# Table of Contents

Chapter 1:	Introduction 1
1.1	Before You Start
1.2	Package Checklist
1.3	Motherboard Features2
1.4	Rear Panel Connectors3
1.5	Motherboard Layout
Chapter 2:	Hardware Installation5
2.1	Installing Central Processing Unit (CPU)
2.2	FAN Headers7
2.3	Installing System Memory8
2.4	Connectors and Slots
Chapter 3:	Headers & Jumpers Setup13
3.1	How to Setup Jumpers
3.2	Detail Settings
Chapter 4:	RAID Functions
4.1	Operating System
4.2	Raid Arrays
4.3	How RAID Works
Chapter 5:	Useful Help21
5.1	Driver Installation Note
5.2	Software
5.3	Extra Information
5.4	<b>AMI BIOS Beep Code</b>
5.5	Troubleshooting
Appendix:	SPEC In Other Languages
German	
French	
Italian	
Spanish .	
Portugu	ese
Polish	
Russian.	
Arabic	
Japanese	<b>9</b>

A880G+/A785G3+

1

# **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**

- 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 CD X 1 (full version manual files inside)
- FDD Cable X 1 (optional)
- 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.

# Motherboard Manual \_\_\_\_\_

# **1.3 MOTHERBOARD FEATURES**

	A880G+	A785G3+
	Socket AM3	Socket AM3
CPU	AMD Phenom II/ Athlon II processors	AMD Phenom II/ Athlon II processors
	AMD 64 Architecture enables 32 and 64 bit	AMD 64 Architecture enables 32 and 64 bit
	computing	computing
	Supports Hyper Transport 3.0 and Coo⊨n=Quiet	Supports Hyper Transport 3.0 and Coo⊨n=Quiet
	(Maximum Watt: 125W)	(Maximum Watt: 125W)
FCB	Support HyperTransport 3.0	Support HyperTransport 3.0
130	Supports up to 5.2 GT/s Bandwidth	Supports up to 5.2 GT/s Bandwidth
Chincot	AMD 880G	AMD 785G
Chipset	AMD SB710	AMD SB710
	ITE 8721	ITE 8721
	Provides the most commonly used legacy Super	Provides the most commonly used legacy Super
	I/O functionality	I/O functionality
Super I/O	Low Pin Count Interface	Low Pin Count Interface
	Environment Control initiatives	Environment Control initiatives
	H/W Monitor	H/W Monitor
	ITE's "Smart Guardian" function	ITE's "Smart Guardian" function
	DDR3 DIMM Slots x 2	DDR3 DIMM Slots x 2
	Max Memory Capacity 8GB	Max Memory Capacity 8GB
	Each DIMM supports 512MB/1GB/2GB/4GB	Each DIMM supports 512MB/1GB/2GB/4GB
Main	DDR3	DDR3
Memory	Dual Channel Mode DDR3 memory module	Dual Channel Mode DDR3 memory module
	Supports DDR3 800 / 1066 / 1333	Supports DDR3 800 / 1066 / 1333
	Registered DIMM and ECC DIMM is not	Registered DIMM and ECC DIMM is not
	supported	supported
	Integrated in AMD 880G Chipset	Integrated in AMD 785G Chipset
Graphics	Max Shared Video Memory is 512MB	Max Shared Video Memory is 512MB
	DVI/HDMI/HDCP/UVD2 support	DVI/HDMI/HDCP/UVD2 support
	Integrated IDE Controller	Integrated IDE Controller
IDE	Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode	Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode
	supports PIO Mode 0~4,	supports PIO Mode 0~4,
	Integrated Serial ATA Controller	Integrated Serial ATA Controller
SATA II	Data transfer rates up to 3 Gb/s	Data transfer rates up to 3 Gb/s
	SATA Version 2.0 specification compliant	SATA Version 2.0 specification compliant
	Realtek RTL 8111DL	Realtek RTL 8111DL
LAN	10 / 100 / 1000 Mb/s auto negotiation	10 / 100 / 1000 Mb/s auto negotiation
	Half / Full duplex capability	Half / Full duplex capability
	ALC662	ALC662
Sound	5.1 channels audio out	5.1 channels audio out
	High Definition Audio	High Definition Audio
Shte	PCI Express Gen2 x16 slot x1	PCI Express Gen2 x16 slot x1
3015	PCI slot x2	PCI slot x2

A880G+/A785G3+					
	A880G+		A785G3+		
	Floppy Connector	x1	Floppy Connector	x1	
	IDE Connector	x1	IDE Connector	x1	
	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	
On Roard	CPU Fan Header	x1	CPU Fan Header	x1	
Connoctor	System Fan Header	x1	System Fan Header	x1	
Connector	CMOS clear Header	x1	CMOS clear Header	x1	
	USB Connector	x2	USB 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	
	PS/2 Keyboard / Mouse	x1	PS/2 Keyboard / Mouse	x1	
	HDMI Port	x1	HDMI Port	x1	
Rady Dan al	VGA Port	x1	VGA Port	x1	
	DVI-D Port	x1	DVI-D Port	x1	
1/0	LAN Port	x1	LAN Port	x1	
	USB Port	x4	USB Port	x4	
	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 / 1+0 support		RAID 0 / 1 / 1+0 support		
	Windows XP / Vista / 7		Windows XP / Vista / 7		
OS Support	Biostar reserves the right to ad	d or remove	Biostar reserves the right to add or remove		
	support for any OS With or without notice.		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.



## **1.5 MOTHERBOARD LAYOUT**

**Note:**  $\blacksquare$  represents the 1<sup>st</sup> pin.

4 ·

# **CHAPTER 2: HARDWARE INSTALLATION**

# 2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



= A880G+/A785G3+

**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.

**A880G+/A785G3+** 

### 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.





#### SYS\_FAN1: System Fan Header



#### 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.

7

8

# 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.



\_\_\_\_\_ A880G+/A785G3+

## B. Memory Capacity

DIMM Socket Location	DDR3 Module	Total Memory Size	
DDR3_A1	512MB/1GB/2GB/4GB	May is 8CP	
DDR3_B1	512MB/1GB/2GB/4GB	WIAX IS OGD.	

### 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	Х	0
Disabled	0	Х
Enabled	0	0

(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 3.0Gb/s.



A880G+/A785G3+

### ATXPWR1: ATX Power Source Connector

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



### **ATXPWR2: ATX Power Source Connector**

Connecting this connector will provide +12V to CPU power circuit.



#### 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.



= A880G+/A785G3+

# 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".







Pin1-2 closed

#### Pin opened

Pin 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		9	N/A	NIA
2	N/A	Speaker	10	N/A	IVA
3	N/A	Connector	11	N/A	N/A
4	Speaker		12	Power LED (+)	
5	HDD LED (+)	Hard drive	13	Power LED (+)	Power LED
6	HDD LED (-)	LED	14	Power LED (-)	
7	Ground	Deast button	15	Power button	Dever on butten
8	Reset control	Reset bullon	16	Ground	Power-on bullon

### 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.



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

#### Pin 1-2 Close:

JUSBV1: +5V for USB ports at USBKB1/RJ45USB1.

JUSBV2: +5V for USB ports at F\_USB1/F\_USB2.

### Pin 2-3 Close:

JUSBV1: +5V STB for USB ports at USBKB1/RJ45USB1. JUSBV2: +5V STB for USB ports at F\_USB1/F\_USB2.



### JSPDIFOUT1: Digital Audio-out Connector

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



### 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.



### JCMOS1: Clear CMOS Header

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



#### **%** Clear CMOS Procedures:

- 1. Remove AC power line.
- 2. Set the jumper to "Pin 2-3 close".
- 3. Wait for five seconds.
- 4. Set the jumper to "Pin 1-2 close".
- 5. Power on the AC.
- 6. 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.



### 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.



# **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 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 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.



#### Motherboard Manual ===

### RAID 1+0:

RAID 1 drives can be stripped 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.



**A880G+/A785G3+** 

# 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.

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



```
A880G+/A785G3+
```

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.

Outlook I	Express ?X
	A program is attempting to send the following e-mail message on your behalf:
To:	support@biostar-usa.com>>>>@exx.xxx.xxx.xxx.xx
Subject:	TP35D2-A7 (P35BAC05 BS) report
	Would you like to send the message?
	Send Do Not Send

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.

Save As					?×
Save in:	Ay Document	2	۲	000-	
My Recent Documents	My Music My Pictures				
Desktop My Documents					
My Computer					
	File name:	report.txt		× [	Save
My Network	Save as type:	Text Files(".txt)		×	Cancel

File Edit Format View Help	
	~
Base board information :	
Caption : Base Board	
creationclasswame : win32_BaseBoard	
Description : Base Board	
HostingBoard I TRUE	
Manufacturer : Blostar Group	
Name : Dase Doard	
Poweradon I TRUE	
Product : TP35D2-A7	
Certalsumber :	
Tag : Bate Board	
version :	
atos toformation :	
Caption : Phoenix - Awardenos v6.0005	
CUPPERTIANNIANA : AURISTANANA,	
Description : Phoenix - Avandetos vé. 0005	
Testallable approach : 1	
Manufacturer   Physics Technologies, LTD	
Nime - Dhoandy - Avendetor us 0000	
Defendent for a fair	
Palaitabuta - 20022205000000 000000-000	
factor i con a con concernent	
Set is in the set of the set of the set	
Second Se	
instructed for the store is a	
Sector and the sector s	
seturated entry i should a soundator of older	
Softwares lement 10 : Proemix - Awardelos Vo. 00PG	
Sur twares internistate i p	
status : un	
Targetoperatingsystem 1 0	
ABL210UL : TUDEIN = #5305637	
4	

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.



Motherboard Manual ===

## **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.



INFORM	ATION	×	]
Ð	Do you want to s	save " Current BIOS " data !	
	Yes	No	

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**.

Look in	My Docum	erfi	• •	B) c# []]-	8
My Recent Decuments Decuments My Decuments My Computer	Hy Music Hy Potures Proport Ited				
Hy Network Places	File name: Files of type:	1		•	Open Cancel

BIOS		
	35%	
Programming Main Block		

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 even shows and the full screen logo shows are specified with the system of the

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:

- 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 <b><f12></f12></b> during the <b>POST</b> process. A select dialog as the picture on the righ appears. Select the device contains the BIOS file press <b><enter></enter></b> to enter the utility.	n Please select drive t Ist FLOPPY DRIVE USB: USB DISK 2.0
	BIO-FLASHER UTILITY V1.00	
File Assonor Br	Information Project Name: TA780G M2+ BIOS Date : 01/01/08	t and t to move selection ENTER to select drive
	File Date : 01/01/2008	
	🖥 Arite OK 📕 No Ubdate 📓 Arite Fail	5. The utility will show the BIOS files and their respective information. Select the proper BIOS file and press <b><enter></enter></b>
	ESC:Quit F10:PowerOFF    :SelectFile	then <b><y></y></b> 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.

Motherboard Manual \_\_\_\_\_

# 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	<ul> <li>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.</li> <li>If beep codes are generated when all other expansion cards are absent, consult your system manufacturer's technical support.</li> <li>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.</li> </ul>	
8	If the system video adapter is an add-in card, replace or reseat the video adapter is an integrated part of the system board, the board may be faulty.	

\_\_\_\_\_ A880G+/A785G3+

-				
	Probable		Solution	
1. 2.	There is no power in the system. Power LED does not shine; the fan of the power supply does not work Indicator light on keyboard does	1. 2. 3.	Make sure power cable is securely plugged in. Replace cable. Contact technical support.	
	not shine.			
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.		
Syste drive drive	em does not boot from a hard disk , but can be booted from optical	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.	
Syste drive	em only boots from an optical . Hard disks can be read.	1.	Back up data and applications files.	
applio fails t	cations can be used, but system to boot from a hard disk.	2.	Reformat the hard drive. Re-install applications and data using backup disks.	
Screen message shows "Invalid Configuration" or "CMOS Failure."		Revie corre	ew system's equipment. Make sure ct information is in setup.	
Syste seco	em cannot boot after user installs a nd 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.	

# 5.5 TROUBLESHOOTING

\_\_\_\_\_29