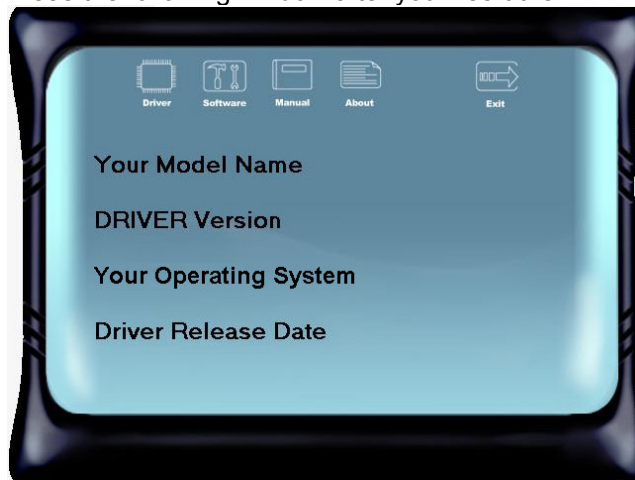


CHAPTER 5: USEFUL HELP

5.1 DRIVER INSTALLATION NOTE

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

You will see the following window after you insert the DVD



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

Note:

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

A. Driver Installation

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

B. Software Installation

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

C. Manual

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

Note:

You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from

<http://www.adobe.com/products/acrobat/readstep2.html>

5.2 SOFTWARE

Installing Software

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

Launching Software

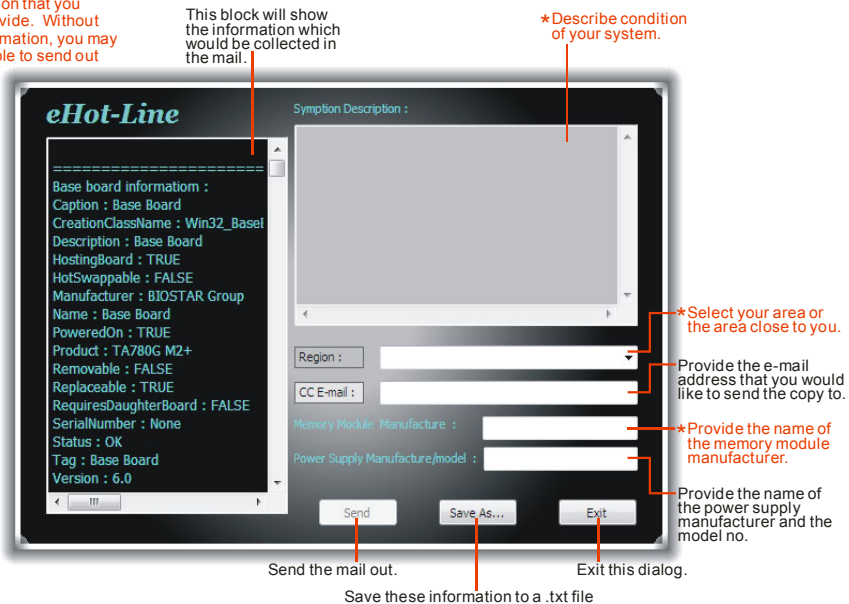
After the installation process, you will see the software icon “eHOT Line” / “BIOS Update” appears on the desktop. Double-click the icon to launch the utility.

eHot-Line (Optional)

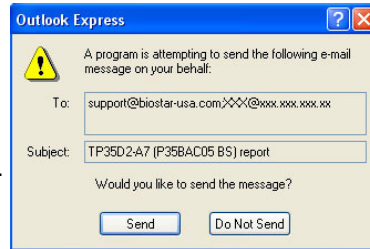
eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.

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

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

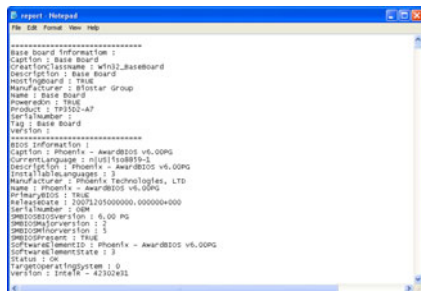
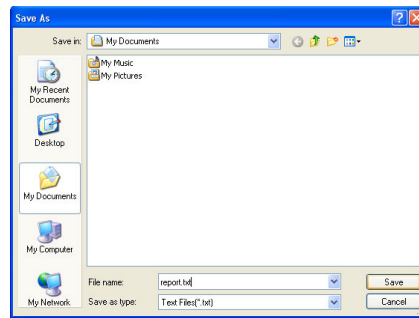


After filling up this information, click **“Send”** to send the mail out. A warning dialog would appear asking for your confirmation; click **“Send”** to confirm or **“Do Not Send”** to cancel.



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 included in the sent mail.



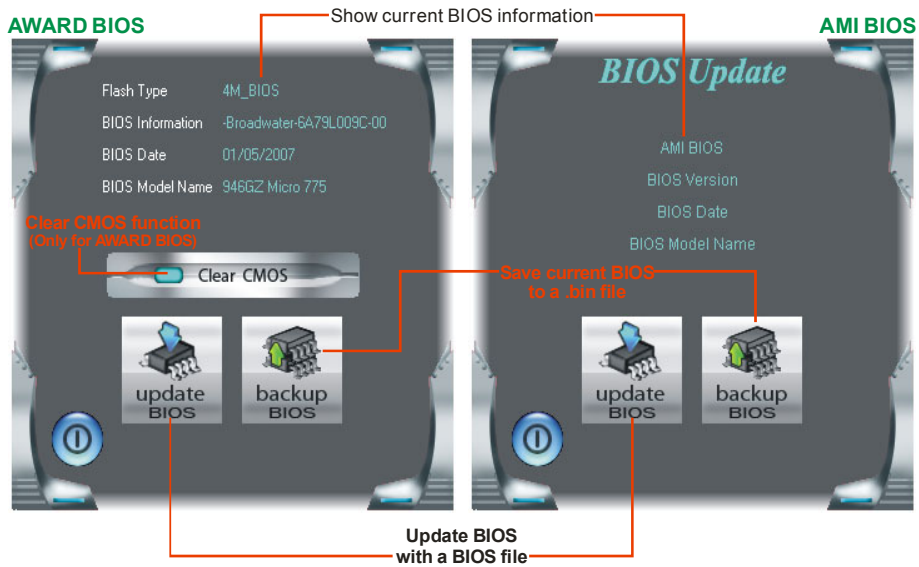
We will not share customer’s data with any other third parties, so please feel free to provide your system information while using eHot-Line service.



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.

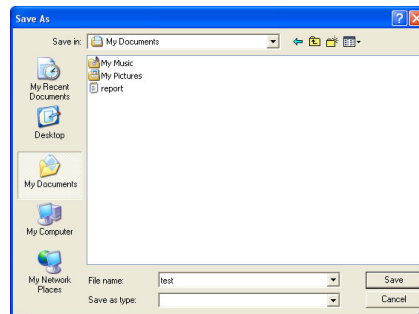
BIOS Update

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



<Backup BIOS>

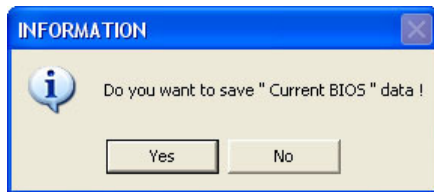
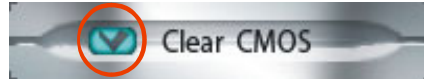
Once click on this button, the saving dialog will show. Choose the position to save file and enter file name. (We recommend that the file name should be English/number and no longer than 7 characters.) Then click **Save**.



<Update BIOS>

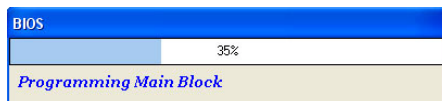
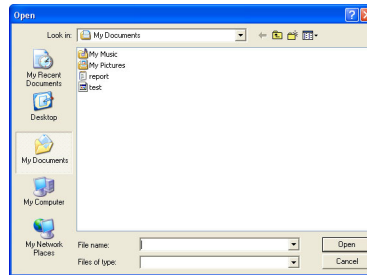
Before doing this, please download the proper BIOS file from the website.

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



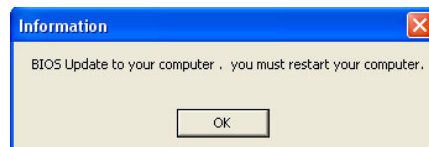
Then click Update BIOS button, a dialog will show for asking you backup current BIOS. Click **Yes** for BIOS backup and refer to the Backup BIOS procedure; or click **No** to skip this procedure.

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 <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.

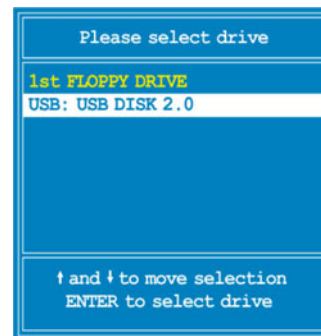
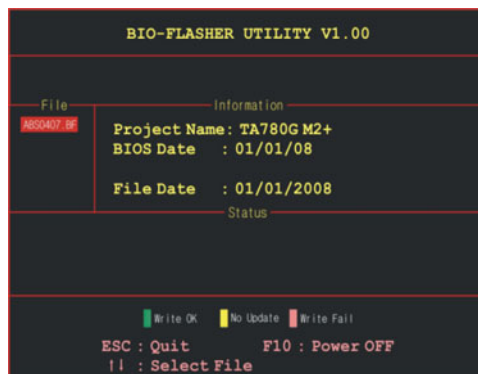
BIO-Flasher

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 TROUBLESHOOTING

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

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APPENDIX: SPEC IN OTHER LANGUAGES**GERMAN**

<i>Spezifikationen</i>		
CPU	Socket AM2+ AMD Sempron / Athlon / Athlon II / Phenom / Phenom II Prozessoren (Maximales Watt: 95W)	Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport 2.0
FSB	Unterstützt HyperTransport 2.0 mit einer Bandbreite von bis zu 2 GT/s	
Chipsatz	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
Super E/A	ITE8718F Bietet die häufig verwendeten alten Super E/A-Funktionen.	Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR2 DIMM-Steckplätze x 2 Max. 8GB Arbeitsspeicher Jeder DIMM unterstützt 256MB/512MB/1GB/2GB/4GB DDR2.	Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 533 / 667 / 800 Unterstützt DDR2 1066 (by AM2+/AM3 CPU) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
Grafik	Integrierter AMD 740G-Chipsatz	Max. 512MB gemeinsam benutzter Videospeicher Unterstützt Avivo
IDE	Integrierter IDE-Controller	Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,
SATA	Integrierter Serial ATA-Controller	Datentransferate bis zu 3 Gb/s Konform mit der SATA-Spezifikation Version 2.0.
LAN	Realtek RTL 8102EL/8103EL/8106E	10 / 100 Mb/s Auto-Negotiation
HD Audio-Unterstützung	ALC662	5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio
Steckplätze	PCI Express X16 Steckplatz x1 PCI-Steckplatz x2	
Onboard-Ans	Diskettenlaufwerkanschluss x1 IDE-Anschluss x1	Jeder Anschluss unterstützt 2 Diskettenlaufwerke Jeder Anschluss unterstützt 2 IDE-Laufwerke

Spezifikationen			
Anschluss	SATA-Anschluss	x4	Jeder Anschluss unterstützt 1 SATA-Laufwerk
	Fronttafelanschluss	x1	Unterstützt die Fronttafel-Funktionen
	Front-Audioanschluss	x1	Unterstützt die Fronttafel-Audioanschlussfunktion
	S/PDIF Ausgangsanschluss	x1	Unterstützt die digitale Audioausgabefunktion
	CPU-Lüfter-Sockel	x1	CPU-Lüfterstromversorgungsanschluss (mit Smart Fan-Funktion)
	System-Lüfter-Sockel	x1	System-Lüfter-Stromversorgungsanschluss
	"CMOS löschen"-Sockel	x1	
	USB-Anschluss	x2	Jeder Anschluss unterstützt 2 Fronttafel-USB-Anschlüsse
	Stromanschluss (24-polig)	x1	
	Stromanschluss (4-polig)	x1	
Rückseiten-E/A	Druckeranschluss	x1	Jeder Anschluss unterstützt 1 Druckeranschluss
	PS/2-Tastatur	x1	
	PS/2-Maus	x1	
	VGA-Anschluss	x1	
	LAN-Anschluss	x1	
	USB-Anschluss	x4	
Platinengröße	Audioanschluss	x3	
		182 mm (B) X 235 mm (L)	
Sonderfunktionen		Unterstützt RAID 0 / 1 / 1+0	
OS-Unterstützung	Windows XP / Vista 32 / Vista 64 / 7		Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

FRENCH

SPEC		
UC	Socket AM2+ Processeurs AMD Sempron / Athlon / Athlon II / Phenom / Phenom II (Watt maximum : 95W)	L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport 2.0
Bus frontal	Prend en charge Hyper Transport 2.0 jusqu'à une bande passante de 2 GT/s	
Chipset	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
Super E/S	ITE 8718F Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée.	Interface à faible compte de broches Initiatives de contrôle environnementales, Moniteur de matériel Fonction "Gardien intelligent" de l'ITE
Mémoire principale	Fentes DDR2 DIMM x 2 Capacité mémoire maximale de 8 Go Chaque DIMM prend en charge des DDR2 de 256Mo/512Mo/1Go/2Go/4Go	Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 533 / 667 / 800 Prend en charge la DDR2 1066 (by AM2+/AM3 CPU) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
Graphiques	Intégré dans la chipset AMD 740G	Mémoire vidéo partagée maximale de 512 Mo Prise en charge Avivo
IDE	Contrôleur IDE intégré	Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,
SATA	Contrôleur Serial ATA intégré	Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0
LAN	Realtek RTL 8102EL/8103EL/8106E	10 / 100 Mb/s négociation automatique
Prise en charge audio HD	ALC662	Sortie audio à 5.1 voies Prise en charge de l'audio haute définition
Fentes	Fente PCI Express X16 x1 Fente PCI x2	
Connecteur embarqué	Connecteur de disquette x1 Connecteur IDE x1	Chaque connector prend en charge 2 lecteurs de disquettes Chaque connecteur prend en charge 2 périphériques IDE

SPEC			
	Connecteur SATA	x4	Chaque connecteur prend en charge 1 périphérique SATA
	Connecteur du panneau avant	x1	Prend en charge les équipements du panneau avant
	Connecteur Audio du panneau avant	x1	Prend en charge la fonction audio du panneau avant
	Connecteur de sortie S/PDIF	x1	Prend en charge la fonction de sortie audio numérique
	Embase de ventilateur UC	x1	Alimentation électrique du ventilateur UC (avec fonction de ventilateur intelligent)
	Embase de ventilateur système	x1	Alimentation électrique du ventilateur système
	Embase d'effacement CMOS	x1	
	Connecteur USB	x2	Chaque connecteur prend en charge 2 ports USB de panneau avant
	Connecteur d'alimentation (24 broches)	x1	
	Connecteur d'alimentation (4 broches)	x1	
	Connecteur de Port d'imprimante	x1	Chaque connector prend en charge 1 Port d'imprimante
E/S du panneau arrière	Clavier PS/2	x1	
	Souris PS/2	x1	
	Port VGA	x1	
	Port LAN	x1	
	Port USB	x4	
	Fiche audio	x3	
Dimension s de la carte	182 mm (l) X 235 mm (H)		
Fonctionnalités spéciales	Prise en charge RAID 0 / 1 / 1+0		
Support SE	Windows XP / Vista 32 / Vista 64 / 7		Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

ITALIAN

SPECIFICA		
CPU	Socket AM2+ Processori AMD Sempron / Athlon / Athlon II / Phenom / Phenom II (Watt massimo: 95W)	L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport 2.0
FSB	Supporto di HyperTransport 2.0 fino a 2 GT/s di larghezza di banda	
Chipset	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
Super I/O	ITE 8718F Fornisce le funzionalità legacy Super I/O usate più comunemente.	Interfaccia LPC (Low Pin Count) Funzioni di controllo dell'ambiente: Monitoraggio hardware Funzione "Smart Guardian" di ITE
Memoria principale	Alloggi DIMM DDR2 x 2 Capacità massima della memoria 8GB Ciascun DIMM supporta DDR2 256MB/512MB/1GB/2GB/4GB	Modulo di memoria DDR2 a canale doppio Supporto di DDR2 533 / 667 / 800 Supporto di DDR2 1066 (by AM2+/AM3 CPU) DIMM registrati e DIMM ECC non sono supportati
Grafica	Integrata nel Chipset AMD 740G	La memoria video condivisa massima è di 512 MB Supporto Avivo
IDE	Controller IDE integrato	Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4
SATA	Controller Serial ATA integrato	Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0.
LAN	Realtek RTL 8102EL/8103EL/8106E	Negoziazione automatica 10 / 100 Mb/s
Supporto audio HD	ALC662	Uscita audio 5.1 canali Supporto audio High-Definition (HD)
Alloggi	Alloggio PCI Express X16 x1 Alloggio PCI x2	
Connettori su scheda	Connettore floppy x1 Connettore IDE x1 Connettore SATA x4	Ciascun connettore supporta 2 unità Floppy Ciascun connettore supporta 2 unità IDE Ciascun connettore supporta 1 unità SATA

SPECIFICA			
	Connettore pannello frontale	x1	Supporta i servizi del pannello frontale
	Connettore audio frontale	x1	Supporta la funzione audio pannello frontale
	Connettore output S/PDIF	x1	Supporta la funzione d'output audio digitale
	Collettore ventolina CPU	x1	Alimentazione ventolina CPU (con funzione Smart Fan)
	Collettore ventolina sistema	x1	Alimentazione ventolina di sistema
	Collettore cancellazione CMOS	x1	
	Connettore USB	x2	Ciascun connettore supporta 2 porte USB pannello frontale
	Connettore alimentazione (24 pin)	x1	
	Connettore alimentazione (4 pin)	x1	
	Connettore Porta stampante	x1	Ciascun connettore supporta 1 Porta stampante
I/O pannello posteriore	Tastiera PS/2	x1	
	Mouse PS/2	x1	
	Porta VGA	x1	
	Porta LAN	x1	
	Porta USB	x4	
	Connettore audio	x3	
Dimensioni scheda	182 mm (larghezza) x 235 mm (altezza)		
Caratteristiche speciali	Supporto RAID 0 / 1 / 1+0		
Sistemi operativi supportati	Windows XP / Vista 32 / Vista 64 / 7		Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

<i>Especificación</i>		
CPU	Conector AM2+ Procesadores AMD Sempron / Athlon / Athlon II / Phenom / Phenom II (Vatio máximo: 95W)	La arquitectura AMD 64 permite el procesado de 32 y 64 bits Soporta las tecnologías Hyper Transport 2.0
FSB	Admite HyperTransport 2.0 con un ancho de banda de hasta 2 GT/s	
Conjunto de chips	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
Súper E/S	ITE 8718F Le ofrece las funcionalidades heredadas de uso más común Súper E/S.	Interfaz de cuenta Low Pin Iniciativas de control de entorno, Monitor hardware Función "Guardia inteligente" de ITE
Memoria principal	Ranuras DIMM DDR2 x 2 Capacidad máxima de memoria de 8GB Cada DIMM admite DDR de 256MB/512MB/1GB/2GB/4GB	Módulo de memoria DDR2 de canal Doble Admite DDR2 de 533 / 667 / 800 Admite DDR2 de 1066 (by AM2+/AM3 CPU) No admite DIMM registrados o DIMM compatibles con ECC
Gráficos	Integrados en el conjunto de chips AMD 740G	Memoria máxima de vídeo compartida de 512 MB Admite Avivo
IDE	Controlador IDE integrado	Modo bus maestro Ultra DMA 33 / 66 / 100 / 133 Soporte los Modos PIO 0~4,
SATA	Controlador ATA Serie Integrado	Tasas de transferencia de hasta 3 Gb/s. Compatible con la versión SATA 2.0.
Red Local	Realtek RTL 8102EL/8103EL/8106E	Negociación de 10 / 100 Mb/s
Soporte de sonido HD	ALC662	Salida de sonido de 5.1 canales Soporte de sonido Alta Definición
Ranuras	Ranura PCI Express X16 X1 Ranura PCI X2	
Conectores en placa	Conector disco flexible X1 Conector IDE X1 Conector SATA X4 Conector de panel frontal X1 Conector de sonido frontal X1	Cada conector soporta 2 unidades de disco flexible Cada conector soporta 2 dispositivos IDE Cada conector soporta 1 dispositivos SATA Soporta instalaciones en el panel frontal Soporta funciones de sonido en el panel frontal

Especificación			
	Conector de salida S/PDIF	X1	Soporta función de salida de sonido digital
	Cabecera de ventilador de CPU	X1	Fuente de alimentación de ventilador de CPU (con función Smart Fan)
	Cabecera de ventilador de sistema	X1	Fuente de alimentación de ventilador de sistema
	Cabecera de borrado de CMOS	X1	
	Conector USB	X2	Cada conector soporta 2 puertos USB frontales
	Conector de alimentación (24 patillas)	X1	
	Conector de alimentación (4 patillas)	X1	
	Conector Puerto de impresora	X1	Cada conector soporta 1 Puerto de impresora
Panel trasero de E/S	Teclado PS/2	X1	
	Ratón PS/2	X1	
	Puerto VGA	X1	
	Puerto de red local	X1	
	Puerto USB	X4	
	Conector de sonido	X3	
Tamaño de la placa	182 mm. (A) X 235 Mm. (H)		
Funciones especiales	Admite RAID 0 / 1 / 1+0		
Soporte de sistema operativo	Windows XP / Vista 32 / Vista 64 / 7		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

PORTUGUESE

ESPECIFICAÇÕES		
CPU	Socket AM2+ Processadores AMD Sempron / Athlon / Athlon II / Phenom / Phenom II (Watt máximo: 95W)	A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport 2.0
FSB	Suporta a tecnologia HyperTransport 2.0 com uma largura de banda até 2 GT/s	
Chipset	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
Especificação Super I/O	ITE 8718F 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 Função "Smart Guardian" da ITE
Memória principal	Ranuras DIMM DDR2 x 2 Capacidade máxima de memória: 8 GB Cada módulo DIMM suporta uma memória DDR2 de 256MB/512MB/1GB/2GB/4GB	Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 533 / 667 / 800 Suporta módulos DDR2 1066 (by AM2+/AM3 CPU) Os módulos DIMM registados e os DIMM ECC não são suportados
Placa gráfica	Integrada no chipset AMD 740G	Memória de vídeo máxima partilhada: 512 MB Suporta as funções Avivo
IDE	Controlador IDE integrado	Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,
SATA	Controlador Serial ATA integrado	Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0.
LAN	Realtek RTL 8102EL/8103EL/8106E	Auto negociação de 10 / 100 Mb/s
Suporte para áudio de alta definição	ALC662	Saída de áudio de 5.1 canais Suporta a especificação High-Definition Audio
Ranuras	Ranhura PCI Express X16 x1 Ranhura PCI x2	
Conectores na placa	Conector da unidade de disquetes x1 Conector IDE x1	Cada conector suporta 2 unidades de disquetes Cada conector suporta 2 dispositivos IDE

ESPECIFICAÇÕES			
	Conector SATA	x4	Cada conector suporta 1 dispositivo SATA
	Conector do painel frontal	x1	Para suporte de várias funções no painel frontal
	Conector de áudio frontal	x1	Suporta a função de áudio no painel frontal
	Conector de saída S/PDIF	x1	Suporta a saída de áudio digital
	Conector da ventoinha da CPU	x1	Alimentação da ventoinha da CPU (com a função Smart Fan)
	Conector da ventoinha do sistema	x1	Alimentação da ventoinha do sistema
	Conector para limpeza do CMOS	x1	
	Conector USB	x2	Cada conector suporta 2 portas USB no painel frontal
	Conector de alimentação (24 pinos)	x1	
	Conector de alimentação (4 pinos)	x1	
	Conector da para impressora	x1	Cada conector suporta 1 Porta para impressora
Entradas/Saídas no painel traseiro	Teclado PS/2	x1	
	Rato PS/2	x1	
	Porta VGA	x1	
	Porta LAN	x1	
	Porta USB	x4	
	Tomada de áudio	x3	
Tamanho da placa	182 mm (L) X 235 mm (A)		
Características especiais	Suporta as funções RAID 0 / 1 / 1+0		
Sistemas operativos suportados	Windows XP / Vista 32 / Vista 64 / 7		A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.

POLISH

SPEC		
Procesor	Socket AM2+ AMD Sempron / Athlon / Athlon II / Phenom / Phenom II Procesory (Maksymalny Watt: 95W)	Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport 2.0
FSB	Obsługa HyperTransport 2.0 o szerokości pasma do 2 GT/s	
Chipset	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
Pamięć główna	Gniazda DDR2 DIMM x 2 Maks. wielkość pamięci 8GB Każde gniazdo DIMM obsługuje moduły 256MB/512MB/1GB/2GB/4GB DDR2	Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 533 / 667 / 800 Obsługa DDR2 1066 (by AM2+/AM3 CPU) Brak obsługi Registered DIMM oraz ECC DIMM
Super I/O	ITE 8718F Zapewnia najbardziej powszechne funkcje Super I/O.	Interfejs Low Pin Count Funkcje kontroli warunków pracy, Monitor H/W Funkcja ITE "Smart Guardian"
Grafika	Zintegrowana w chipsecie AMD 740G	Maks. wielkość współdzielonej pamięci video wynosi 512 MB Obsługa Avivo
IDE	Zintegrowany kontroler IDE	Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,
SATA	Zintegrowany kontroler Serial ATA	Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.
LAN	Realtek RTL 8102EL/8103EL/8106E	10 / 100 Mb/s z automatyczną negocjacją szybkości
Obsługa audio HD	ALC662	5.1 kanałowe wyjście audio Obsługa High-Definition Audio
Gniazda	Gniazdo PCI Express X16 x1 Gniazdo PCI x2	
Złącza wbudowane	Złącze napędu dyskietek x1 Złącze IDE x1 Złącze SATA x4	Każde złącze obsługuje 2 napędy dyskietek Każde złącze obsługuje 2 urządzenia IDE Każde złącze obsługuje 1 urządzenie SATA

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SPEC			
	Złącze panela przedniego	x1	Obsługa elementów panela przedniego
	Przednie złącze audio	x1	Obsługa funkcji audio na panelu przednim
	Złącze wyjścia S/PDIF	x1	Obsługa funkcji cyfrowego wyjścia audio
	Złącze główkowe wentylatora procesora	x1	Zasilanie wentylatora procesora (z funkcją Smart Fan)
	Złącze główkowe wentylatora systemowego	x1	Zasilanie wentylatora systemowego
	Złącze główkowe kasowania CMOS	x1	
	Złącze USB	x2	Każde złącze obsługuje 2 porty USB na panelu przednim
	Złącze zasilania (24 pinowe)	x1	
	Złącze zasilania (4 pinowe)	x1	
	Złącze Port drukarki	x1	Każde złącze obsługuje 1 Port drukarki
Back Panel	Klawiatura PS/2	x1	
I/O	Mysz PS/2	x1	
	Port VGA	x1	
	Port LAN	x1	
	Port USB	x4	
	Gniazdo audio	x3	
Wymiary płyty	182 mm (S) X 235 mm (W)		
Funkcje specjalne	Obsługa RAID 0 / 1 / 1+0		
Obsługa systemu operacyjnego	Windows XP / Vista 32 / Vista 64 / 7		Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

RUSSIAN

СПЕЦ		
CPU (центральный процессор)	Гнездо AM2+ Процессоры AMD Sempron / Athlon / Athlon II / Phenom / Phenom II (Максимальный ватт: 95W)	Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит Поддержка Hyper Transport 2.0
FSB	Поддержка HyperTransport 2.0 с пропускной способностью до 2 GT/s	
Набор микросхем	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
Основная память	Слоты DDR2 DIMM x 2 Максимальная ёмкость памяти 8 ГБ Каждый модуль DIMM поддерживает 256МБ/512МБ/1ГБ/2ГБ/4ГБ DDR2	Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 533 / 667 / 800 Поддержка DDR2 1066 (by AM2+/AM3 CPU) Не поддерживает зарегистрированные модули DIMM and ECC DIMM
Super I/O	ITE 8718F Обеспечивает наиболее используемые действующие функциональные возможности Super I/O.	Интерфейс с низким количеством выводов Инициативы по охране окружающей среды, Аппаратный монитор Функция ITE "Smart Guardian" (Интеллектуальная защита)
Графика	Встроенная в набор микросхем AMD 740G	Максимальная совместно используемая видео память составляет 512 МБ Поддержка Avivo
IDE	Встроенное устройство управления встроенными интерфейсами устройств	Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,
SATA	Встроенное последовательное устройство управления ATA	скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0.
Локальная сеть	Realtek RTL 8102EL/8103EL/8106E	Автоматическое согласование 10 / 100 Мб/с
Звуковая поддержка жесткого диска	ALC662	Звуковая поддержка High-Definition 5.1канальный звуковой выход
Слоты	Слот PCI Express X16 x1 Слот PCI x2	
Встроенный разъём	Разъём НГМД x1 Разъём IDE x1	Каждый разъём поддерживает 2 накопителя на гибких магнитных дисках Каждый разъём поддерживает 2 встроенных интерфейса накопителей

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СПЕЦ			
	Разъём SATA	x4	Каждый разъём поддерживает 1 устройство SATA
	Разъём на лицевой панели	x1	Поддержка устройств на лицевой панели
	Входной звуковой разъём	x1	Поддержка звуковых функций на лицевой панели
	Разъём вывода для S/PDIF	x1	Поддержка вывода цифровой звуковой функции
	Контактирующее приспособление вентилятора центрального процессора	x1	Источник питания для вентилятора центрального процессора (с функцией интеллектуального вентилятора)
	Контактирующее приспособление вентилятора системы	x1	Источник питания для вентилятора системы
	Открытое контактирующее приспособление CMOS	x1	
	USB-разъём	x2	Каждый разъём поддерживает 2 USB-порта на лицевой панели
	Разъём питания (24 вывод)	x1	
	Разъём питания (4 вывод)	x1	
	Разъём Порт подключения принтера	x1	Каждый разъём поддерживает 1 Порт подключения принтера
Задняя панель средств ввода-вывода	Клавиатура PS/2	x1	
	Мышь PS/2	x1	
	Порт VGA	x1	
	Порт LAN	x1	
	USB-порт	x4	
	Гнездо для подключения наушников	x3	
Размер панели	182 мм (Ш) X 235 мм (В)		
Специальные технические характеристики	Поддержка RAID 0 / 1 / 1+0		
Поддержка ОС	Windows XP / Vista 32 / Vista 64 / 7		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для ОС с или без предварительного уведомления.

ARABIC

المواصفات		
وحدة المعالجة المركزية	AM2+ مقيس AMD Sempron / Athlon / Athlon II Phenom II / Phenom (95: قصوى واط)	إجراء العمليات الحاسوبية بسرعة 32 و 64 بت AMD 64 يمكن تقنية و Hyper Transport 2.0 تدعم تقنية
النقل الأممي الجانبي	2 GT/s يتردد يصل إلى HyperTransport 2.0 تدعم تقنية	
مجموعة الشرائح	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
Super I/O	ITE 8718F الأكثر استخداما، Super I/O يوفر وظيفة	Low Pin Count Interface تدعم تقنية وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة ITE من "Smart Guardian" وظيفة
الذاكرة الرئيسية	قناة DDR2 DIMM سعة ذاكرة قصوى 8 جيجا بايت ميغا 256/512 سعة DDR2 تدعم ذاكرة من نوع DIMM تدعم كل قناة بايت و 1/2 و 4 جيجا بايت	عدد 2 مزدوجة القناة DDR2 وحدة ذاكرة سعت 800 / 667 / 533 ميغا بايت DDR2 تدعم الذاكرة من نوع سعت 1066 ميغا بايت DDR2 تدعم الذاكرة من نوع (DDR2 1066 is by AM2+/AM3 CPU) ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة
بطاقة الرسومات	AMD 740G مدمجة في رقائق	ميغا بايت 512 أقصى سعة لذاكرة الفيديو المشتركة Avivo تدعم تقنية
منفذ IDE	متكامل IDE متحكم	وضع رئيسي 133 / 100 / 66 / 33 Ultra DMA نقل بتقنية PIO Mode 0~4 دعم وضع
SATA	متكامل Serial ATA متحكم	جيجابت/ثانية، 3 نقل البيغبت بسرعة تصل إلى 2.0، الإصدار SATA مطابقة لمواصفات
شبكة داخلية	Realtek RTL 8102EL/8103EL/8106E	تفاوض تلقائي 100/10 ميغا بايت / ثانية
دعم الصوت على التعريف	ALC662	قوات لخرج الصوت 5.1 تدعم تقنية الصوت على التعريف من
الفتحات	قناة PCI Express x16 قناة PCI	عدد 1 عدد 2
المنفذ على سطح اللوحة	منفذ محرك أقراص مرنة منفذ IDE منفذ SATA	عدد 1 عدد 1 عدد 4

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المواصفات		
يدعم تجهيزات اللوحة الأمامية	عدد 1	منفذ اللوحة الأمامية
يدعم وظيفة الصوت باللوحة الأمامية	عدد 1	منفذ الصوت الأمامي
يدعم وظيفة خرج الصوت الرقمي	عدد 1	منفذ خرج S/PDIF
Smart Fan لتوصيل الطاقة لمروحة وحدة المعالجة مع وظيفة	عدد 1	وصلة مروحة وحدة المعالجة المركزية
لتوصيل الطاقة لمروحة النظام	عدد 1	وصلة مروحة النظام
	عدد 1	وصلة مسح CMOS
باللوحة الأمامية USB يدعم كل منفذ قحطي	عدد 2	منفذ USB
	عدد 1	منفذ توصيل الطاقة (24نبوس)
	عدد 1	منفذ توصيل الطاقة (4نبوس)
	عدد 1	منفذ طباعة
	عدد 1	لوحة مفاتيح PS/2
	عدد 1	ملوس PS/2
	عدد 1	منفذ VGA
	عدد 1	منفذ شبكة اتصال محلية
	عدد 4	منافذ USB
	عدد 3	مقيس صوت
		حجم اللوحة
		182 مم (عرض) X 235 مم (الارتفاع)
		مزايا خاصة
		RAID 0 / 1 / 1+0 تدعم تقنية
بحقنها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو Biostar تحتفظ بدون إخطار .		دعم أنظمة التشغيل
		Windows XP / Vista 32 / Vista 64 / 7

JAPANESE

仕様		
CPU	Socket AM2+ AMD Sempron / Athlon / Athlon II / Phenom / Phenom II プロセッサ (最高のワット: 95W)	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 ハイパートランスポート2.0とクールアンドクワイアットをサポートします
FSB	2 GT/sのバンド幅までハイパートランスポート2.0をサポートします	
チップセット	AMD 740G (A740G M2L+) AMD 780L (A780LB) AMD SB710	
メインメモリ	DDR2 DIMMスロット x 2 最大メモリ容量8GB 各DIMMは 256MB/512MB/1GB/2GB/4GB DDR2をサポート	デュアル チャンネルモードDDR2メモリモジュール DDR2 533 / 667 / 800 をサポート DDR2 1066 をサポート (by AM2+/AM3 CPU) 登録済みDIMMとECC DIMMはサポートされません
Super I/O	ITE 8718F もっ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 ITEの「スマートガーディアン」機能
グラフィックス	AMD 740Gチップセットに統合	最大の共有ビデオメモリは512MBです Avivo のサポート
IDE	統合IDEコントローラ	Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート、
SATA	統合シリアルATAコントローラ	最高3Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。
LAN	Realtek RTL 8102EL/8103EL/8106E	10 / 100 Mb/秒のオートネゴシエーション
HDオーディオのサポート	ALC662	5.1チャンネルオーディオアウト ハイデフィニションオーディオのサポート
スロット	PCI Express X16スロット x1 PCIスロット x2	
オンボードコネクタ	フロッピーコネクタ x1 IDEコネクタ x1 SATAコネクタ x4 フロントパネルコネクタ x1	各コネクタは2つのフロッピードライブをサポートします 各コネクタは2つのIDEデバイスをサポートします 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

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仕様			
	フロントオーディオコネクタ	x1	フロントパネルオーディオ機能をサポートします
	S/PDIFアウトコネクタ	x1	デジタルオーディオアウト機能をサポートします
	CPUファンヘッド	x1	CPUファン電源装置(スマートファン機能を搭載)
	システムファンヘッド	x1	システムファン電源装置
	CMOSクリアヘッド	x1	
	USBコネクタ	x2	各コネクタは2つのフロントパネルUSB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	
	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
背面パネル I/O	PS/2キーボード	x1	
	PS/2マウス	x1	
	VGAポート	x1	
	LANポート	x1	
	USBポート	x4	
	オーディオジャック	x3	
ボードサイズ	182 mm (幅) X 235 mm (高さ)		
特殊機能	RAID 0 / 1 / 1+0 のサポート		
OSサポート	Windows XP / Vista 32 / Vista 64 / 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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