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Dichiarazione di conformità sintetica

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

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

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

quando ad esso applicabili

Short Declaration of conformity

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

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

whenever these laws may be applied

Table of Contents

CHAPTER 1: INTRODUCTION

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

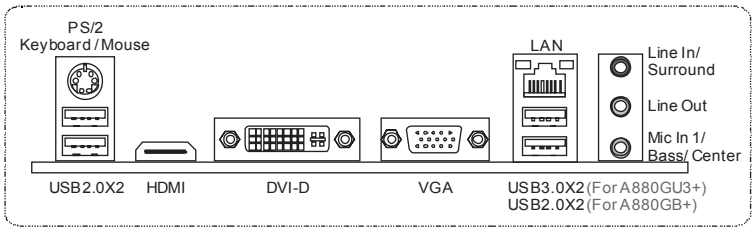
Note: The package contents may be different due to area or your motherboard version.

1.3 MOTHERBOARD FEATURES

	A880GU3+	*A880GB+*
CPU	Socket AM3 AMD Sempron/Athlon II/Phenom II processors AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport 3.0 and Cool=n=Quiet (Maximum Watt: 125W)	Socket AM3 AMD Sempron/Athlon II/Phenom II processors AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport 3.0 and Cool=n=Quiet (Maximum Watt: 125W)
FSB	Support HyperTransport 3.0 Supports up to 5.2 GT/s Bandwidth	Support HyperTransport 3.0 Supports up to 5.2 GT/s Bandwidth
Chipset	AMD 880G AMD SB850	AMD 880G AMD SB850
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 ITE's "Smart Guardian" function	ITE 8728 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	DDR3 DIMM Slots x 2 Max Memory Capacity 8GB Each DIMM supports 512MB/1GB/2GB/4GB DDR3 Dual Channel Mode DDR3 memory module Supports DDR3 800 / 1066 / 1333 / 1600(OC) Registered DIMM and ECC DIMM is not supported	DDR3 DIMM Slots x 2 Max Memory Capacity 8GB Each DIMM supports 512MB/1GB/2GB/4GB DDR3 Dual Channel Mode DDR3 memory module Supports DDR3 800 / 1066 / 1333 / 1600(OC) Registered DIMM and ECC DIMM is not supported
Graphics	Integrated in AMD 880G Chipset Max Shared Video Memory is 512MB DVI/HDMI/HDCP/UVD2 support	Integrated in AMD 880G Chipset Max Shared Video Memory is 512MB DVI/HDMI/HDCP/UVD2 support
SATA 3	Integrated Serial ATA Controller Data transfer rates up to 6 Gb/s SATA Version 3.0 specification compliant	Integrated Serial ATA Controller Data transfer rates up to 6 Gb/s SATA Version 3.0 specification compliant
LAN	Realtek RTL 8111E 10 / 100 / 1000 Mb/s auto negotiation Half / Full duplex capability	Realtek RTL 8111E 10 / 100 / 1000 Mb/s auto negotiation Half / Full duplex capability
Sound	ALC662 5.1 channels audio out High Definition Audio	ALC662 5.1 channels audio out High Definition Audio
USB3.0	ASM1042	
Slots	PCI Express Gen2 x16 slot x1 PCI slot x2	PCI Express Gen2 x16 slot x1 PCI slot x2

	A880GU3+		A880GB+	
On Board Connector	SATA Connector	x4	SATA Connector	x4
	Front Panel Connector	x1	Front Panel Connector	x1
	Front Audio Connector	x1	Front Audio Connector	x1
	S/PDIF Out Connector	x1	S/PDIF Out Connector	x1
	CPU Fan Header	x1	CPU Fan Header	x1
	System Fan Header	x1	System Fan Header	x1
	CMOS clear Header	x1	CMOS clear Header	x1
	USB 2.0 Connector	x2	USB 2.0 Connector	x2
	Power Connector (24pin)	x1	Power Connector (24pin)	x1
	Power Connector (4pin)	x1	Power Connector (4pin)	x1
	Consumer IR Connector	x1	Consumer IR Connector	x1
	Printer Port Connector	x1	Printer Port Connector	x1
	Serial port Connector	x1	Serial port Connector	x1
Back Panel I/O	PS/2 Keyboard / Mouse	x1	PS/2 Keyboard / Mouse	x1
	HDMI Port	x1	HDMI Port	x1
	VGA Port	x1	VGA Port	x1
	DVI-D Port	x1	DVI-D Port	x1
	LAN Port	x1	LAN Port	x1
	USB 2.0 Port (by SB850)	x2	USB 2.0 Port	x4
	USB 3.0 Port (by ASM1042)	x2	Audio Jack	x3
	Audio Jack	x3		
Board Size	200 mm(W) x 244 mm(L)		200 mm(W) x 244 mm(L)	
Special Features	RAID 0 / 1 / 5 / 10 support		RAID 0 / 1 / 5 / 10 support	
OS Support	Windows XP / Vista / 7 Biostar reserves the right to add or remove support for any OS With or without notice.		Windows XP / Vista / 7 Biostar reserves the right to add or remove support for any OS With or without notice.	

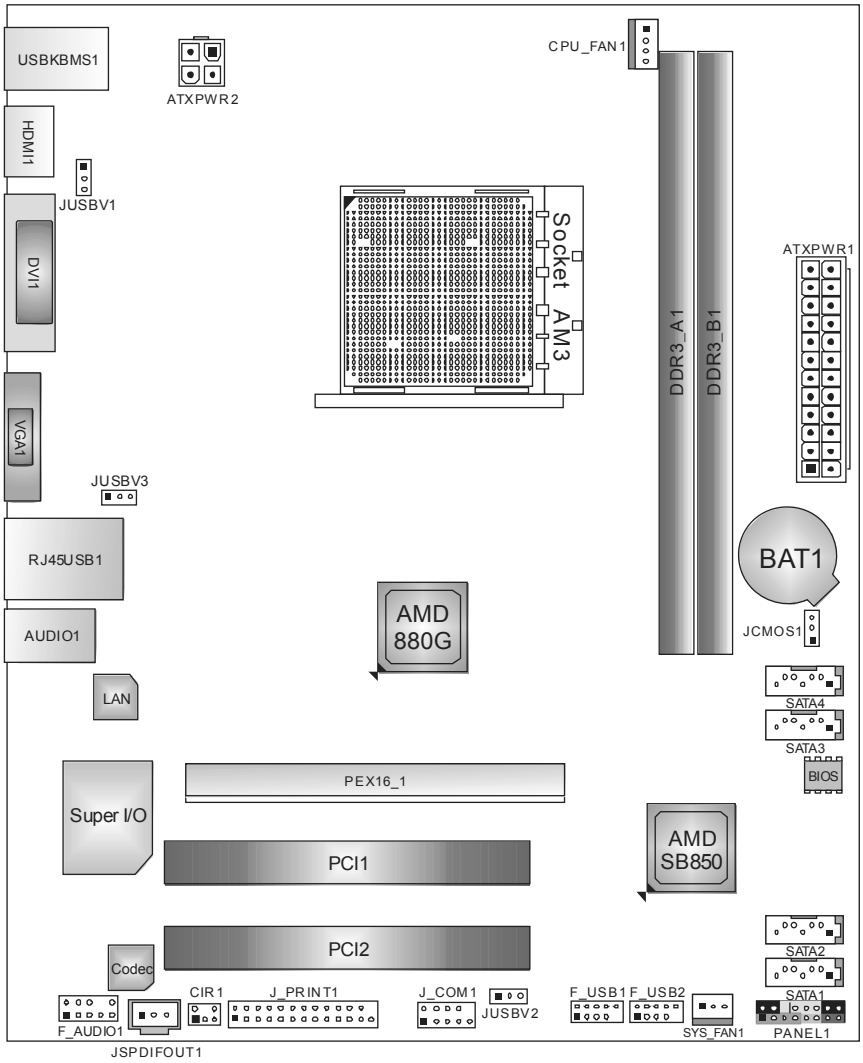
1.4 REAR PANEL CONNECTORS



NOTE: The HDMI and DVI-D ports both can provide digital video signals out-put function, but these two interfaces cannot work at the same time. The chipset uses the same channel to control HDMI and DVI-D, so these ports cannot transmit video signal to different display panels simultaneously.

NOTE: USB3.0 ports are backward compatible with USB2.0/USB1.X devices. USB3.0 is controlled by ASM1042, but, USB2.0/USB1.X is controlled by SB850. (For A880GU3+)

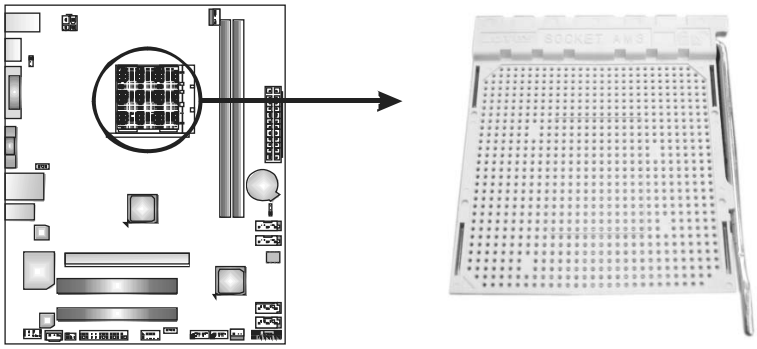
1.5 MOTHERBOARD LAYOUT



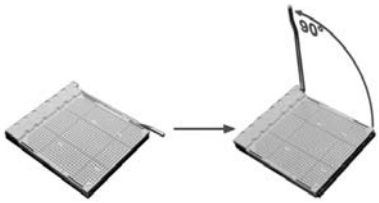
Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

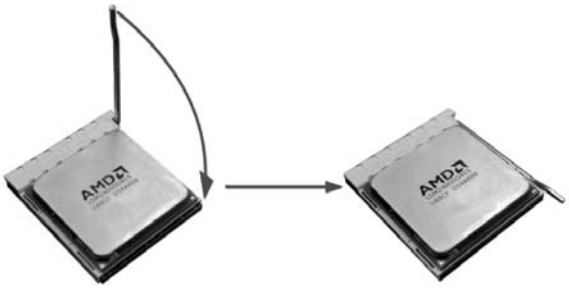


Step 1: Pull the lever toward direction A from the socket and then raise the lever up to a 90-degree angle.



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.

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

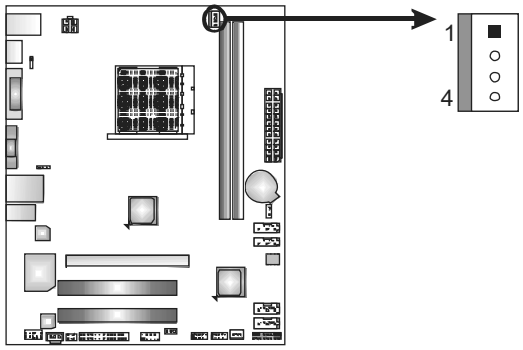


Step 4: Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the CPU_FAN1. This completes the installation.

2.2 FAN HEADERS

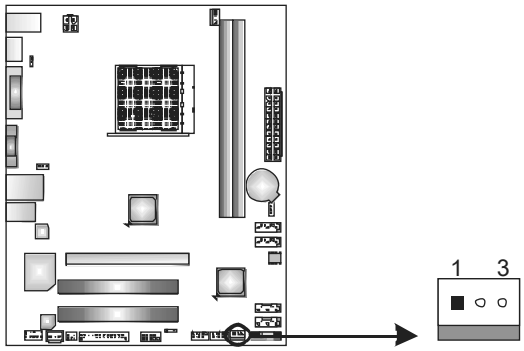
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU_FAN1: CPU Fan Header



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

SYS_FAN1: System Fan Header



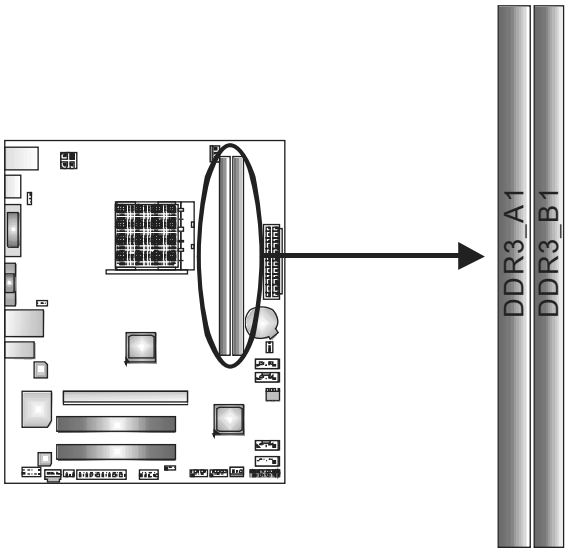
Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

Note:

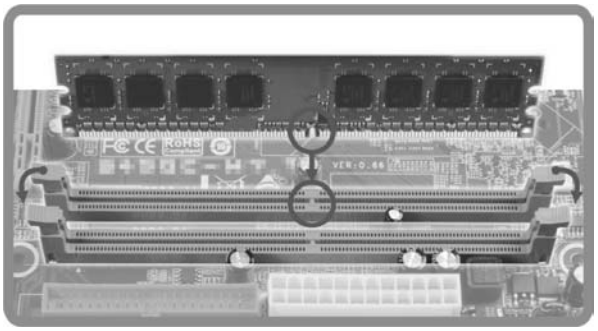
CPU_FAN1 supports 4-pin head connector. SYS_FAN1 supports 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 Installing System Memory

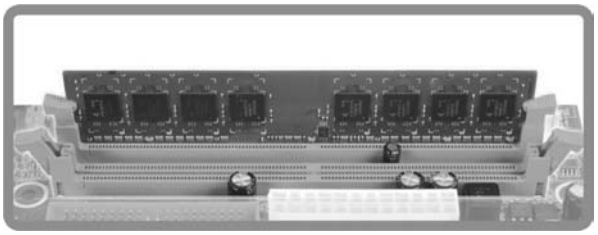
A. Memory Modules



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	DDR3 Module	Total Memory Size
DDR3_A1	512MB/1GB/2GB/4GB	Max is 8GB.
DDR3_B1	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	DDR3_A1	DDR3_B1
Disabled	X	O
Disabled	O	X
Enabled	O	O

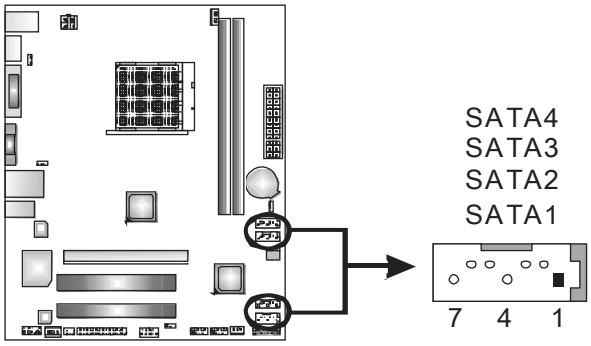
(O means memory installed, X means memory not installed.)

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

2.4 Connectors and Slots

SATA1~SATA4: Serial ATA Connectors

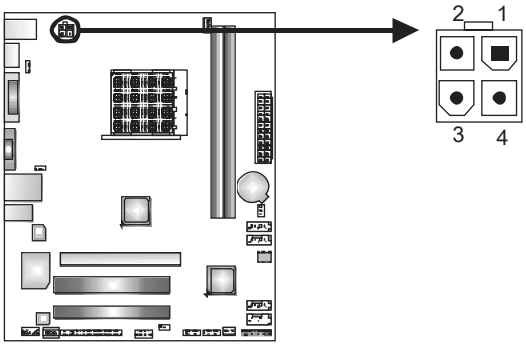
The motherboard has a PCI to SATA Controller with 4 channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



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

ATXPWR2: ATX Power Source Connector

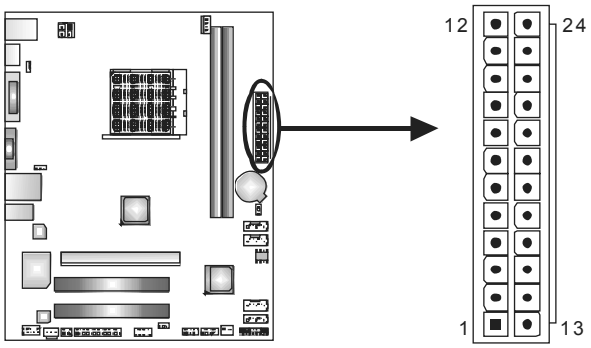
This connector will provide +12V to CPU power circuit.



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

ATXPWR1: ATX Power Source Connector

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



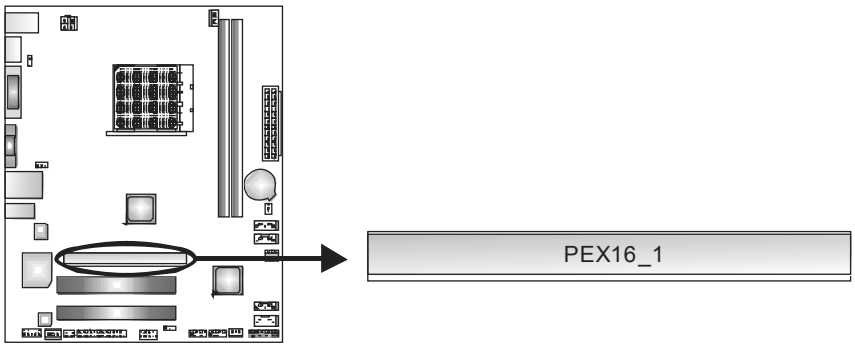
Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

Note:

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

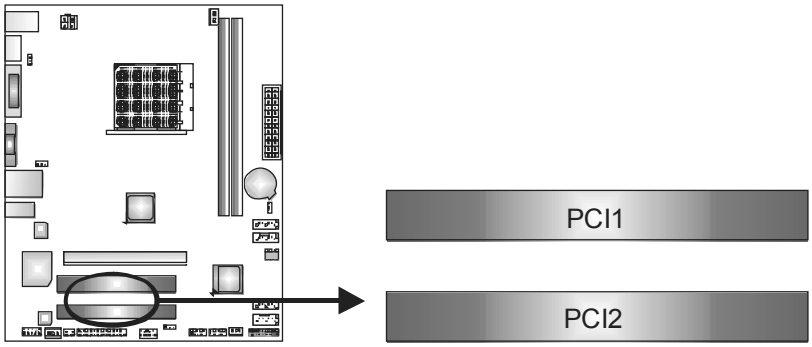
PEX16_1: PCI-Express Gen2 x16 Slot

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s simultaneously per direction, for an aggregate of 16GB/s totally.



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”.

Pin opened

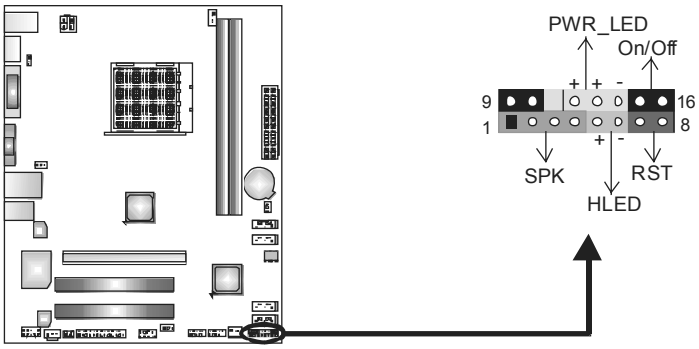
Pin closed

Pin1-2 closed

3.2 Detail Settings

PANEL1: Front Panel Header

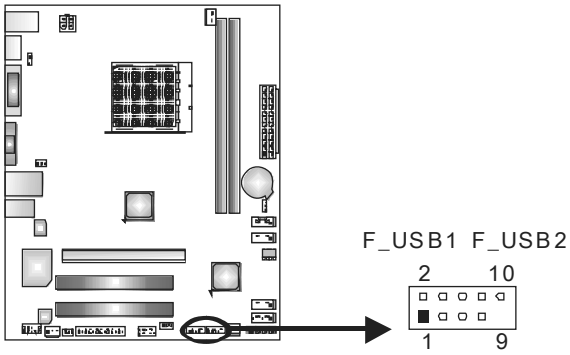
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case’s front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	N/A	N/A
2	N/A		10	N/A	
3	N/A		11	N/A	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	

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

This header allows user to connect additional USB cable on the PC front panel, and also can be connected with 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

JUSBV1/JUSBV2/JUSBV3: Power Source Headers for USB Ports

Pin 1-2 Close:

JUSBV1: +5V for USB ports at USBKBMS1.

JUSBV2: +5V for USB ports at F_USB1/F_USB2.

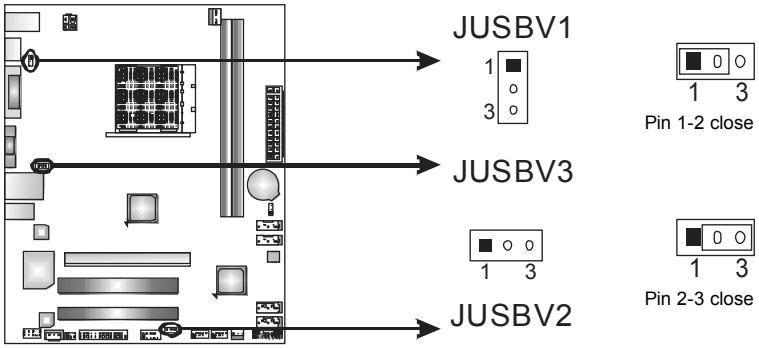
JUSBV3: +5V for USB ports at RJ45USB1.

Pin 2-3 Close:

JUSBV1: +5V STB for USB ports at USBKBMS1.

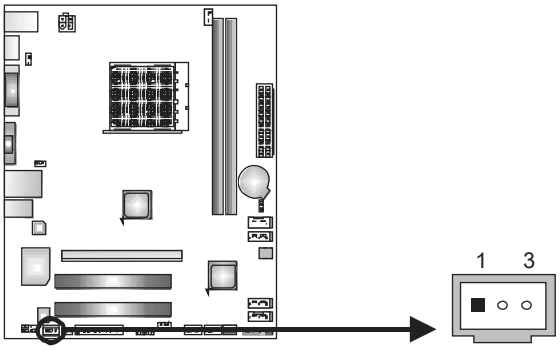
JUSBV2: +5V STB for USB ports at F_USB1/F_USB2.

JUSBV3: +5V STB for USB ports at RJ45USB1.



JSPDIFOUT1: Digital Audio-out Connector

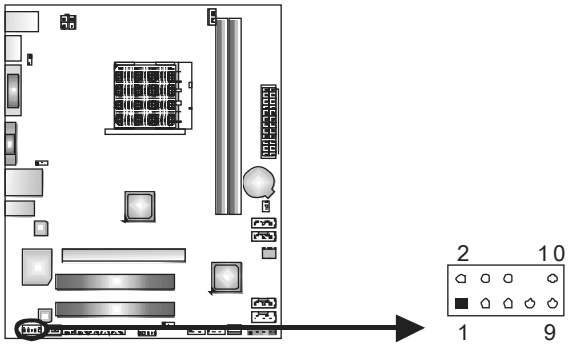
This connector allows user to connect the PCI bracket SPDIF output header.



Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

F_AUDIO1: Front Panel Audio Header

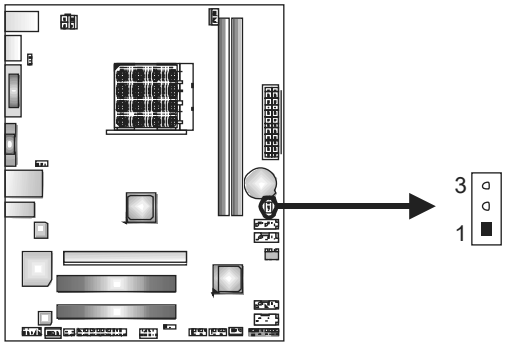
This header allows user to connect the front audio output cable with the PC front panel. This header allows only HD audio front panel connector; AC'97 connector is not acceptable.



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

JCMOS1: Clear CMOS Header

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



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

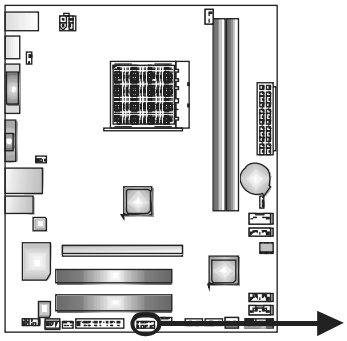
Pin 2-3 Close:
Clear CMOS data.

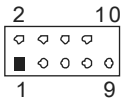
※ Clear CMOS Procedures:

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.

J_COM1: Serial Port Connector

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

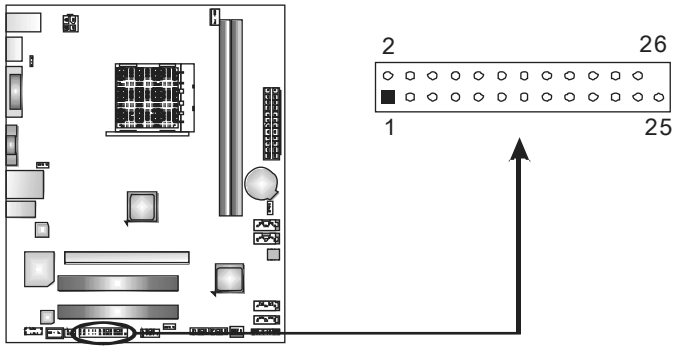




Pin	Assignment
1	Carrier detect
2	Received data
3	Transmitted data
4	Data terminal ready
5	Signal ground
6	Data set ready
7	Request to send
8	Clear to send
9	Ring indicator
10	NC

J_PRINT1: Printer Port Connector

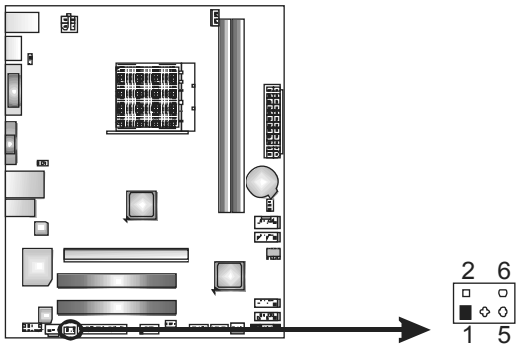
This header allows you to connector printer on the PC.



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

CIR1: Consumer IR Connector

This header is for infrared remote control and communication.



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

CHAPTER 4: RAID FUNCTIONS

4.1 Operating System

Supports Windows XP, 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.

RAID 5: RAID 5 provides fault tolerance and better utilization of disk capacity.

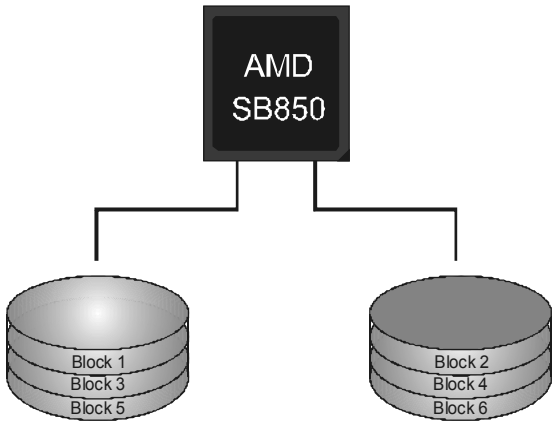
4.3 How RAID Works

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.



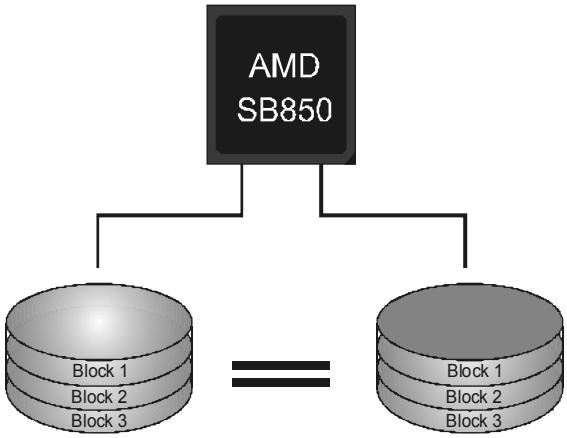
RAID 1:

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.

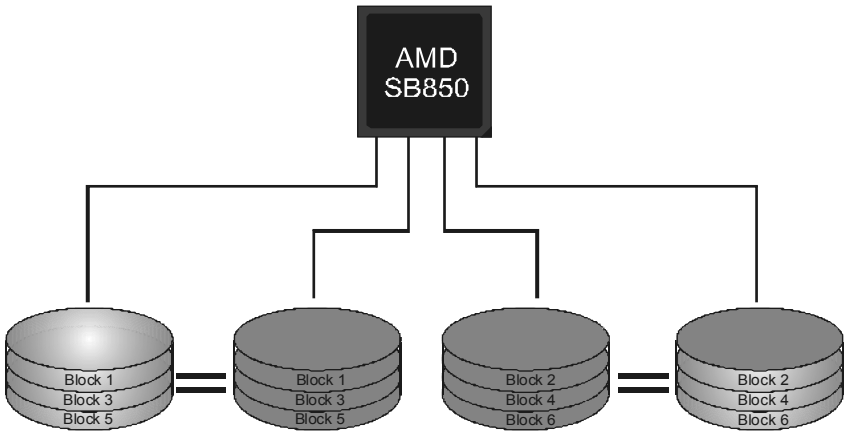


RAID 10:

RAID 1 drives can be stripped 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.

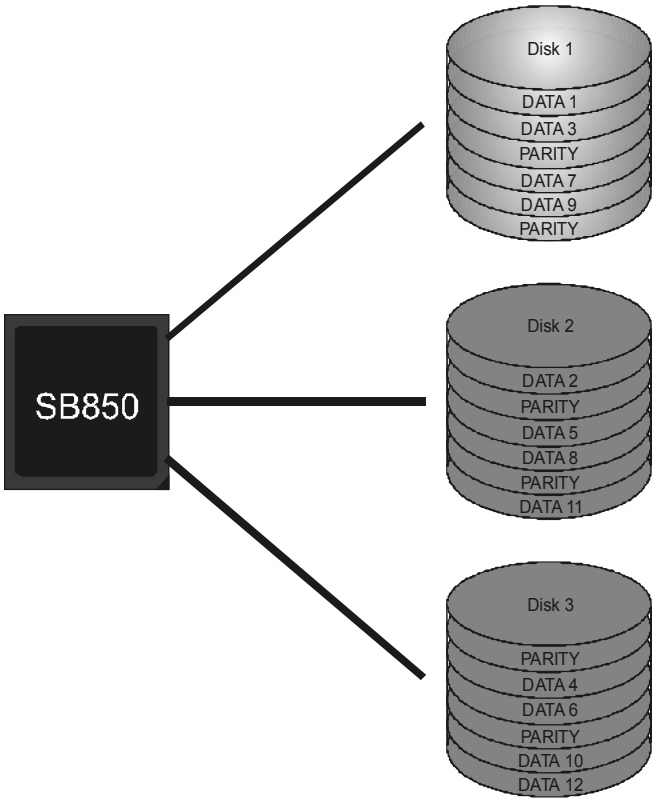


RAID 5:

RAID 5 stripes both data and parity information across three or more drives. It writes data and parity blocks across all the drives in the array. Fault tolerance is maintained by ensuring that the parity information for any given block of data is placed on a different drive from those used to store the data itself.

Features and Benefits

- ***Drives:*** Minimum 3.
- ***Uses:*** RAID 5 is recommended for transaction processing and general purpose service.
- ***Benefits:*** An ideal combination of good performance, good fault tolerance, and high capacity and storage efficiency.
- ***Drawbacks:*** Individual block data transfer rate same as a single disk. Write performance can be CPU intensive.
- ***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.

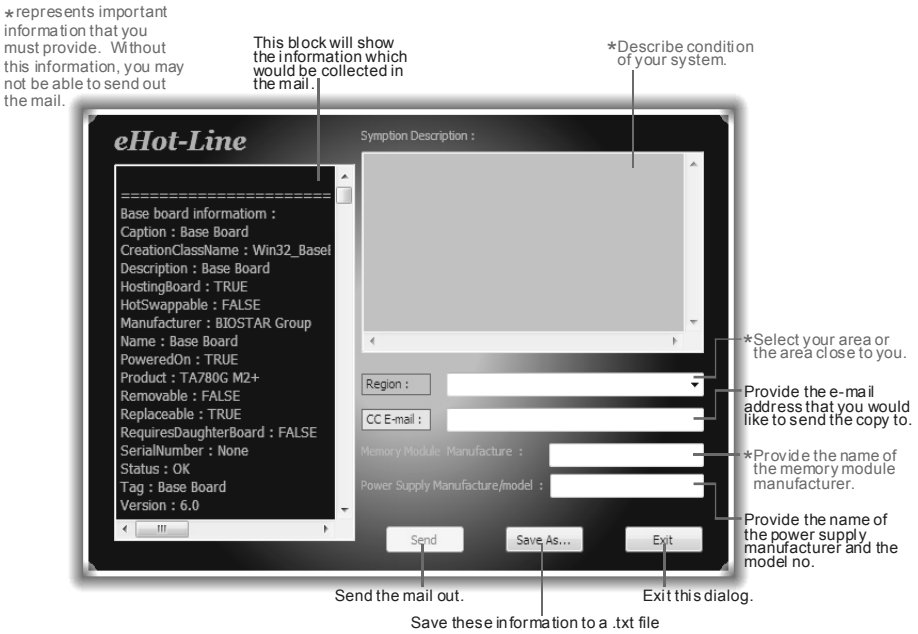
Launching Software

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.

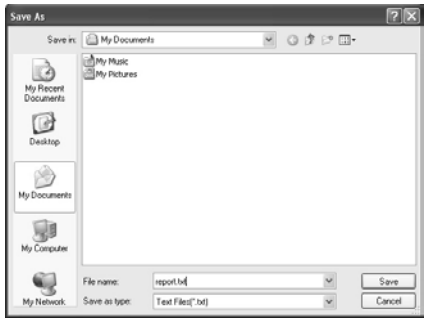
Before you use this utility, please set Outlook Express as your default e-mail client application program.



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.



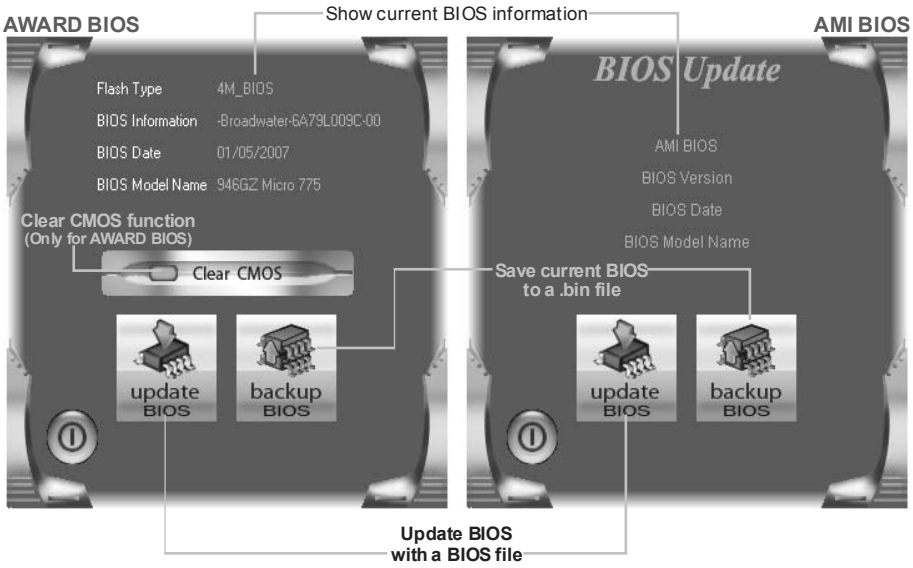
Open the saved .txt file, you will see your system information including motherboard/BIOS/CPU/video/ device/OS information. This information is also concluded in the sent mail.

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.

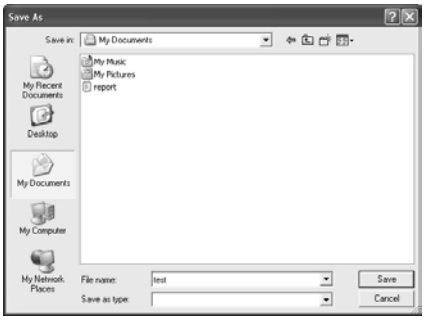
BIOS Update

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



<Backup BIOS>

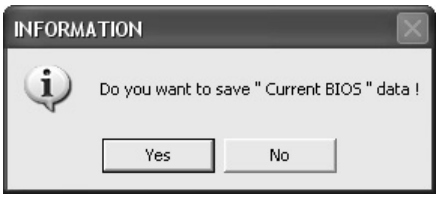
Once click on this button, the saving dialog will show. Choose the position to save file and enter file name. (We recommend that the file name should be English/number and no longer than 7 characters.) Then click **Save**.



<Update BIOS>

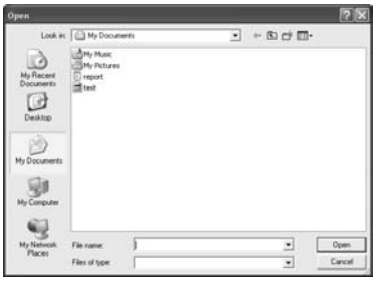
Before doing this, please download the proper BIOS file from the website.

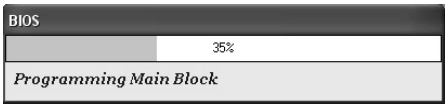
For AWARD BIOS, update BIOS procedure should be run with Clear CMOS function, so please check on Clear CMOS first.



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.

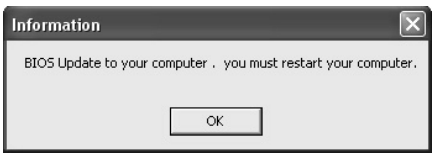
After the BIOS Backup procedure, the open dialog will show for requesting the BIOS file which is going to be updated. Please choose the proper BIOS file for updating, then click on **Open**.





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.

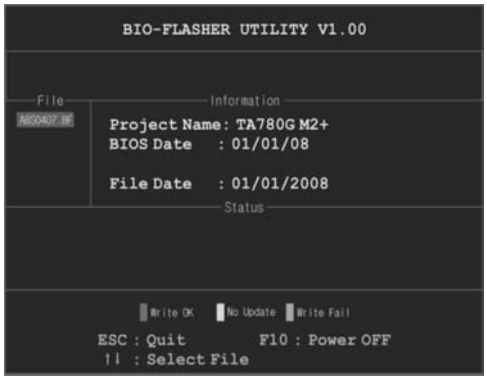
BIO-Flasher

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 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. ● 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

	A880GU3+	A880GB+
CPU	Sockel AM3 AMD Sempron/Athlon II/Phenom II Prozessoren Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport 3.0 und Cool'n'Quiet (Maximales Watt: 125W)	Sockel AM3 AMD Sempron/Athlon II/Phenom II Prozessoren Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport 3.0 und Cool'n'Quiet (Maximales Watt: 125W)
FSB	Unterstützt HyperTransport 3.0 mit einer Bandbreite von bis zu 5.2 GT/s	Unterstützt HyperTransport 3.0 mit einer Bandbreite von bis zu 5.2 GT/s
Chipsatz	AMD 880G AMD SB850	AMD 880G AMD SB850
Super E/A	ITE 8728 Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung "Smart Guardian"-Funktion von ITE	ITE 8728 Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR3 DIMM-Steckplätze x 2 Max. 8GB Arbeitsspeicher Jeder DIMM unterstützt 512MB/ 1GB/2GB/4GB DDR3. Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 800 / 1066 / 1333 / 1600(OC) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.	DDR3 DIMM-Steckplätze x 2 Max. 8GB Arbeitsspeicher Jeder DIMM unterstützt 512MB/ 1GB/2GB/4GB DDR3. Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 800 / 1066 / 1333 / 1600(OC) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
Grafik	Integrierter AMD 880G-Chipsatz Max. 512MB gemeinsam benutzter Videospeicher Unterstützt DVI/HDMI/HDCP/UVD2	Integrierter AMD 880G-Chipsatz Max. 512MB gemeinsam benutzter Videospeicher Unterstützt DVI/HDMI/HDCP/UVD2
SATA 3	Integrierter Serial ATA-Controller Datentransferrate bis zu 6 Gb/s Konform mit der SATA-Spezifikation Version 3.0.	Integrierter Serial ATA-Controller Datentransferrate bis zu 6 Gb/s Konform mit der SATA-Spezifikation Version 3.0.
LAN	Realtek RTL 8111E 10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion	Realtek RTL 8111E 10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion
HD Audio-Unterstützung	ALC662 5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio	ALC662 5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio

	A880GU3+		A880GB+	
USB3.0	ASM1042			
Steckplätze	PCI Express Gen2 x16 Steckplatz	x1	PCI Express Gen2 x16 Steckplatz	x1
	PCI-Steckplatz	x2	PCI-Steckplatz	x2
Onboard-Anschluss	SATA-Anschluss	x4	SATA-Anschluss	x4
	Fronttafelanschluss	x1	Fronttafelanschluss	x1
	Front-Audioanschluss	x1	Front-Audioanschluss	x1
	S/PDIF- Ausgangsanschluss	x1	S/PDIF- Ausgangsanschluss	x1
	CPU-Lüfter-Sockel	x1	CPU-Lüfter-Sockel	x1
	System-Lüfter-Sockel	x1	System-Lüfter-Sockel	x1
	"CMOS löschen"-Sockel	x1	"CMOS löschen"-Sockel	x1
	USB 2.0-Anschluss	x2	USB 2.0-Anschluss	x2
	Stromanschluss (24-polig)	x1	Stromanschluss (24-polig)	x1
	Stromanschluss (4-polig)	x1	Stromanschluss (4-polig)	x1
	Verbraucher-IR Anschluss	x1	Verbraucher-IR Anschluss	x1
	Druckeranschluss Anschluss	x1	Druckeranschluss Anschluss	x1
	Serieller Anschluss	x1	Serieller Anschluss	x1
Rückseiten-E/A	PS/2-Tastatur / Maus	x1		
	HDMI-Anschluss	x1	PS/2-Tastatur / Maus	x1
	VGA-Anschluss	x1	HDMI-Anschluss	x1
	DVI-D-Anschluss	x1	VGA-Anschluss	x1
	LAN-Anschluss	x1	DVI-D-Anschluss	x1
	USB 2.0-Anschluss (durch SB850)	x2	LAN-Anschluss	x1
	USB 3.0-Anschlus		USB 2.0-Anschluss	x4
	(durch ASM1042)	x2	Audioanschluss	x3
	Audioanschluss	x3		
Platinengröße	200 mm (B) X 244 mm (L)		200 mm (B) X 244 mm (L)	
Sonderfunktionen	Unterstützt RAID 0 / 1 / 5 / 10		Unterstützt RAID 0 / 1 / 5 / 10	
OS-Unterstützung	Windows XP / Vista / 7 Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.		Windows XP / Vista / 7 Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.	

FRENCH

	A880GU3+	A880GB+
UC	Socket AM3 Processeurs AMD Sempron/Athlon II/Phenom II L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport 3.0 et Cool'n'Quiet (Watt maximum : 125W)	Socket AM3 Processeurs AMD Sempron/Athlon II/Phenom II L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport 3.0 et Cool'n'Quiet (Watt maximum : 125W)
Bus frontal	Prend en charge Hyper Transport 3.0 jusqu'à une bande passante de 5.2 GT/s	Prend en charge Hyper Transport 3.0 jusqu'à une bande passante de 5.2 GT/s
Chipset	AMD 880G AMD SB850	AMD 880G AMD SB850
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 Fonction "Gardien intelligent" de l'ITE	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 Fonction "Gardien intelligent" de l'ITE
Mémoire principale	Fentes DDR3 DIMM x 2 Capacité mémoire maximale de 8 Go Chaque DIMM prend en charge des DDR3 de 256 Mo/512 Mo et 1Go/2Go/4Go Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 800 / 1066 / 1333 / 1600(OC) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge	Fentes DDR3 DIMM x 2 Capacité mémoire maximale de 8 Go Chaque DIMM prend en charge des DDR3 de 256 Mo/512 Mo et 1Go/2Go/4Go Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 800 / 1066 / 1333 / 1600(OC) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
Graphiques	Integré dans la chipset AMD 880G Mémoire vidéo partagée maximale de 512 Mo Prise en charge DVI/HDMI/HDCP/UVD2	Integré dans la chipset AMD 880G Mémoire vidéo partagée maximale de 512 Mo Prise en charge DVI/HDMI/HDCP/UVD2
SATA 3	Contrôleur Serial ATA intégré Taux de transfert jusqu'à 6 Go/s. Conforme à la spécification SATA Version 3.0	Contrôleur Serial ATA intégré Taux de transfert jusqu'à 6 Go/s. Conforme à la spécification SATA Version 3.0
LAN	Realtek RTL 8111E 10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability	Realtek RTL 8111E 10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability
Prise en charge audio HD	ALC662 Sortie audio à 5.1 voies Prise en charge de l'audio haute définition	ALC662 Sortie audio à 5.1 voies Prise en charge de l'audio haute définition

	A880GU3+	A880GB+
USB3.0	ASM1042	
Fentes	Fente PCI Express Gen2 x16 x1 Fente PCI x2	Fente PCI Express Gen2 x16 x1 Fente PCI x2
Connecteur embarqué	Connecteur SATA x4 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Connecteur de sortie S/PDIF x1 Embase de ventilateur UC x1 Embase de ventilateur système x1 Embase d'effacement CMOS x1 Connecteur USB 2.0 x2 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (4 broches) x1 Connecteur de IR du consommateur x1 Connecteur de Port d'imprimante x1 Connecteur de Port série x1	Connecteur SATA x4 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Connecteur de sortie S/PDIF x1 Embase de ventilateur UC x1 Embase de ventilateur système x1 Embase d'effacement CMOS x1 Connecteur USB 2.0 x2 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (4 broches) x1 Connecteur de IR du consommateur x1 Connecteur de Port d'imprimante x1 Connecteur de Port série x1
E/S du panneau arrière	Clavier / Souris PS/2 x1 Port HDMI x1 Port VGA x1 Port DVI-D x1 Port LAN x1 Port USB 2.0 (par SB850) x2 Port USB 3.0 (par ASM1042) x2 Fiche audio x3	Clavier / Souris PS/2 x1 Port HDMI x1 Port VGA x1 Port DVI-D x1 Port LAN x1 Port USB 2.0 x4 Fiche audio x3
Dimensions de la carte	200 mm (l) X 244 mm (H)	200 mm (l) X 244 mm (H)
Fonctionnalités spéciales	Prise en charge RAID 0 / 1 / 5 / 10	Prise en charge RAID 0 / 1 / 5 / 10
Support SE	Windows XP / Vista / 7 Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.	Windows XP / Vista / 7 Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

ITALIAN

	A880GU3+	A880GB+
CPU	Socket AM3 Processori AMD Sempron/Athlon II/Phenom II L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport 3.0 e Cool'n'Quiet (Watt massimo: 125W)	Socket AM3 Processori AMD Sempron/Athlon II/Phenom II L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport 3.0 e Cool'n'Quiet (Watt massimo: 125W)
FSB	Supporto di HyperTransport 3.0 fino a 5.2 GT/s di larghezza di banda	Supporto di HyperTransport 3.0 fino a 5.2 GT/s di larghezza di banda
Chipset	AMD 880G AMD SB850	AMD 880G AMD SB850
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 Funzione "Smart Guardian" di ITE	ITE 8728 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 DDR3 x 2 Capacità massima della memoria 8GB Ciascun DIMM supporta DDR3 512MB e 1GB/2GB/4GB Modulo di memoria DDR3 a canale doppio Supporto di DDR3 800 / 1066 / 1333 / 1600(OC) DIMM registrati e DIMM ECC non sono supportati	Alloggi DIMM DDR3 x 2 Capacità massima della memoria 8GB Ciascun DIMM supporta DDR3 512MB e 1GB/2GB/4GB Modulo di memoria DDR3 a canale doppio Supporto di DDR3 800 / 1066 / 1333 / 1600(OC) DIMM registrati e DIMM ECC non sono supportati
Grafica	Integrata nel Chipset AMD 880G La memoria video condivisa massima è di 512 MB Supporto DVI/HDMI/HDCP/UVD2	Integrata nel Chipset AMD 880G La memoria video condivisa massima è di 512 MB Supporto DVI/HDMI/HDCP/UVD2
SATA 3	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 6 Gb/s. Compatibile specifiche SATA Versione 3.0.	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 6 Gb/s. Compatibile specifiche SATA Versione 3.0.
LAN	Realtek RTL 8111E Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex	Realtek RTL 8111E Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex
Supporto audio HD	ALC662 Uscita audio 5.1 canali Supporto audio High-Definition (HD)	ALC662 Uscita audio 5.1 canali Supporto audio High-Definition (HD)

	A880GU3+	A880GB+
USB3.0	ASM1042	
Alloggi	Alloggio PCI Express Gen2 x16 x1 Alloggio PCI x2	Alloggio PCI Express Gen2 x16 x1 Alloggio PCI x2
Connettori su scheda	Connettore SATA x4 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore output SPDIF x1 Collettore ventolina CPU x1 Collettore ventolina sistema x1 Collettore cancellazione CMOS x1 Connettore USB 2.0 x2 Connettore alimentazione (24 pin) x1 Connettore alimentazione (4 pin) x1 Connettore IR del consumatore x1 Connettore Porta stampante x1 Connettore Porta seriale x1	Connettore SATA x4 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore output SPDIF x1 Collettore ventolina CPU x1 Collettore ventolina sistema x1 Collettore cancellazione CMOS x1 Connettore USB 2.0 x2 Connettore alimentazione (24 pin) x1 Connettore alimentazione (4 pin) x1 Connettore IR del consumatore x1 Connettore Porta stampante x1 Connettore Porta seriale x1
I/O pannello posteriore	Tastiera / Mouse PS/2 x1 Porta HDMI x1 Porta VGA x1 Porta DVI-D x1 Porta LAN x1 Porta USB 2.0 (da SB850) x2 Porta USB 3.0 (da ASM1042) x2 Connettore audio x3	Tastiera / Mouse PS/2 x1 Porta HDMI x1 Porta VGA x1 Porta DVI-D x1 Porta LAN x1 Porta USB 2.0 x4 Connettore audio x3
Dimensioni scheda	200 mm (larghezza) x 244 mm (altezza)	200 mm (larghezza) x 244 mm (altezza)
Caratteristiche speciali	Supporto RAID 0 / 1 / 5 / 10	Supporto RAID 0 / 1 / 5 / 10
Sistemi operativi supportati	Windows XP / Vista / 7 Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.	Windows XP / Vista / 7 Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

	A880GU3+	A880GB+
CPU	Conector AM3 Procesadores AMD Sempron/Athlon II/Phenom II La arquitectura AMD 64 permite el procesado de 32 y 64 bits Soporta las tecnologías Hyper Transport 3.0 y Cool'n'Quiet (Vatio máximo: 125W)	Conector AM3 Procesadores AMD Sempron/Athlon II/Phenom II La arquitectura AMD 64 permite el procesado de 32 y 64 bits Soporta las tecnologías Hyper Transport 3.0 y Cool'n'Quiet (Vatio máximo: 125W)
FSB	Admite HyperTransport 3.0 con un ancho de banda de hasta 5.2 GT/s	Admite HyperTransport 3.0 con un ancho de banda de hasta 5.2 GT/s
Conjunto de chips	AMD 880G AMD SB850	AMD 880G AMD SB850
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 Función "Guardia inteligente" de ITE	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 Función "Guardia inteligente" de ITE
Memoria principal	Ranuras DIMM DDR3 x 2 Capacidad máxima de memoria de 8GB Cada DIMM admite DDR de 512MB y 1GB/2GB/4GB Módulo de memoria DDR3 de canal Doble Admite DDR3 de 800 / 1066 / 1333 / 1600(OC) No admite DIMM registrados o DIMM compatibles con ECC	Ranuras DIMM DDR3 x 2 Capacidad máxima de memoria de 8GB Cada DIMM admite DDR de 512MB y 1GB/2GB/4GB Módulo de memoria DDR3 de canal Doble Admite DDR3 de 800 / 1066 / 1333 / 1600(OC) No admite DIMM registrados o DIMM compatibles con ECC
Gráficos	Integrados en el conjunto de chips AMD 880G Memoria máxima de vídeo compartida de 512 MB Admite DVI/HDMI/HDCP/UVD2	Integrados en el conjunto de chips AMD 880G Memoria máxima de vídeo compartida de 512 MB Admite DVI/HDMI/HDCP/UVD2
SATA 3	Controlador ATA Serie Integrado Tasas de transferencia de hasta 6 Gb/s. Compatible con la versión SATA 3.0.	Controlador ATA Serie Integrado Tasas de transferencia de hasta 6 Gb/s. Compatible con la versión SATA 3.0.
Red Local	Realtek RTL 8111E Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex	Realtek RTL 8111E Negociación de 10 / 100 / 1000 Mb/s Funciones Half / Full dúplex
Soporte de sonido HD	ALC662 Salida de sonido de 5.1 canales Soporte de sonido Alta Definición	ALC662 Salida de sonido de 5.1 canales Soporte de sonido Alta Definición

	A880GU3+		A880GB+	
USB3.0	ASM1042			
Ranuras	Ranura PCI Express Gen2 x16	X1	Ranura PCI Express Gen2 x16	X1
	Ranura PCI	X2	Ranura PCI	X2
Conectores en placa	Conector SATA	X4	Conector SATA	X4
	Conector de panel frontal	X1	Conector de panel frontal	X1
	Conector de sonido frontal	X1	Conector de sonido frontal	X1
	Conector de salida S/PDIF	X1	Conector de salida S/PDIF	X1
	Cabecera de ventilador de CPU	X1	Cabecera de ventilador de CPU	X1
	Cabecera de ventilador de sistema	X1	Cabecera de ventilador de sistema	X1
	Cabecera de borrado de CMOS	X1	Cabecera de borrado de CMOS	X1
	Conector USB 2.0	X2	Conector USB 2.0	X2
	Conector de alimentación (24 patillas)	X1	Conector de alimentación (24 patillas)	X1
	Conector de alimentación (4 patillas)	X1	Conector de alimentación (4 patillas)	X1
	Conector de IR del consumidor	X1	Conector de IR del consumidor	X1
	Conector Puerto de impresora	X1	Conector Puerto de impresora	X1
	Conector Puerto serie	X1	Conector Puerto serie	X1
Panel trasero de E/S	Teclado / Ratón PS/2	X1	Teclado / Ratón PS/2	X1
	Ratón HDMI	X1	Ratón HDMI	X1
	Puerto VGA	X1	Puerto VGA	X1
	Puerto DVI-D	X1	Puerto DVI-D	X1
	Puerto de red local	X1	Puerto de red local	X1
	Puerto USB 2.0 (por SB850)	X2	Puerto USB 2.0	X4
	Puerto USB 3.0 (por ASM1042)	X2	Conector de sonido	X3
	Conector de sonido	X3		
Tamaño de la placa	200 mm. (A) X 244 Mm. (H)		200 mm. (A) X 244 Mm. (H)	
Funciones especiales	Admite RAID 0 / 1 / 5 / 10		Admite RAID 0 / 1 / 5 / 10	
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.		Windows XP / Vista / 7 Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.	

PORTUGUESE

	A880GU3+	A880GB+
CPU	Socket AM3 Processadores AMD Sempron/Athlon II/Phenom II A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport 3.0 e Cool'n'Quiet (Watt máximo: 125W)	Socket AM3 Processadores AMD Sempron/Athlon II/Phenom II A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport 3.0 e Cool'n'Quiet (Watt máximo: 125W)
FSB	Suporta a tecnologia HyperTransport 3.0 com uma largura de banda até 5.2 GT/s	Suporta a tecnologia HyperTransport 3.0 com uma largura de banda até 5.2 GT/s
Chipset	AMD 880G AMD SB850	AMD 880G AMD SB850
Especificação 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 Função "Smart Guardian" da ITE	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 Função "Smart Guardian" da ITE
Memória principal	Ranhuras DIMM DDR3 x 2 Capacidade máxima de memória: 8 GB Cada módulo DIMM suporta uma memória DDR3 de 512 MB & 1 GB/2 GB/4 GB Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 800 / 1066 / 1333 / 1600(OC) Os módulos DIMM registados e os DIMM ECC não são suportados	Ranhuras DIMM DDR3 x 2 Capacidade máxima de memória: 8 GB Cada módulo DIMM suporta uma memória DDR3 de 512 MB & 1 GB/2 GB/4 GB Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 800 / 1066 / 1333 / 1600(OC) Os módulos DIMM registados e os DIMM ECC não são suportados
Placa gráfica	Integrada no chipset AMD 880G Memória de vídeo máxima partilhada: 512 MB Suporta as funções DVI/HDMI/HDCP/UVD2	Integrada no chipset AMD 880G Memória de vídeo máxima partilhada: 512 MB Suporta as funções DVI/HDMI/HDCP/UVD2
SATA 3	Controlador Serial ATA integrado Velocidades de transmissão de dados até 6 Gb/s. Compatibilidade com a especificação SATA versão 3.0.	Controlador Serial ATA integrado Velocidades de transmissão de dados até 6 Gb/s. Compatibilidade com a especificação SATA versão 3.0.
LAN	Realtek RTL 8111E Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex	Realtek RTL 8111E Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex
Suporte para áudio de alta definição	ALC662 Saída de áudio de 5.1 canais Suporta a especificação High-Definition Audio	ALC662 Saída de áudio de 5.1 canais Suporta a especificação High-Definition Audio

	A880GU3+		A880GB+	
USB3.0	ASM1042			
Ranhuras	Ranhura PCI Express Gen2 x16 Ranhura PCI	x1 x2	Ranhura PCI Express Gen2 x16 Ranhura PCI	x1 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 Conector para limpeza do CMOS Conector USB 2.0 Conector de alimentação (24 pinos) Conector de alimentação (4 pinos) Conector de IR do consumidor Conector da para impressora Conector da Porta série	x4 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1 x1	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 Conector para limpeza do CMOS Conector USB 2.0 Conector de alimentação (24 pinos) Conector de alimentação (4 pinos) Conector de IR do consumidor Conector da para impressora Conector da Porta série	x4 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1 x1
Entradas/Saídas no painel traseiro	Teclado / Rato PS/2 Porta HDMI Porta VGA Porta DVI-D Porta LAN Porta USB 2.0 (por SB850) Porta USB 3.0 (por ASM1042) Tomada de áudio	x1 x1 x1 x1 x1 x2 x2 x3	Teclado / Rato PS/2 Porta HDMI Porta VGA Porta DVI-D Porta LAN Porta USB 2.0 Tomada de áudio	x1 x1 x1 x1 x1 x4 x3
Tamanho da placa	200 mm (L) X 244 mm (A)		200 mm (L) X 244 mm (A)	
Características especiais	Suporta as funções RAID 0 / 1 / 5 / 10		Suporta as funções RAID 0 / 1 / 5 / 10	
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.		Windows XP / Vista / 7 A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.	

POLISH

	A880GU3+	A880GB+
Procesor	Socket AM3 AMD Sempron/Athlon II/Phenom II Procesory Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport 3.0 oraz Cool'n'Quiet (Maksymalny Watt: 125W)	Socket AM3 AMD Sempron/Athlon II/Phenom II Procesory Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport 3.0 oraz Cool'n'Quiet (Maksymalny Watt: 125W)
FSB	Obsługa HyperTransport 3.0 o szerokości pasma do 5.2 GT/s	Obsługa HyperTransport 3.0 o szerokości pasma do 5.2 GT/s
Chipset	AMD 880G AMD SB850	AMD 880G AMD SB850
Pamięć główna	Gniazda DDR3 DIMM x 2 Maks. wielkość pamięci 8GB Każde gniazdo DIMM obsługuje moduły 512MB oraz 1GB/2GB/4GB DDR3 Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 800 / 1066 / 1333 / 1600(OC) Brak obsługi Registered DIMM oraz ECC DIMM	Gniazda DDR3 DIMM x 2 Maks. wielkość pamięci 8GB Każde gniazdo DIMM obsługuje moduły 512MB oraz 1GB/2GB/4GB DDR3 Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 800 / 1066 / 1333 / 1600(OC) Brak obsługi Registered DIMM oraz ECC DIMM
Super I/O	ITE 8728 Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count Funkcje kontroli warunków pracy, Monitor H/W Funkcja ITE "Smart Guardian"	ITE 8728 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 880G Maks. wielkość współdzielonej pamięci video wynosi 512 MB Obsługa DVI/HDMI/HDCP/UVD2	Zintegrowana w chipsecie AMD 880G Maks. wielkość współdzielonej pamięci video wynosi 512 MB Obsługa DVI/HDMI/HDCP/UVD2
SATA 3	Zintegrowany kontroler Serial ATA Transfer danych do 6 Gb/s. Zgodność ze specyfikacją SATA w wersji 3.0.	Zintegrowany kontroler Serial ATA Transfer danych do 6 Gb/s. Zgodność ze specyfikacją SATA w wersji 3.0.
LAN	Realtek RTL 8111E 110 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego dupleksu	Realtek RTL 8111E 110 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego dupleksu
Obsługa audio HD	ALC662 5.1 kanałowe wyjście audio Obsługa High-Definition Audio	ALC662 5.1 kanałowe wyjście audio Obsługa High-Definition Audio

	A880GU3+		A880GB+	
USB3.0	ASM1042			
Gniazda	Gniazdo PCI Express Gen2 x16 Gniazdo PCI	x1 x2	Gniazdo PCI Express Gen2 x16 Gniazdo PCI	x1 x2
Złącza wbudowane	Złącze SATA Złącze panela przedniego Przednie złącze audio Złącze wyjścia S/PDIF Złącze główkowe wentylatora procesora x1 Złącze główkowe wentylatora systemowego x1 Złącze główkowe kasowania CMOS Złącze USB 2.0 Złącze zasilania (24 pinowe) Złącze zasilania (4 pinowe) Złącze Konsument IR Złącze Port drukarki Złącze Port szeregowy	x4 x1 x1 x1 x1 x2 x1 x1 x1 x1 x1	Złącze SATA Złącze panela przedniego Przednie złącze audio Złącze wyjścia S/PDIF Złącze główkowe wentylatora procesora x1 Złącze główkowe wentylatora systemowego x1 Złącze główkowe kasowania CMOS Złącze USB 2.0 Złącze zasilania (24 pinowe) Złącze zasilania (4 pinowe) Złącze Konsument IR Złącze Port drukarki Złącze Port szeregowy	x4 x1 x1 x1 x1 x2 x1 x1 x1 x1 x1
Back Panel I/O	Klawiatura / Mysz PS/2 Port HDMI Port VGA Port DVI-D Port LAN Port USB 2.0 (przez SB850) Port USB 3.0 (przez ASM1042) Gniazdo audio	x1 x1 x1 x1 x1 x2 x2 x3	Klawiatura / Mysz PS/2 Port HDMI Port VGA Port DVI-D Port LAN Port USB 2.0 Gniazdo audio	x1 x1 x1 x1 x1 x4 x3
Wymiary płyty	200 mm (S) X 244 mm (W)		200 mm (S) X 244 mm (W)	
Funkcje specjalne	Obsługa RAID 0 / 1 / 5 / 10		Obsługa RAID 0 / 1 / 5 / 10	
Obsluga systemu operacyjnego	Windows XP / Vista / 7 Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.		Windows XP / Vista / 7 Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.	

RUSSIAN

	A880GU3+	A880GB+
CPU (центральный процессор)	Гнездо AM3 Процессоры AMD Sempron/Athlon II/Phenom II Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит Поддержка Hyper Transport 3.0 и Cool'n'Quiet (Максимальный ватт: 125W)	Гнездо AM3 Процессоры AMD Sempron/Athlon II/Phenom II Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит Поддержка Hyper Transport 3.0 и Cool'n'Quiet (Максимальный ватт: 125W)
FSB	Поддержка HyperTransport 3.0 с пропускной способностью до 5.2 GT/s	Поддержка HyperTransport 3.0 с пропускной способностью до 5.2 GT/s
Набор микросхем	AMD 880G AMD SB850	AMD 880G AMD SB850
Основная память	Слоты DDR3 DIMM x 2 Максимальная ёмкость памяти 8 ГБ Каждый модуль DIMM поддерживает 512МБ & 1ГБ/2ГБ/4ГБ DDR3 Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 800 / 1066 / 1333 / 1600(OC) Не поддерживает зарегистрированные модули DIMM and ECC DIMM	Слоты DDR3 DIMM x 2 Максимальная ёмкость памяти 8 ГБ Каждый модуль DIMM поддерживает 512МБ & 1ГБ/2ГБ/4ГБ DDR3 Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 800 / 1066 / 1333 / 1600(OC) Не поддерживает зарегистрированные модули DIMM and ECC DIMM
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 Функция ITE "Smart Guardian" (Интеллектуальная защита)	ITE 8728 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 880G Максимальная совместно используемая видео память составляет 512 МБ Поддержка DVI/HDMI/HDCP/UVD2	Встроенная в набор микросхем AMD 880G Максимальная совместно используемая видео память составляет 512 МБ Поддержка DVI/HDMI/HDCP/UVD2
SATA 3	Встроенное последовательное устройство управления ATA скорость передачи данных до 6 гигабит/с. Соответствие спецификации SATA версия 3.0.	Встроенное последовательное устройство управления ATA скорость передачи данных до 6 гигабит/с. Соответствие спецификации SATA версия 3.0.
Локальная сеть	Realtek RTL 8111E Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность	Realtek RTL 8111E Автоматическое согласование 10 / 100 / 1000 Мб/с Частичная / полная дуплексная способность
Звуковая поддержка жесткого диска	ALC662 Звуковая поддержка High-Definition 5.1канальный звуковой выход	ALC662 Звуковая поддержка High-Definition 5.1канальный звуковой выход

	A880GU3+		A880GB+	
USB3.0	ASM1042			
Слоты	Слот PCI Express Gen2 x16 Слот PCI	x1 x2	Слот PCI Express Gen2 x16 Слот PCI	x1 x2
Встроенный разъём	Разъём SATA Разъём на лицевой панели Входной звуковой разъём Разъём вывода для S/PDIF Контактирующее приспособление вентилятора центрального процессора Контактирующее приспособление вентилятора системы Открытое контактирующее приспособление CMOS USB 2.0-разъём Разъем питания (24 вывод) Разъем питания (4 вывод) Разъём едока ИКЫЙ Разъём Порт подключения принтера Разъём Последовательный порт	x4 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1 x1	Разъём SATA Разъём на лицевой панели Входной звуковой разъём Разъём вывода для S/PDIF Контактирующее приспособление вентилятора центрального процессора Контактирующее приспособление вентилятора системы Открытое контактирующее приспособление CMOS USB 2.0-разъём Разъем питания (24 вывод) Разъем питания (4 вывод) Разъём едока ИКЫЙ Разъём Порт подключения принтера Разъём Последовательный порт	x4 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1 x1
Задняя панель средств ввода-вывода	Клавиатура / Мышь PS/2 Порт HDMI Порт VGA Порт DVI-D Порт LAN USB 2.0-порт (по SB850) USB 3.0-порт (по ASM1042) Гнездо для подключения наушников	x1 x1 x1 x1 x1 x2 x2 x3	Клавиатура / Мышь PS/2 Порт HDMI Порт VGA Порт DVI-D Порт LAN USB 2.0-порт Гнездо для подключения наушников	x1 x1 x1 x1 x1 x4 x3
Размер панели	200 мм (Ш) X 244 мм (В)		200 мм (Ш) X 244 мм (В)	
Специальные технические характеристики	Поддержка RAID 0 / 1 / 5 / 10		Поддержка RAID 0 / 1 / 5 / 10	
Поддержка OS	Windows XP / Vista / 7 Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.		Windows XP / Vista / 7 Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.	

ARABIC

	A880GU3+	A880GB+
وحدة المعالجة المركزية	AM3مقبس AMD Sempron/Athlon II/Phenom IIمعالجات إجراء العمليات الحلسوبية بسرعة 32 و 64 بتAMD 64تمكن تقنية Cool'n'Quiet و Hyper Transport 3.0تدعم تقنية (و125 :قصـوى واط)	AM3 مقبس Aمقبس AMD Sempron/Athlon II/Phenom IIمعالجات إجراء العمليات الحلسوبية بسرعة 32 و 64 بتAMD 64تمكن تقنية Cool'n'Quiet و Hyper Transport 3.0تدعم تقنية (و125 :قصـوى واط)
الناقل الأمامي الجانبي	5.2 GT/s بتردد يصل إلىHyperTransport 3.0تدعم تقنية	5.2 GT/s بتردد يصل إلىHyperTransport 3.0تدعم تقنية
مجموعة الشرائح	AMD 880G AMD SB850	AMD 880G AMD SB850
Super I/O	ITE 8728 الأكثر استخداماً. Super I/Oتوفر وظيفة Low Pin Count Interfaceتدعم تقنية وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة ITE من "Smart Guardian"وظيفة	ITE 8728 الأكثر استخداماً. Super I/Oتوفر وظيفة Low Pin Count Interfaceتدعم تقنية وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة ITE من "Smart Guardian"وظيفة
الذاكرة الرئيسية	فتحة DDR3 DIMM عدد2 سعة ذاكرة قصوى 8 جيجابايت ميجا بايت 512سعة DDR3 تدعم ذاكرة من نوع DIMMتدعم كل فتحة و1/و 2/و 4 جيجا بايت مزدوجة القاةDDR3وحدة ذاكرة سعت 800 / 1066 / 1333 / DDR3تدعم الذاكرة من نوع 1600(OC) ميجابايت ECC وتلك التي لا تتوافق مع DIMMلا تدعم رقائق الذاكرة	فتحة DDR3 DIMM عدد2 سعة ذاكرة قصوى 8 جيجابايت ميجا بايت 512سعة DDR3 تدعم ذاكرة من نوع DIMMتدعم كل فتحة و1/و 2/و 4 جيجا بايت مزدوجة القاةDDR3وحدة ذاكرة سعت 800 / 1066 / 1333 / DDR3تدعم الذاكرة من نوع 1600(OC) ميجابايت ECC وتلك التي لا تتوافق مع DIMMلا تدعم رقائق الذاكرة
بطاقة الرسومات	AMD 880G مدمجة في رقائق ميجا بايت512أقصى سعة لذاكرة الفيديو المشتركة DVI/HDMI/HDCP/UVD2تدعم تقنية	AMD 880G مدمجة في رقائق ميجا بايت512أقصى سعة لذاكرة الفيديو المشتركة DVI/HDMI/HDCP/UVD2تدعم تقنية
SATA 3	متكاملSerial ATAمتحكم جيجابت/ثانية.6نقل البيانات بسرعات تصل إلى 3.0. الإصدار SATAمطابقة لمواصفات	متكاملSerial ATAمتحكم جيجابت/ثانية.6نقل البيانات بسرعات تصل إلى 3.0. الإصدار SATAمطابقة لمواصفات
شبكة داخلية	Realtek RTL 8111E تفاوض تلقائي 100/10 ميجا بايت / ثانية و1جيجا بت/ثانية إمكانية النقل المزدوج الكامل/النصفي	Realtek RTL 8111E تفاوض تلقائي 100/10 ميجا بايت / ثانية و1جيجا بت/ثانية إمكانية النقل المزدوج الكامل/النصفي
دعم الصوت عالي التعريف	ALC662 قنوات لخرج الصوت5.1 تدعم تقنية الصوت عالي التعريف من	ALC662 قنوات لخرج الصوت5.1 تدعم تقنية الصوت عالي التعريف من

	A880GU3+		A880GB+	
USB3.0	ASM1042			
القحات	قحة PCI Express Gen2 x16 قحة PCI	عدد 1 عدد2	قحة PCI Express Gen2 x16 قحة PCI	عدد 1 عدد2
المنافذ على سطح اللوحة	منفذ SATA منفذ اللوحة الأمامية منفذ الصوت الأمامي منفذ خرج S/PDIF وصلة مروحة وحدة المعالجة المركزية وصلة مروحة النظام وصلة مسح CMOS منفذ USB 2.0 منفذ توصيل الطاقة (24دبوس) منفذ توصيل الطاقة (4دبوس) منفذ الأحمر تحت مستهلكة منفذ طابعة منفذ تسلسلي	عدد4 عدد 1 عدد 1 عدد 1 عدد 1 عدد 1 عدد 1 عدد 2 عدد 1 عدد 1 عدد 1 عدد 1 عدد 1	منفذ SATA منفذ اللوحة الأمامية منفذ الصوت الأمامي منفذ خرج S/PDIF وصلة مروحة وحدة المعالجة المركزية وصلة مروحة النظام وصلة مسح CMOS منفذ USB 2.0 منفذ توصيل الطاقة (24دبوس) منفذ توصيل الطاقة (4دبوس) منفذ الأحمر تحت مستهلكة منفذ طابعة منفذ تسلسلي	عدد4 عدد 1 عدد 1 عدد 1 عدد 1 عدد 1 عدد 1 عدد 2 عدد 1 عدد 1 عدد 1 عدد 1 عدد 1
منافذ دخل/خرج اللوحة الخلفية	لوحة مفاتيح / ماوس PS/2 منافذ HDMI منافذ VGA منافذ DVI-D منفذ شبكة اتصال محلية منافذ USB2.0 (قبل من SB850) منافذ USB3.0 (قبل من ASM1042) مقبس صوت	عدد 1 عدد 1 عدد 1 عدد 1 عدد 1 عدد 2 عدد 2 عدد 3	لوحة مفاتيح / ماوس PS/2 منافذ HDMI منافذ VGA منافذ DVI-D منفذ شبكة اتصال محلية منافذ USB 2.0 مقبس صوت	عدد 1 عدد 1 عدد 1 عدد 1 عدد 1 عدد 4 عدد 3
حجم اللوحة	200مم (عرض) X 244 مم (ارتفاع)		200مم (عرض) X 244 مم (ارتفاع)	
مزايا خاصة	RAID 0 / 1 / 5 / 10 تدعم تقنية		RAID 0 / 1 / 5 / 10 تدعم تقنية	
دعم أنظمة التشغيل	Windows XP / Vista / 7 بحقها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو Biostar تحتفظ بدون إخطار.		Windows XP / Vista / 7 بحقها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو Biostar تحتفظ بدون إخطار.	

JAPANESE

	A880GU3+	A880GB+
CPU	Socket AM3 AMD Sempron/Athlon II/Phenom II 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 ハイパートランスポート3.0とクールアンドクワイアットをサポートします (最高のワット: 125W)	Socket AM3 AMD Sempron/Athlon II/Phenom II 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 ハイパートランスポート3.0とクールアンドクワイアットをサポートします (最高のワット: 125W)
FSB	5.2 GT/sのバンド幅までハイパートランスポート3.0をサポートします	5.2 GT/sのバンド幅までハイパートランスポート3.0をサポートします
チップセット	AMD 880G AMD SB850	AMD 880G AMD SB850
メインメモリ	DDR3 DIMMスロット x 2 最大メモリ容量8GB 各DIMMは 512MB & 1GB/2GB/4GB 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(OC) をサポート 登録済みDIMMとECC DIMMはサポートされません	DDR3 DIMMスロット x 2 最大メモリ容量8GB 各DIMMは 512MB & 1GB/2GB/4GB 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(OC) をサポート 登録済みDIMMとECC DIMMはサポートされません
Super I/O	ITE 8728 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	ITE 8728 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 880Gチップセットに統合 最大の共有ビデオメモリは512MBです DVI/HDMI/HDCP/UVD2 のサポート	AMD 880Gチップセットに統合 最大の共有ビデオメモリは512MBです DVI/HDMI/HDCP/UVD2 のサポート
SATA 3	統合シリアルATAコントローラ 最高6Gb/秒のデータ転送速度 SATAバージョン3.0仕様に準拠。	統合シリアルATAコントローラ 最高6Gb/秒のデータ転送速度 SATAバージョン3.0仕様に準拠。
LAN	Realtek RTL 8111E 10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能	Realtek RTL 8111E 10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能
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	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

	A880GU3+		A880GB+	
USB3.0	ASM1042			
スロット	PCI Express Gen2 x16スロット	x1	PCI Express Gen2 x16スロット	x1
	PCIスロット	x2	PCIスロット	x2
オンボードコネクタ	SATAコネクタ	x4	SATAコネクタ	x4
	フロントパネルコネクタ	x1	フロントパネルコネクタ	x1
	フロントオーディオコネクタ	x1	フロントオーディオコネクタ	x1
	S/PDIFアウトコネクタ	x1	S/PDIFアウトコネクタ	x1
	CPUファンヘッダ	x1	CPUファンヘッダ	x1
	システムファンヘッダ	x1	システムファンヘッダ	x1
	CMOSクリアヘッダ	x1	CMOSクリアヘッダ	x1
	USB 2.0コネクタ	x2	USB 2.0コネクタ	x2
	電源コネクタ(24ピン)	x1	電源コネクタ(24ピン)	x1
	電源コネクタ(4ピン)	x1	電源コネクタ(4ピン)	x1
	消費者IRコネクタ	x1	消費者IRコネクタ	x1
	プリンタポートコネクタ	x1	プリンタポートコネクタ	x1
	シリアルポートコネクタ	x1	シリアルポートコネクタ	x1
背面パネルI/O	PS/2キーボード / マウス	x1	PS/2キーボード / マウス	x1
	HDMIポート	x1	HDMIポート	x1
	VGAポート	x1	VGAポート	x1
	DVI-Dポート	x1	DVI-Dポート	x1
	LANポート	x1	LANポート	x1
	USB 2.0ポート(で SB850)	x2	USB 2.0ポート	x4
	USB 3.0ポート (で ASM1042)	x2	オーディオジャック	x3
	オーディオジャック	x3		
ボードサイズ	200 mm (幅) X 244 mm (高さ)		200 mm (幅) X 244 mm (高さ)	
特殊機能	RAID 0 / 1 / 5 / 10 のサポート		RAID 0 / 1 / 5 / 10 のサポート	
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。		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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