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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-M61PME-S2P. You'll find the answers to all your questions on the GIGABYTE GA-M61PME-S2P in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual GIGABYTE GA-M61PME-S2P
User guide GIGABYTE GA-M61PME-S2P
Operating instructions GIGABYTE GA-M61PME-S2P
Instructions for use GIGABYTE GA-M61PME-S2P
Instruction manual GIGABYTE GA-M61PME-S2P

GA-M61PME-S2P

AM2+/AM2 socket motherboard for
AMD Phenom™ FX processor/AMD Phenom™ X4 processor/
AMD Phenom™ X3 processor/AMD Athlon™ X2 processor/
AMD Athlon™ processor/AMD Sempron™ X2 processor/
AMD Sempron™ processor

User's Manual

Rev. 1002
12ME-M61PMEP2-1002R



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Manual abstract:

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Documentation Classifications In order to assist in the use of this product, GIGABYTE provides the following types of documentations: For detailed product information, carefully read the User's Manual. For instructions on how to use GIGABYTE's unique features, read or download the information on/from the SupportMotherboardTechnology Guide page on our website. For product-related information, check on our website at: <http://www.gigabyte.com.tw>

Identifying Your Motherboard Revision The revision number on your motherboard looks like this: "REV: X.X."

For example, "REV: 1.0" means the revision of the motherboard is 1.0. Check your motherboard revision before updating motherboard BIOS, drivers, or when looking for technical information. Example: -3- Table of Contents Box Contents .

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 6 Optional Items ...

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

6 GA-M61PME-S2P Motherboard Layout

.....
.....

.....
.....
.....

... 7 Block Diagram ..

.....
.....

.....
.....
.....

.....
.....
.....
.....
.....
.....
.....
.....

..... 8 Chapter 1 Hardware Installation

.....
.....
.....
.....
.....
.....

..... 9 1-1 1-2 1-3 Installation Precautions .

.....
.....
.....
.....
.....
.....

..... 9 Product Specifications

.....
.....
.....
.....
.....
.....

... 10 Installing the CPU and CPU Cooler ..

.....
.....
.....
.....

12 1-3-1 1-3-2 Installing the CPU

.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *12 Installing the CPU Cooler*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

... *14 Dual Channel Memory Configuration* .

.....
.....
.....
.....
.....

.....
.....
.....

... *15 Installing a Memory*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *16 1-4 Installing the Memory*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

. 15 1-4-1 1-4-2 1-5 1-6 1-7 *Installing an Expansion Card*

.....
.....
.....
.....
.....
.....
.....
.....

.... *17 Back Panel Connectors*

.....
.....
.....
.....
.....
.....
.....
.....

..... *18 Internal Connectors*

.....
.....
.....
.....
.....
.....
.....
.....

... *20 Chapter 2 BIOS Setup*

.....
.....
.....
.....
.....
.....
.....
.....

31 2-1 2-2 2-3 2-4 2-5 2-6 2-7 2-8 2-9 2-10 2-11 2-12 2-13 *Startup Screen*

.....
.....
.....
.....
.....
.....

.....
.....
.....
.....

..... 32 *The Main Menu*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 33 *Standard CMOS Features*

.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 35 *Advanced BIOS Features*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

..... 37 *Integrated Peripherals*

.....
.....

.....
.....
.....

.....
.....
.....
.....

..... 39 *Power Management Setup*

.....
.....
.....

.....
.....

.....
.....
.....
.....

.....
.. 48 Save & Exit Setup ...

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
. 49 Exit Without Saving

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 49 -4- Chapter 3 Drivers Installation ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 51 3-1 3-2 3-3 3-4 3-5 3-6 Installing Chipset Drivers

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 51 Application Software

.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

52 Technical Manuals

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

52 Contact

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 53 System ...

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... 53 Download Center

.....
.....
.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 54 Chapter 4 Unique Features

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 55 4-1 4-2 Xpress Recovery2

.....

.....

.....

.....

.....

.....

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.....

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.....

.....

.....

.....

.... 58 4-2-1 4-2-2 Updating the BIOS with the Q-Flash Utility .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 58 Updating the BIOS with the @BIOS Utility ..

.....

.....

.....

.....

.....
.....
.....
.....

..... 61 4-3 EasyTune 5 ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

... 63 Chapter 5 Appendix ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 65 5-1 Configuring SATA Hard Drive(s) ..

.....
.....
.....
.....

.....
.....
.....
.....

..... 65 5-1-1 5-1-2 5-1-3 Configuring the Onboard SATA Controller

.....
.....
.....

.....
.....
.....
.....

... 65 Making a SATA RAID Driver Diskette for Windows XP

.....
.....
.....

..... 70 Installing the SATA RAID Driver and Operating System ...

.....

.....
.....
..... 71 Configuring 2/4/5.
1/7.1-Channel Audio

.....
.....
.....
.....
.....

.....
.....
..... 73 Configuring S/PDIF In/Out

.....
.....
.....
.....
.....
.....
.....
.....
.....

... 76 Configuring Microphone Recording

.....
.....
.....
.....
.....
.....

.....
.....
..... 78 Using the Sound Recorder

.....
.....
.....
.....
.....
.....
.....
.....
.....

.....
.....
..... 80 Frequently Asked Questions

.....
.....
.....
.....
.....
.....

.....
.....
... 81 Troubleshooting Procedure ..

.....

unplugging the power cord from the power outlet before . . . installing or removing the motherboard or other hardware components. When connecting hardware components to the internal connectors on the motherboard, make sure they are connected tightly and securely. When handling the motherboard, avoid touching any metal leads or connectors. It is best to wear an electrostatic discharge (ESD) wrist strap when handling electronic components such as a motherboard, CPU or memory. If you do not have an ESD wrist strap, keep your hands dry and first touch a metal object to eliminate static electricity. Prior to installing the motherboard, please have it on top of an antistatic pad or within an electrostatic shielding container. Before unplugging the power supply cable from the motherboard, make sure the power supply has been turned off. Before turning on the power, make sure the power supply voltage has been set according to the local voltage standard.

Before using the product, please verify that all cables and power connectors of your hardware components are connected. To prevent damage to the motherboard, do not allow screws to come in contact with the motherboard circuit or its components. Make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing. Do not place the computer system on an uneven surface. Do not place the computer system in a high-temperature environment. Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user. If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician. -9- Hardware Installation 1-2 CPU Product Specifications Support for Socket AM2+/AM2 processors: AMD Phenom™ FX processor/AMD Phenom™ X4 processor/ AMD Phenom™ X3 processor/AMD Athlon™ X2 processor/ AMD Athlon™ processor/AMD Sempron™ X2 processor/ AMD Sempron™ processor (Go to GIGABYTE's website for the latest CPU support list.



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) 2000 MT/s NVIDIA® GeForce 6100/nForce 430 chipset 2 x 1.8V DDR2 DIMM sockets supporting up to 8 GB of system memory (Note 1) Dual channel memory architecture Support for DDR2 1066/800/667 MHz memory modules (Go to GIGABYTE's website for the latest memory support list of the Socket AM2 Socket A Small Triangle Marking Denotes CPU Pin One AM2+/AM2 CPU GA-M61PME-S2P Motherboard - 12 - B.

Follow the steps below to correctly install the CPU into the motherboard CPU socket. Before installing the CPU, make sure to turn off the computer and unplug the power cord from the power outlet to prevent damage to the CPU. CPU Socket Locking Lever Step 1: Completely lift up the CPU socket locking lever. Step 2: Align the CPU pin one (small triangle marking) with the triangle mark on the CPU socket and gently insert the CPU into the socket. Make sure that the CPU pins fit perfectly into their holes.

Once the CPU is positioned into its socket, place one finger down on the middle of the CPU, lowering the locking lever and latching it into the fully locked position. Do not force the CPU into the CPU socket. The CPU cannot fit in if oriented incorrectly. Adjust the CPU orientation if this occurs. - 13 - Hardware Installation 1-3-2 Installing the CPU Cooler Follow the steps below to correctly install the CPU cooler on the CPU.

(The following procedure uses the GIGABYTE cooler as the example.) Step 1: Apply an even and thin layer of thermal grease on the surface of the installed CPU. Step 2: Place the CPU cooler on the CPU. Step 3: Hook the CPU cooler clip to the mounting lug on one side of the retention frame. On the other side, push straight down on the CPU cooler clip to hook it to the mounting lug on the retention frame. Step 4: Turn the cam handle from the left side to the right side (as the picture above shows) to lock into place. (Refer to your CPU cooler installation manual for instructions on installing the cooler.) Step 5: Finally, attach the power connector of the CPU cooler to the CPU fan header (CPU_FAN) on the motherboard. Use extreme care when removing the CPU cooler because the thermal grease/tape between the CPU cooler and CPU may adhere to the CPU. Inadequately removing the CPU cooler may damage the CPU.

GA-M61PME-S2P Motherboard - 14 - 1-4 Installing the Memory Read the following guidelines before you begin to install the memory: · Make sure that the motherboard supports the memory. It is recommended that memory of the same capacity, brand, speed, and chips be used. (Go to GIGABYTE's website for the latest memory support list.) · Always turn off the computer and unplug the power cord from the power outlet before installing the memory to prevent hardware damage. · Memory modules have a foolproof design. A memory module can be installed in only one direction. If you are unable to insert the memory, switch the direction. 1-4-1 Dual Channel Memory Configuration This motherboard provides two DDR2 memory sockets and supports Dual Channel Technology. After the memory is installed, the BIOS will automatically detect the specifications and capacity of the memory. Enabling Dual Channel memory mode will double the original memory bandwidth.

The two DDR2 memory sockets are divided into two channels as following: Channel 0: DDR2_1 Channel 1: DDR2_2 Due to CPU limitation, read the following guidelines before installing the memory in Dual Channel mode. 1. Dual Channel mode cannot be enabled if only one DDR2 memory module is installed. 2. When enabling Dual Channel mode with two memory modules, it is recommended that memory of the same capacity, brand, speed, and chips be used.

DDR2_1 DDR2_2 - 15 - Hardware Installation 1-4-2 Installing a Memory Before installing a memory module, make sure to turn off the computer and unplug the power cord from the power outlet to prevent damage to the memory module. DDR2 DIMMs are not compatible to DDR DIMMs. Be sure to install DDR2 DIMMs on this motherboard. Notch DDR2 DIMM A DDR2 memory module has a notch, so it can only fit in one direction. Follow the steps below to correctly install your memory modules in the memory sockets.

Step 1: Note the orientation of the memory module. Spread the retaining clips at both ends of the memory socket. Place the memory module on the socket. As indicated in the picture on the left, place your fingers on the top edge of the memory, push down on the memory and insert it vertically into the memory socket.

Step 2: The clips at both ends of the socket will snap into place when the memory module is securely inserted. GA-M61PME-S2P Motherboard - 16 - 1-5

Installing an Expansion Card Read the following guidelines before you begin to install an expansion card: · Make sure the motherboard supports the expansion card. Carefully read the manual that came with your expansion card. · Always turn off the computer and unplug the power cord from the power outlet before installing an expansion card to prevent hardware damage. PCI Express x16 Slot PCI Express x1 Slot PCI Slot Follow the steps below to correctly install your expansion card in the expansion slot. 1.

Locate an expansion slot that supports your card. Remove the metal slot cover from the chassis back panel. 2. Align the card with the slot, and press down on the card until it is fully seated in the slot. 3. Make sure the metal contacts on the card are completely inserted into the slot. 4. Secure the card's metal bracket to the chassis back panel with a screw. 5. After installing all expansion cards, replace the chassis cover(s).

6. Turn on your computer. If necessary, go to BIOS Setup to make any required BIOS changes for your expansion card(s). 7. Install the driver provided with the expansion card in your operating system.

Example: Installing and Removing a PCI Express x16 Graphics Card: · Installing a Graphics Card: Gently push down on the top edge of the card until it is fully inserted into the PCI Express x16 slot. Make sure the card is securely seated in the slot and does not rock. · Removing the Card: Gently push back on the lever on the slot and then lift the card straight out from the slot. - 17 - Hardware Installation 1-6 Back Panel Connectors PS/2 Keyboard and PS/2 Mouse Port Use the upper port (green) to connect a PS/2 mouse and the lower port (purple) to connect a PS/2 keyboard. Parallel Port Use the parallel port to connect devices such as a printer, scanner and etc.

The parallel port is also called a printer port. Serial Port Use the serial port to connect devices such as a mouse, modem or other peripherals. D-Sub Port The D-Sub port supports a 15-pin D-Sub connector. Connect a monitor that supports D-Sub connection to this port. USB Port The USB port supports the USB 2.0/1.1 specification. Use this port for USB devices such as an USB keyboard/mouse, USB printer, USB flash drive and etc. RJ-45 LAN Port The Fast Ethernet LAN port provides Internet connection at up to 100 Mbps data rate.



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The following describes the states of the LAN port LEDs.

Connection/ Speed LED Activity LED Connection/Speed LED: State Description Green 100 Mbps data rate Off LAN Port 10 Mbps data rate Activity LED: State Blinking Off Description Data transmission or receiving is occurring No data transmission or receiving is occurring · When removing the cable connected to a back panel connector, first remove the cable from your device and then remove it from the motherboard. · When removing the cable, pull it straight out from the connector. Do not rock it side to side to prevent an electrical short inside the cable connector. GA-M61PME-S2P Motherboard - 18 - Line In Jack (Blue) The default line in jack. Use this audio jack for line in devices such as an optical drive, walkman, etc. Line Out Jack (Green) The default line out jack. Use this audio jack for a headphone or 2-channel speaker. This jack can be used to connect front speakers in a 4/5.1/7.1-channel audio configuration.

Mic In Jack (Pink) The default Mic in jack. Microphones must be connected to this jack. To configure 7.1-channel audio, you need to install a 5.1/7.1 surround cable (optional) and enable the multi-channel audio feature through the audio driver. Refer to the instructions on setting up a 2/4/5.1/7.1-channel audio configuration in Chapter 5, "Configuring 2/4/5.1/7.1-channel

1 Channel Audio." - 19 - Hardware Installation 1-7 Internal Connectors 1 2 3 6 16 11 12 17 9 13 15 7 14 5 4 8 10 1) 2) 3) 4) 5) 6) 7) 8) 9) ATX_12V ATX CPU_FAN SYS_FAN FDD IDE SATA2_0 / SATA2_1 PWR_LED BAT 10) 11) 12) 13) 14) 15) 16) 17) F_PANEL F_AUDIO HDA_SUR CD_IN SPDIF_IO F_USB1 / F_USB2 CI CLR_CMOS Read the following guidelines before connecting external devices: · First make sure your devices are compliant with the connectors you wish to connect. · Before installing the devices, be sure to turn off the devices and your computer. Unplug the power cord from the power outlet to prevent damage to the devices. · After installing the device and before turning on the computer, make sure the device cable has been securely attached to the connector on the motherboard. GA-M61PME-S2P Motherboard - 20 - 1/2) ATX_12V/ATX (2x2 12V Power Connector and 2x12 Main Power Connector) With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard. Before connecting the power connector, first make sure the power supply is turned off and all devices are properly installed. The power connector possesses a foolproof design. Connect the power supply cable to the power connector in the correct orientation. The 12V power connector mainly supplies power to the CPU.

If the 12V power connector is not connected, the computer will not start. · To meet expansion requirements, it is recommended that a power supply that can withstand high power consumption be used (500W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable or unbootable system. · The main power connector is compatible with power supplies with 2x10 power connectors. When using a 2x12 power supply, remove the protective cover from the main power connector on the motherboard. Do not insert the power supply cable into pins under the protective cover when using a 2x10 power supply. ATX_12V: Pin No. 2 4 ATX_12V 1 3 Definition GND GND +12V +12V 1 2 3 4 13 1 ATX: Pin No. 1 2 3 4 5 6 7 8 9 24 12 Definition 3.3V 3.

3V GND +5V GND +5V GND Power Good 5V SB(stand by +5V) +12V +12V (Only for 2x12-pinATX) 3.3V (Only for 2x12-pinATX) Pin No. 13 14 15 16 17 18 19 20 21 22 23 24 Definition 3.3V -12V GND PS_ON(soft On/Off) GND GND GND -5V +5V +5V +5V (Only for 2x12-pin ATX) GND (Only for 2x12-pin ATX) 10 11 12 ATX - 21 - Hardware Installation 3/4) CPU_FAN/SYS_FAN (Fan Headers) The motherboard has a 4-pin CPU fan header (CPU_FAN) and a 3-pin system fan header (SYS_FAN). Most fan headers possess a foolproof insertion design.

When connecting a fan cable, be sure to connect it in the correct orientation (the black connector wire is the ground wire). The motherboard supports CPU fan speed control, which requires the use of a CPU fan with fan speed control design. For optimum heat dissipation, it is recommended that a system fan be installed inside the chassis. CPU_FAN: Pin No. 1 2 1 CPU_FAN Definition GND +12V / Speed Control Sense Speed Control Definition GND +12V Sense 3 4 SYS_FAN: Pin No.

1 SYS_FAN 1 2 3 · Be sure to connect fan cables to the fan headers to prevent your CPU and system from overheating. Overheating may result in damage to the CPU or the system may hang. · These fan headers are not configuration jumper blocks. Do not place a jumper cap on the headers. 5) FDD (Floppy Disk Drive Connector) This connector is used to connect a floppy disk drive. The types of floppy disk drives supported are: 360 KB, 720 KB, 1.2 MB, 1.44 MB, and 2.88 MB. Before connecting a floppy disk drive, be sure to locate pin 1 of the connector and the floppy disk drive cable.

The pin 1 of the cable is typically designated by a stripe of different color. 33 1 34 2 GA-M61PME-S2P Motherboard - 22 - 6) IDE (IDE Connector) The IDE connector supports up to two IDE devices such as hard drives and optical drives. Before attaching the IDE cable, locate the foolproof groove on the connector. If you wish to connect two IDE devices, remember to set the jumpers and the cabling according to the role of the IDE devices (for example, master or slave). (For information about configuring master/slave settings for the IDE devices, read the instructions from the device manufacturers.) 40 39 2 1 7) SATA2_0/SATA2_1 (SATA 3Gb/s Connectors) The SATA connectors conform to SATA 3Gb/s standard and are compatible with SATA 1.5Gb/s standard. Each SATA connector supports a single SATA device. The NVIDIA ® GeForce 6100/ nForce 430 chipset controller supports RAID 0 and RAID 1. Refer to Chapter 5, "Configuring SATA Hard Drive(s)," for instructions on configuring a RAID array.

Pin No. SATA2_0 7 1 SATA2_1 1 7 Definition GND TXP TXN GND RXN RXP GND 1 2 3 4 5 6 7 Please connect the L-shaped end of the SATA 3Gb/s cable to your SATA hard drive. A RAID 0 or RAID 1 configuration requires two hard drives. - 23 Hardware Installation 8) PWR_LED (System Power LED Header) This header can be used to connect a system power LED on the chassis to indicate system power status. The LED is on when the system is operating. The LED keeps blinking when the system is in S1 sleep state. The LED is off when the system is in S3/S4 sleep state or powered off (S5). Pin No. 1 2 3 Definition MPD+ MPDMPD- 1 System Status LED S0 S1 S3/S4/S5 On Blinking Off 9) BAT (BATTERY) The battery provides power to keep the values (such as BIOS configurations, date, and time information) in the CMOS when the computer is turned off.



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Replace the battery when the battery voltage drops to a low level, or the CMOS values may not be accurate or may be lost.

You may clear the CMOS values by removing the battery: 1. Turn off your computer and unplug the power cord. 2. Gently remove the battery from the battery holder and wait for one minute. (Or use a metal object like a screwdriver to touch the positive and negative terminals of the battery holder, making them short for 5 seconds.) 3. Replace the battery. 4. Plug in the power cord and restart your computer. · Always turn off your computer and unplug the power cord before replacing the battery.

· Replace the battery with an equivalent one. Danger of explosion if the battery is replaced with an incorrect model. · Contact the place of purchase or local dealer if you are not able to replace the battery by yourself or uncertain about the battery model. · When installing the battery, note the orientation of the positive side (+) and the negative side (-) of the battery (the positive side should face up). · Used batteries must be handled in accordance with local environmental regulations. GA-M61PME-S2P Motherboard - 24 - 10) F_PANEL (Front Panel Header) Connect the power switch, reset switch, speaker and system status indicator on the chassis front panel to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables. Message/Power/Sleep LED Power Switch Speaker MSG+ MSGPW+ PW- SPEAK+ 2 1 RES+ NC HD- SPEAK- 20 19 HD+ Hard Drive Activity LED · MSG (Message/Power/Sleep LED, Yellow): Connects to the power status indicator on the chassis front panel. The System Status LED is on when the system is operating. The LED keeps blinking when S0 On S1 Blinking the system is in S1 sleep state.

The LED is off when the system is in S3/S4/S5 Off S3/S4 sleep state or powered off (S5). · PW (Power Switch, Red): Connects to the power switch on the chassis front panel. You may configure the way to turn off your system using the power switch (refer to Chapter 2, "BIOS Setup," "Power Management Setup," for more information). · SPEAK (Speaker, Orange): Connects to the speaker on the chassis front panel. The system reports system startup status by issuing a beep code.

One single short beep will be heard if no problem is detected at system startup. If a problem is detected, the BIOS may issue beeps in different patterns to indicate the problem. Refer to Chapter 5, "Troubleshooting," for information about beep codes. · HD (Hard Drive Activity LED, Blue) Connects to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

· RES (Reset Switch, Green): Connects to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart. · NC (Purple): No connection The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly. - 25 Hardware Installation RES- Reset Switch 11) F_AUDIO (Front Panel Audio Header) The front panel audio header supports Intel High Definition audio (HD) and AC'97 audio. You may connect your chassis front panel audio module to this header. Make sure the wire assignments of the module connector match the pin assignments of the motherboard header. Incorrect connection between the module connector and the motherboard header will make the device unable to work or even damage it. 10 9 For HD Front Panel Audio: Pin No.

Definition 1 MIC2_L 2 3 4 5 6 7 8 9 10 GND MIC2_R -ACZ_DET LINE2_R GND FAUDIO_JD No Pin LINE2_L GND For AC'97 Front Panel Audio: Pin No. Definition 1 MIC 2 3 4 5 6 7 8 9 10 GND MIC Power NC Line Out (R) NC NC No Pin Line Out (L) NC 2 1 · The front panel audio header supports HD audio by default. If your chassis provides an AC'97 front panel audio module, refer to the instructions on how to activate AC'97 functionality via the audio software in Chapter 5, "Configuring 2/4/5.1-Channel Audio." · Audio signals will be present on both of the front and back panel audio connections simultaneously. If you want to mute the back panel audio (only supported when using an HD front panel audio module), refer to Chapter 5, "Configuring 2/4/5.1-Channel Audio." · Some chassis provide a front panel audio module that has separated connectors on each wire instead of a single plug. For information about connecting the front panel audio module that has different wire assignments, please contact the chassis manufacturer. 12) HDA_SUR (Surround/Center Audio Header) To enable 7.

1-channel audio, connect a 5.1/7.1 surround cable to this header and configure audio output mode via the audio software. For purchasing the optional 5.1/7.1 surround cable, please contact the local dealer. Pin No. 1 2 14 Definition LEF_P SURR_RR CEN_P SURR_LL CEN_JD SURR_JD GND -SUR_DET GND No Pin GND S_SURR_JD S_SURR_LL S_SURR_RR 2 3 4 5 6 7 8 9 10 11 12 13 14 1 13 GA-M61PME-S2P Motherboard - 26 - 13) CD_IN (CD In Connector) You may connect the audio cable that came with your optical drive to the header. Pin No. 1 1 Definition CD-L GND GND CD-R 2 3 4 14) SPDIF_IO (S/PDIF Out Header) This header supports digital S/PDIF out.

Via an optional S/PDIF out cable, this header can connect to an audio device that supports digital audio in. For purchasing the optional S/PDIF out cable, please contact the local dealer. Pin No. 5 6 1 2 Definition Power No Pin SPDIF SPDIFI GND GND 1 2 3 4 5 6 Pin 1 (the red wire) of the S/PDIF out cable must align with pin 1 of the SPDIF_IO header. Incorrect connection may render the device unusable or even result in damage to the device. - 27 - Hardware Installation 15) F_USB1/F_USB2 (USB Headers) The headers conform to USB 2.0/1.1 specification. Each USB header can provide two USB ports via an optional USB bracket. For purchasing the optional USB bracket, please contact the local dealer.

Pin No. 1 2 2 10 Definition Power (5V) Power (5V) USB DXUSB DYUSB DX+ USB DY+ GND GND No Pin NC 3 4 5 6 7 8 9 10 1 9 · Do not plug the IEEE 1394 bracket (2x5-pin) cable into the USB header. · Prior to installing the USB bracket, be sure to turn off your computer and unplug the power cord from the power outlet to prevent damage to the USB bracket. 16) CI (Chassis Intrusion Header) This motherboard provides a chassis detection feature that detects if the chassis cover has been removed. This function requires a chassis with chassis intrusion detection design. Pin No. 1 Definition Signal GND 1 2 GA-M61PME-S2P Motherboard - 28 - 17) CLR_CMOS (Clearing CMOS Jumper) Use this jumper to clear the CMOS values (e.



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g. date information and BIOS configurations) and reset the CMOS values to factory defaults. To clear the CMOS values, place a jumper cap on the two pins to temporarily short the two pins or use a metal object like a screwdriver to touch the two pins for a few seconds.

Open: Normal Short: Clear CMOS Values · Always turn off your computer and unplug the power cord from the power outlet before clearing the CMOS values. · After clearing the CMOS values and before turning on your computer, be sure to remove the jumper cap from the jumper. Failure to do so may cause damage to the motherboard. · After system restart, go to BIOS Setup to load factory defaults (select Load Optimized Defaults) or manually configure the BIOS settings (refer to Chapter 2, "BIOS Setup," for BIOS configurations). - 29 - Hardware Installation GA-M61PME-S2P Motherboard - 30 - Chapter 2 BIOS Setup BIOS (Basic Input and Output System) records hardware parameters of the system in the CMOS on the motherboard.

Its major functions include conducting the Power-On Self-Test (POST) during system startup, saving system parameters and loading operating system, etc. BIOS includes a BIOS Setup program that allows the user to modify basic system configuration settings or to activate certain system features. When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS to keep the configuration values in the CMOS. To access the BIOS Setup program, press the <Delete> key during the POST when the power is turned on. To see more advanced BIOS Setup menu options, you can press <Ctrl> + <F1> in the main menu of the BIOS Setup program.

To upgrade the BIOS, use either the GIGABYTE Q-Flash or @BIOS utility. · Q-Flash allows the user to quickly and easily upgrade or back up BIOS without entering the operating system. · @BIOS is a Windows-based utility that searches and downloads the latest version of BIOS from the Internet and updates the BIOS. For instructions on using the Q-Flash and @BIOS utilities, refer to Chapter 4, "BIOS Update Utilities." · Because BIOS flashing is potentially risky, if you do not encounter problems using the current version of BIOS, it is recommended that you not flash the BIOS. To flash the BIOS, do it with caution. Inadequate BIOS flashing may result in system malfunction. · BIOS will emit a beep code during the POST. Refer to Chapter 5, "Troubleshooting," for the beep codes description. · It is recommended that you not alter the default settings (unless you need to) to prevent system instability or other unexpected results.

Inadequately altering the settings may result in system's failure to boot. If this occurs, try to clear the CMOS values and reset the board to default values.

(Refer to the "Load Optimized Defaults" section in this chapter or introductions of the battery/clearing CMOS jumper in Chapter 1 for how to clear the CMOS values.) - 31 - BIOS Setup 2-1 Startup Screen Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2008, Award Software, Inc.

The following screen may appear when the computer boots. Motherboard Model BIOS Version GA-M61PME-S2P E8

: BIOS Setup <F9>: XpressRecovery2 <F12>: Boot Menu <End>: Qflash 12/16/2008-NV-MCP61-6A61KG0AC-00 Function Keys Function Keys:
: BIOS Setup Press the <Delete> key to enter BIOS Setup or to access the Q-Flash utility in BIOS Setup. <F9>: Xpress Recovery2 If you have ever entered Xpress Recovery2 to back up hard drive data using the motherboard driver disk, the <F9> key can be used for subsequent access to XpressRecovery2 during the POST. For more information, refer to Chapter 4, "Xpress Recovery2." <F12>: Boot Menu Boot Menu allows you to set the first boot device without entering BIOS Setup. In Boot Menu, use the up arrow key < > or the down arrow key < > to select the first boot device, then press <Enter> to accept. To exit Boot Menu, press <Esc>. The system will directly boot from the device configured in Boot Menu. Note: The setting in Boot Menu is effective for one time only. After system restart, the device boot order will still be based on BIOS Setup settings. You can access Boot Menu again to change the first boot device setting as needed.

<End>: Q-Flash Press the <End> key to access the Q-Flash utility directly without having to enter BIOS Setup first. GA-M61PME-S2P Motherboard - 32 - 2-2 The Main Menu Once you enter the BIOS Setup program, the Main Menu (as shown below) appears on the screen. Use arrow keys to move among the items and press <Enter> to accept or enter a sub-menu. (Sample BIOS Version: E8) CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Time, Date, Hard Disk Type... ESC: Quit F8: Q-Flash BIOS Setup Program Function Keys < > < > <Enter> <Esc> < > < > Move the selection bar to select an item Execute command or enter the submenu Main Menu: Exit the BIOS Setup program Submenus: Exit current submenu Increase the numeric value or make changes Decrease the numeric value or make changes Show descriptions of the function keys Move cursor to the Item Help block on the right (submenus only) Restore the previous BIOS settings for the current submenus Load the Fail-Safe BIOS default settings for the current submenus Load the Optimized BIOS default settings for the current submenus Access the Q-Flash utility Display system information Save all the changes and exit the BIOS Setup program <Page Up> <Page Down> <F1> <F2> <F5> <F6> <F7> <F8> <F9> <F10> Main Menu Help The onscreen description of a highlighted setup option is displayed on the bottom line of the Main Menu. Submenu Help While in a submenu, press <F1> to display a help screen (General Help) of function keys available for the menu. Press <Esc> to exit the help screen. Help for each item is in the Item Help block on the right side of the submenu.

· If you do not find the settings you want in the Main Menu or a submenu, press <Ctrl>+<F1> to access more advanced options. · When the system is not stable as usual, select the Load Optimized Defaults item to set your system to its defaults. · The BIOS Setup menus described in this chapter are for reference only and may differ by BIOS version. - 33 BIOS Setup Standard CMOS Features Use this menu to configure the system time and date, hard drive types, floppy disk drive types, and the type of errors that stop the system boot, etc.



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Advanced BIOS Features Use this menu to configure the device boot order, advanced features available on the CPU, and the primary display adapter. Integrated Peripherals Use this menu to configure all peripheral devices, such as IDE, SATA, USB, integrated audio, and integrated LAN, etc. Power Management Setup Use this menu to configure all the power-saving functions. PnP/PCI Configurations Use this menu to configure the system's PCI & PnP resources. PC Health Status Use this menu to see information about autodetected system/CPU temperature, system voltage and fan speed, etc. Load Fail-Safe Defaults Fail-Safe defaults are factory settings for the most stable, minimal-performance system operations.

Load Optimized Defaults Optimized defaults are factory settings for optimal-performance system operations. Set Supervisor Password Change, set, or disable password. It allows you to restrict access to the system and BIOS Setup. A supervisor password allows you to make changes in BIOS Setup. Set User Password Change, set, or disable password.

It allows you to restrict access to the system and BIOS Setup. An user password only allows you to view the BIOS settings but not to make changes. Save & Exit Setup Save all the changes made in the BIOS Setup program to the CMOS and exit BIOS Setup. (Pressing <F10> can also carry out this task.) Exit Without Saving Abandon all changes and the previous settings remain in effect.

Pressing <Y> to the confirmation message will exit BIOS Setup. (Pressing <Esc> can also carry out this task.) GA-M61PME-S2P Motherboard - 34 - 2-3 Standard CMOS Features CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Standard CMOS Features Date (mm:dd:yy) Time (hh:mm:ss) Mon, Dec 15 2008 11:52:24 [None] [None] [None] [None] [1.44M, 3.5"] [Disabled] [All, But Keyboard] 640K 447M Item Help Menu Level IDE Channel 0 Master IDE Channel 0 Slave IDE Channel 2 Master IDE Channel 3 Master Drive A Floppy 3 Mode Support Halt On Base Memory Extended Memory : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Default F10: Save ESC: Exit F1: General Help F7: Optimized Defaults Date Sets the system date. The date format is week (read-only), month, date and year. Select the desired field and use the up arrow or down arrow key to set the date. Time Sets the system time. For example, 1 p.m.

is 13:0:0. Select the desired field and use the up arrow or down arrow key to set the time. IDE Channel 0 Master/Slave IDE HDD Auto-Detection Press <Enter> to autodetect the parameters of the IDE/SATA device on this channel. IDE Channel 0 Master/Slave Configure your IDE/SATA devices by using one of the three methods below: · Auto Lets BIOS automatically detect IDE/SATA devices during the POST. (Default) · None If no IDE/SATA devices are used, set this item to None so the system will skip the detection of the device during the POST for faster system startup. · Manual Allows you to manually enter the specifications of the hard drive when the hard drive access mode is set to CHS. Access Mode Sets the hard drive access mode. Options are: Auto (default), CHS, LBA, Large. IDE Channel 2/3 Master IDE Auto-Detection Press <Enter> to autodetect the parameters of the IDE/SATA device on this channel. Extended IDE Drive Configure your IDE/SATA devices by using one of the two methods below: · Auto Lets BIOS automatically detect IDE/SATA devices during the POST.

(Default) · None If no IDE/SATA devices are used, set this item to None so the system will skip the detection of the device during the POST for faster system startup. Access Mode Sets the hard drive access mode. Options are: Auto (default), Large. - 35 BIOS Setup The following fields display your hard drive specifications. If you wish to enter the parameters manually, refer to the information on the hard drive.

Capacity Approximate capacity of the currently installed hard drive. Cylinder Head Precomp Landing Zone Sector Number of cylinders. Number of heads. Write precompensation cylinder. Landing zone.

Number of sectors. Drive A Allows you to select the type of floppy disk drive installed in your system. If you do not install a floppy disk drive, set this item to None. Options are: None, 360K/5.25", 1.2M/5.25", 720K/3.5", 1.44M/3.5", 2.

88M/3.5". Floppy 3 Mode Support Allows you to specify whether the installed floppy disk drive is 3-mode floppy disk drive, a Japanese standard floppy disk drive. Options are: Disabled (default), Drive A. Halt On Allows you to determine whether the system will stop for an error during the POST. No Errors The system boot will not stop for any error. All Errors Whenever the BIOS detects a non-fatal error the system boot will stop. All, But Keyboard The system boot will not stop for a keyboard error but stop for all other errors. (Default) All, But Diskette The system boot will not stop for a floppy disk drive error but stop for all other errors. All, But Disk/Key The system boot will not stop for a keyboard or a floppy disk drive error but it will stop for all other errors.

Memory These fields are read-only and are determined by the BIOS POST. Base Memory Also called conventional memory. Typically, 640 KB will be reserved for the MS-DOS operating system. Extended Memory The amount of extended memory. GA-M61PME-S2P Motherboard - 36 - 2-4 Advanced BIOS Features CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Advanced BIOS Features [Disabled] [Enabled] [Auto] [Press Enter] [Floppy] [Hard Disk] [CDROM] [Setup] [Disabled] [Disabled] [PEG] [64M] [Enable If No Ext PEG] Item Help Menu Level Virtualization Patch AMD TLB Erratum (Note) AMD K8 Cool&Quiet control Hard Disk Boot Priority First Boot Device Second Boot Device Third Boot Device Password Check HDD S.

M.A.R.T. Capability Away Mode Init Display First Frame Buffer Size Onboard GPU : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults Virtualization Virtualization allows a platform to run multiple operating systems and applications in independent partitions.

With virtualization, one computer system can function as multiple virtual systems. (Default: Disabled) Patch AMD TLB Erratum (Note) Enables or disables the Patch AMD TLB Erratum function. (Default: Enabled) AMD K8 Cool&Quiet control Auto Disabled Lets the AMD Cool'n'Quiet driver dynamically adjust the CPU clock and VIA to reduce heat output from your computer and its power consumption. (Default) Disable this function. Hard Disk Boot Priority Specifies the sequence of loading the operating system from the installed hard drives. Use the up or down arrow key to select a hard drive, then press the plus key <+> (or <PageUp>) or the minus key <-> (or <PageDown>) to move it up or down on the list.



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Press <Esc> to exit this menu when finished. First/Second/Third Boot Device Specifies the boot order from the available devices. Use the up or down arrow key to select a device and press <Enter> to accept. Options are: Floppy, LS120, Hard Disk, CDROM, ZIP, USB-FDD, USB-ZIP, USB-CDROM, USB-HDD, Legacy LAN, Disabled.

(Note) This item is present only if you install a CPU that supports this feature. - 37 BIOS Setup Password Check Specifies whether a password is required every time the system boots, or only when you enter BIOS Setup. After configuring this item, set the password(s) under the Set Supervisor/User Password item in the BIOS Main Menu. Setup A password is only required for entering the BIOS Setup program. (Default) System A password is required for booting the system and for entering the BIOS Setup program. HDD S.M.A.R.T.

Capability Enables or disables the S.M.A.R.T.

(Self Monitoring and Reporting Technology) capability of your hard drive. This feature allows your system to report read/write errors of the hard drive and to issue warnings when a third party hardware monitor utility is installed. (Default: Disabled) Away Mode Enables or disables Away Mode in Windows XP Media Center operating system. Away Mode allows the system to silently perform unattended tasks while in a low-power mode that appears off (Default: Disabled) Init Display First Specifies the first initiation of the monitor display from the installed PCI graphics card, PCI Express graphics card, or the onboard VGA. PCI Slot Sets the PCI graphics card as the first display.

Onboard VGA Sets the onboard VGA as the first display. PEG Sets PCI Express graphics card as the first display. (Default) Frame Buffer Size Frame buffer size is the total amount of system memory allocated solely for the onboard graphics controller. MS-DOS, for example, will use only this memory for display. Options are: 32M, 64M (default), 128M, 256M, Disabled. Onboard GPU Enables or disables the onboard VGA function. Enable If No Ext PEG Activates the onboard VGA only if no PCI Express VGA card is installed. (Default) Always Enable Always activates the onboard VGA, whether or not a PCI Express card is installed. If you wish to set up a dual view configuration, set this item to Always Enable. GA-M61PME-S2P Motherboard - 38 - 2-5 Integrated Peripherals CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Integrated Peripherals [Enabled] [Enabled] [Enabled] [SHADOW] [Press Enter] [Auto] [Auto] [Disabled] [3F8/IRQ4] [378/IRQ7] [SPP] 3 [V1.

1+V2.0] [Disabled] [Disabled] [Enabled] Item Help Menu Level On-Chip IDE Channel NV SATA Controller IDE Prefetch Mode USB Memory Type Serial-ATA RAID Config Onboard Audio Function On-Chip MAC Lan Onboard LAN Boot ROM Onboard Serial Port 1 Onboard Parallel Port Parallel Port Mode x ECP Mode Use DMA On-Chip USB Keyboard Support USB Mouse Support Legacy USB storage detect : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults On-Chip IDE Channel Enables or disables the integrated IDE controller. (Default: Enabled) NV SATA Controller Enables or disables the integrated SATA 3Gb/s controller. (Default: Enabled) IDE Prefetch Mode Enables or disables prefetch mode for the integrated IDE controller. Enabled activates the IDE prefetch buffer to enhance hard drive performance. (Default: Enabled) USB Memory Type Specifies the type of memory allocated for USB devices. Options are: SHADOW (default), Base Memory (640K). Serial-ATA RAID Config CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Serial-ATA RAID Config NV SATA RAID function x NV SATA 1 Primary RAID x NV SATA 1 Secondary RAID [Disabled] Enabled Enabled Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults - 39 - BIOS Setup NV SATA RAID function Enables or disables RAID for the integrated SATA 3Gb/s controller. Enabled allows you to configure RAID for individual SATA channel. (Default: Disabled) NV SATA 1 Primary RAID Enables or disables RAID for the first channel of the integrated SATA 3Gb/s controller.

This item is configurable only if the NV SATA RAID function item is set to Enabled. (Default: Enabled) NV SATA 1 Secondary RAID Enables or disables RAID for the second channel of the integrated SATA 3Gb/s controller. This item is configurable only if the NV SATA RAID function item is set to Enabled. Onboard Audio Function Enables or disables the onboard audio function. (Default: Auto) If you wish to install a 3rd party add-in audio card instead of using the onboard audio, set this item to Disabled.

On-Chip MAC Lan Enables or disables the onboard LAN function. (Default: Auto) If you wish to install a 3rd party add-in network card instead of using the onboard LAN, set this item to Disabled. Onboard LAN Boot ROM Allows you to decide whether to activate the boot ROM integrated with the onboard LAN chip. (Default: Disabled) Onboard Serial Port 1 Enables or disables the first serial port and specifies its base I/O address and corresponding interrupt. Options are: Auto, 3F8/IRQ4 (default), 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3, Disabled.

Onboard Parallel Port Enables or disables the onboard parallel port (LPT) and specifies its base I/O address and corresponding interrupt. Options are: 378/IRQ7 (default), 278/IRQ5, 3BC/IRQ7, Disabled. Parallel Port Mode Selects an operating mode for the onboard parallel (LPT) port. Options are: SPP (Standard Parallel Port)(default), EPP (Enhanced Parallel Port), ECP (Extended Capabilities Port), ECP+EPP. ECP Mode Use DMA Selects DMA channel for the LPT port in ECP mode. This item is configurable only if Parallel Port Mode is set to ECP or ECP+EPP mode. Options are: 3 (default), 1. On-Chip USB Configures the integrated USB controller. V1.1+V2.

0 Enables the integrated USB 1.1 and USB 2.0 controllers. (Default) V1.1 Enables only the integrated USB 1.1 controller. Disabled Disables the integrated USB 1.1 and USB 2.0 controllers. Disabled will turn off all of the USB functionalities below.

GA-M61PME-S2P Motherboard - 40 - USB Keyboard Support Allows USB keyboard to be used in MS-DOS. @@@@The system can be resumed at any time. @@@@ (Default) Delay 4 Sec. Press and hold the power button for 4 seconds to turn off the system. @@@@ Disabled Disables this function.

(Default) Double Click Double click on left button on the PS/2 mouse to turn on the system. Power On By Keyboard Allows the system to be turned on by a PS/2 keyboard wake-up event. Note: you need an ATX power supply providing at least 1A on the 5VSB lead. Disabled Disables this function. (Default)

Password Set a password with 1~5 characters to turn on the system.

Any KEY Press any key on the keyboard to turn on the system. Keyboard 98 Press POWER button on the Windows 98 keyboard to turn on the system.



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KB Power ON Password Set the password when Power On by Keyboard is set to Password. Press <Enter> on this item and set a password with up to 5 characters and then press <Enter> to accept. To turn on the system, enter the password and press <Enter>. Note: To cancel the password, press <Enter> on this item. When prompted for the password, press <Enter> again without entering the password to clear the password settings. **AC Back Function** Determines the state of the system after the return of power from an AC power loss. **Soft-Off** The system stays off upon the return of the AC power. (Default) **Full-On** The system is turned on upon the return of the AC power.

(Note) Supported on Windows® Vista® operating system only. - 43 BIOS Setup 2-7 PnP/PCI Configurations CMOS Setup Utility-Copyright (C) 1984-2008 Award Software PnP/PCI Configurations PCI 1 IRQ Assignment PCI 2 IRQ Assignment [Auto] [Auto] Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults PCI 1 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 BIOS auto-assigns IRQ to the first PCI slot. (Default) Assigns IRQ 3,4,5,7,9,10,11,12,14,15 to the first PCI slot. BIOS auto-assigns IRQ to the second PCI slot. (Default) Assigns IRQ 3,4,5,7,9,10,11,12,14,15 to the second PCI slot. PCI 2 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 GA-M61PME-S2P Motherboard - 44 - 2-8 PC Health Status CMOS Setup Utility-Copyright (C) 1984-2008 Award Software PC Health Status Reset Case Open Status Case Opened Vcore DDR2 1.8V +3.3V +12V Current System Temperature Current CPU Temperature Current CPU FAN Speed Current SYSTEM FAN Speed System Warning Temperature CPU Warning Temperature CPU FAN Fail Warning SYSTEM FAN Fail Warning CPU Smart FAN Control CPU Smart FAN Mode [Disabled] Yes OK OK OK OK 32 oC 45 oC 3245 RPM 0 RPM [Disabled] [Disabled] [Disabled] [Disabled] [Enabled] [Auto] Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults Reset Case Open Status Keeps or clears the record of previous chassis intrusion status. Enabled clears the record of previous chassis intrusion status and the Case Opened field will show "No" at next boot. (Default: Disabled) Case Opened Displays the detection status of the chassis intrusion detection device attached to the motherboard CI header.

If the system chassis cover is removed, this field will show "Yes", otherwise it will show "No". To clear the chassis intrusion status record, set Reset Case Open Status to Enabled, save the settings to CMOS, and then restart your system. Current Voltage(V) Vcore/DDR2 1.8V/+3.3V/+12V Displays the current system voltages.

Current System/CPU Temperature Displays current system/CPU temperature. Current CPU/SYSTEM FAN Speed (RPM) Displays current CPU/system fan speed. System/CPU Warning Temperature Sets the warning threshold for system/CPU temperature. When system/CPU temperature exceeds the threshold, BIOS will emit warning sound. Options are: Disabled (default), 60 oC/140 o F, 70 o C/158 oF, 80 o C/176 oF, 90 o C/194 oF.

CPU/SYSTEM FAN Fail Warning Allows the system to emit warning sound if the CPU/system fan is not connected or fails. Check the fan condition or fan connection when this occurs. (Default: Disabled) CPU Smart FAN Control Enables or disables the CPU fan speed control function. Enabled allows the CPU fan to run at different speed according to the CPU temperature. You can adjust the fan speed with EasyTune based on system requirements. If disabled, CPU fan runs at full speed. (Default: Enabled) - 45 BIOS Setup CPU Smart FAN Mode Specifies how to control CPU fan speed. This item is configurable only if CPU Smart FAN Control is set to Enabled. Auto Lets BIOS autodetect the type of CPU fan installed and sets the optimal CPU fan control mode. (Default) Voltage Sets Voltage mode for a 3-pin CPU fan.

PWM Sets PWM mode for a 4-pin CPU fan. GA-M61PME-S2P Motherboard - 46 - 2-9 Load Fail-Safe Defaults CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Load Fail-Safe Defaults (Y/N)? N Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Load Fail-Safe Defaults Esc: Quit F8: Q-Flash Press <Enter> on this item and then press the <Y> key to load the safest BIOS default settings. In case system instability occurs, you may try to load Fail-Safe defaults, which are the safest and most stable BIOS settings for the motherboard. 2-10 Load Optimized Defaults CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Load Optimized Defaults (Y/N)? N Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Load Optimized Defaults Esc: Quit F8: Q-Flash Press <Enter> on this item and then press the <Y> key to load the optimal BIOS default settings. The BIOS defaults settings helps the system to operate in optimum state. Always load the Optimized defaults after updating the BIOS or after clearing the CMOS values. - 47 - BIOS Setup 2-11 Set Supervisor/User Password CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup Enter Password: PnP/PCI Configurations PC Health Status Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Change/Set/Disable Password Esc: Quit F8: Q-Flash Press <Enter> on this item and type the password with up to 8 characters and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. The BIOS Setup program allows you to specify two separate passwords: Supervisor Password When a system password is set and the Password Check item in Advanced BIOS Features is set to Setup, you must enter the supervisor password for entering BIOS Setup and making BIOS changes.

When the Password Check item is set to System, you must enter the supervisor password (or user password) at system startup and when entering BIOS Setup. User Password When the Password Check item is set to System, you must enter the supervisor password (or user password) at system startup to continue system boot. In BIOS Setup, you must enter the supervisor password if you wish to make changes to BIOS settings.



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The user password only allows you to view the BIOS settings but not to make changes. To clear the password, press <Enter> on the password item and when requested for the password, press <Enter> again.

The message "PASSWORD DISABLED" will appear, indicating the password has been cancelled. GA-M61PME-S2P Motherboard - 48 - 2-12 Save & Exit Setup CMOS Setup Utility-Copyright (C) 1984-2008 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Save to CMOS and EXIT (Y/N)? Y Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Save Data to CMOS Esc: Quit F8: Q-Flash Press <Enter> on this item and press the <Y> key. This saves the changes to the CMOS and exits the BIOS Setup program. Press <N> or <Esc> to return to the BIOS Setup Main Menu. 2-13 Exit Without Saving CMOS Setup Utility-Copyright (C) 1984-2008Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Quit Without Saving (Y/N)? N Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Abandon all Data Esc: Quit F8: Q-Flash Press <Enter> on this item and press the <Y> key.

This exits the BIOS Setup without saving the changes made in BIOS Setup to the CMOS. Press <N> or <Esc> to return to the BIOS Setup Main Menu. - 49 - BIOS Setup GA-M61PME-S2P Motherboard - 50 - Chapter 3 Drivers Installation · Before installing the drivers, first install the operating system. · After installing the operating system, insert the motherboard driver disk into your optical drive. The driver Autorun screen is automatically displayed which looks like that shown in the screen shot below. (If the driver Autorun screen does not appear automatically, go to My Computer, double-click the optical drive and execute the Run.exe program.) 3-1 Installing Chipset Drivers After inserting the driver disk, "Xpress Install" will automatically scan your system and then list all the drivers that are recommended to install. You can click the Install All button and "Xpress Install" will install all the recommended drivers. Or click Install Single Items to manually select the drivers you wish to install.

· Please ignore the popup dialog box(es) (e.g. the Found New Hardware Wizard) displayed when "Xpress Install" is installing the drivers. Failure to do so may affect the driver installation. · Some device drivers will restart your system automatically during the driver installation. After the system restart, "Xpress Install" will continue to install other drivers. · After the drivers are installed, follow the onscreen instructions to restart your system. You can install other applications included in the motherboard driver disk. · For USB 2.0 driver support under the Windows XP operating system, please install the Windows XP Service Pack 1 or later.

After installing the SP1 (or later), if a question mark still exists in Universal Serial Bus Controller in Device Manager, please remove the question mark (by right-clicking your mouse and select Uninstall) and restart the system. (The system will then autodetect and install the USB 2.0 driver.) - 51 Drivers Installation 3-2 Application Software This page displays all the utilities and applications that GIGABYTE develops and some free software. You can click the Install button on the right of an item to install it.

3-3 Technical Manuals This page provides content descriptions for this driver disk and the motherboard manuals. GA-M61PME-S2P Motherboard - 52 - 3-4 Contact For the detailed contact information of the GIGABYTE Taiwan headquarter or worldwide branch offices, click the URL on this page to link to the GIGABYTE Website. 3-5 System This page provides the basic system information. - 53 - Drivers Installation 3-6 Download Center To update the BIOS, drivers, or applications, click the Download Center button to link to the GIGABYTE Web site. The latest version of the BIOS, drivers, or applications will be displayed.

GA-M61PME-S2P Motherboard - 54 - Chapter 4 Unique Features 4-1 Xpress Recovery2 Xpress Recovery2 is a utility that allows you to quickly compress and back up your system data and perform restoration of it. Supporting NTFS, FAT32, and FAT16 file systems, Xpress Recovery2 can back up data on PATA and SATA hard drives and restore it. Before You Begin: · Xpress Recovery2 will check the first physical hard drive* for the operating system. Xpress Recovery2 can only back up/restore the first physical hard drive that has the operating system installed. · As Xpress Recovery2 will save the backup file at the end of the hard drive, make sure to leave enough unallocated space in advanced (10 GB or more is recommended; actual size requirements vary, depending on the amount of data). · It is recommended to back up your system soon after the operating system and drivers are installed. · The amount of data and hard drive access speed may affect the speed at which the data is backed up/restored. · It takes longer to back up a hard drive than to restore it. System Requirements: · At least 512 MB of system memory · VESA compatible graphics card · Windows ® XP with SP1 or later, Windows ® Vista · · Xpress Recovery and Xpress Recovery2 are different utilities. For example, a backup file created with Xpress Recovery cannot be restored using Xpress Recovery2.

USB hard drives are not supported. Hard drives in RAID/AHCI mode are not supported. Installation and Configuration Turn on your system to boot from the Windows Vista setup disk. A. Installing Windows Vista and Partitioning the Hard Drive Step 1: Click Drive options. Step 2: Click New. "*" Xpress Recovery2 checks the first physical hard drive in the following sequence: The first PATA IDE connector, the second PATA IDE connector, the first SATA connector, the second SATA connector and so forth. For example, when hard drives are attached to the first IDE and the first SATA connectors, the hard drive on the first IDE connector is the first physical drive. When hard drives are attached to the first and second SATA connectors, the hard drive on the first SATA connector is the first physical drive. - 55 - Unique Features Step 3: When partitioning your hard drive, make sure to leave unallocated space (10 GB or more is recommended; actual size requirements vary, depending on the amount of data) and begin the installation of the operating system.



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