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User manual ASUS H61M-K
User guide ASUS H61M-K
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H61M-K

ASUS

Motherboard



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Manual abstract:

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..... A-3 . □ Safety information Electrical safety ••••• To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.

When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the system. 32-bit operating system may only recognize less than 3GB. We recommend a maximum of 3GB system memory if you are using a Windows® 32-bit operating system. VGA Output 2 x PCI Express 2.0 x1 slots • □ PCIe 3.

0 speed is supported by Intel® 3rd generation Core™ processors. DVI-D with Max. Resolution: 1920x1200@60Hz Max. UMA Memory: 1024MB D-SUB with Max. Resolution: 2048x1536@75Hz Intel® H61 Express Chipset: - 4 x Serial ATA 3 Gb/s connectors Realtek® 8111F PCIe Gigabit LAN controller Realtek® ALC887 8-channel High Definition Audio CODEC • □ Use a chassis with HD audio module in the front panel to support an 8-channel audio output.

Intel® H61 Express Chipset: - □ x USB 2.0/1.1 ports (4 ports at the mid-board, 4 ports at the back 8 panel) Storage LAN Audio USB (continued on the next page) ix H61M-K specifications summary ASUS unique features ASUS Anti-Surge Protection ASUS MyLogo 2 ASUS Fan Xpert ASUS UEFI BIOS (EZ Mode) ASUS EZ-Flash 2 ASUS AI Charger ASUS AI Suite II ASUS Crash Free BIOS3 ASUS Network iControl* Rear panel ports ASUS Webstorage • □ The Network iControl feature does not support Windows® XP/Vista operating systems.



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1 x PS/2 keyboard port (purple) 1 x PS/2 mouse port (green) 1 x DVI-D 1 x D-Sub 4 x USB 2.0/1.1 ports 1 x LAN (RJ-45) port Internal connectors/ jumpers 3 x Audio jacks 2 x USB 2.0/1.1 connectors support additional 4 USB 2.0/1.1 ports 4 x SATA 3 Gb/s connectors 1 x 4-pin CPU fan connector 1 x 4-pin chassis fan connector 1 x System panel connector 1 x Speaker connector 1 x Front panel audio connector 1 x 24-pin ATX power connector 1 x Clear CMOS jumper 1 x 4-pin ATX 12V power connector (continued on the next page) □ H61M-K specifications summary BIOS features 64 Mb Flash ROM, UEFI BIOS, PnP, DMI v2.

0, WfM 2.0, ACPI v2.0a, SM BIOS v2.7, SLP 3.0, EUP-ready, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, F12 PrintScreen function, F3 Shortcut function, and ASUS DRAM SPD (Serial Presence Detect) memory information WfM 2.0, DMI v2.0, WOR by PME, PXE Drivers ASUS utilities Manageability Support DVD ASUS Update Form factor Anti-virus software (OEM version) ATX form factor: 8.9 in x 6.9 in (22.6 cm x 17.

5 cm) Specifications are subject to change without notice. xi Package contents Check your motherboard package for the following items. KBMS RT 8876 CPU_FAN DVI ATX12V DDR3 DIMM_A1 (64bit, 240-pin module) USB34 RTL 8111F CHA_FAN AUDIO H61M-K PCIEX16 SATA3G_3 SATA3G_1 SATA3G_4 SATA3G_2 Super I/O PCIEX1_1 BATTERY Intel® H61 ALC 887 PCIEX1_2 SB_PWR USB56 USBPW5-8 USB78 CLRTC SPEAKER AAFP 64Mb BIOS ASUS H61M-K motherboard EATXPWR LAN_USB12 DDR3 DIMM_B1 (64bit, 240-pin module) LGA1155 VGA USBPW1-4 2 x Serial ATA 3 Gb/s cables User Guide 1 x I/O Shield User Guide Support DVD •• If any of the above items is damaged or missing, contact your retailer. The illustrations above are for reference only. Actual product specifications may vary with different models.

xiii Product introduction 1.1 1.1.1 Special features Product highlights 1 LGA1155 socket for Intel® 3rd/2nd Generation Core™ i7, Core™ i5, Core™ i3, Pentium®, and Celeron® processors This motherboard supports the Intel® 3rd/2nd generation Core™ i7, Core™ i5, Core™ i3, Pentium®, and Celeron® processors in the LGA1155 package, with memory and PCI Express controllers integrated to support onboard graphics out with dedicated chipsets, 2-channel (2 DIMMs) DDR3 memory, and 16 PCI Express 3.0/2.

0 lanes. This provides great graphics performance. Intel® 3rd/2nd generation Core™ i7, Core™ i5, Core™ i3, Pentium®, and Celeron® processors are among the most powerful and energy efficient CPUs in the world. Intel® H61 Express Chipset The Intel® H61 Express Chipset is the latest single-chipset design to support the new 1155 socket Intel® 3rd/2nd Generation Core™ i7, Core™ i5, Core™ i3, Pentium®, and Celeron® processors. It provides improved performance by utilizing serial point-to-point links, which allows increased bandwidth and stability. Dual-Channel DDR3 1600 / 1333 / 1066 MHz support The motherboard supports DDR3 memory that features data transfer rates of 1600 / 1333 / 1066 MHz to meet the higher bandwidth requirements of the latest 3D graphics, multimedia, and Internet applications. The dual-channel DDR3 architecture enlarges the bandwidth of your system memory to boost system performance. PCI Express® 3.0 PCI Express® 3.0 (PCIe 3.

0) is the latest PCI Express bus standard with improved encoding schemes that provide twice the performance of the current PCIe 2.0. The total bandwidth for a x16 link reaches a maximum of 32Gb/s, double the 20 Gb/s of PCIe 2.0 (in x16 mode). As such, PCIe 3.0 provides users an unprecedented data speeds, combined with the convenience and seamless transition offered by complete backward compatibility with PCIe 1.0 and PCIe 2.0 devices. PCIe 3.0 will become a must-have feature for users who wish to improve and optimize graphic performance, as well as have the latest technology available to them.

* PCI 3.0 speed is supported by Intel® 3rd generation Core™ processors. Intel® Smart Connect Technology Your computer can receive fresh updates for selected applications, even when the system is in sleep mode. This means less time waiting for applications to update and sync with the cloud, leading to a more efficient computing experience. ASUS H61M-K 1-1 Intel® Rapid Start Technology Intel® Rapid Start Technology allows your system to receive updates for your web applications in real-time even when your system is in sleep mode, saving wait time and power usage.

8-channel high definition audio The onboard 8-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output and jack-detect feature that automatically detects and identifies what types of peripherals are plugged into the audio I/O jacks and notifies users of inappropriate connection, which means there will be no more confusion of Line-in, Line-out, and Mic jacks. * □ Use a chassis with HD audio module in the front panel to support an 8-channel audio output. Gigabit LAN solution The onboard LAN controller is a highly integrated Gb LAN controller. It is enhanced with an ACPI management function to provide efficient power management for advanced operating systems. 1.

1.2 ASUS Exclusive Features ASUS UEFI BIOS (EZ Mode) ASUS UEFI BIOS, a UEFI compliant architecture, offers the first mouse-controlled intuitive graphical BIOS interface that goes beyond the traditional keyboard-only BIOS controls, providing you with more flexibility, convenience, and easy to navigate EFI BIOS than the traditional BIOS versions. It offers you with dual selectable modes and native support for hard drives larger than 2.2 TB. ASUS UEFI BIOS includes the following new features: ••• F12 BIOS snapshot hotkey F3 Shortcut for most accessed information ASUS DRAM SPD (Serial Presence Detect) information detecting faulty DIMMs, and helping with difficult POST situations. Network iControl Network iControl is an intuitive one-step network control center that makes it easier for you to manage your bandwidth and allows you to set, monitor, and schedule the bandwidth priorities for your network programs. It allows you to automatically connect to a PPPoE network for a more convenient online experience. * □ The ASUS Network iControl feature does not support Windows® XP/Vista operating systems. Ai Charger Ai Charger is ASUS fast-charging software that supports iPod, iPhone, and iPad. * Check your USB mobile device if it fully supports the BC 1.

1 function. ** The actual charging speed may vary with your USB device's conditions. *** Ai Charger is only supported when you set the USB device wake-up jumpers to +5VSB. See section 1.7 Jumpers for details. 1-2 Chapter 1: Product introduction AI Suite II With its user-friendly interface, ASUS AI Suite II integrates several ASUS utilities and allows you to launch and operate these utilities simultaneously.



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It allows you to supervise fan speed control, and voltage and sensor readings. This all-in-one software offers diverse and ease to use functions, with no need to switch back and forth between different utilities. ASUS Anti-Surge Protection This special design protects expensive devices and the motherboard from damage caused by power surges from switching power supply unit (PSU). ASUS Fan Xpert ASUS Fan Xpert intelligently allows you to adjust the CPU fan and chassis fan speeds according to different ambient temperatures caused by different climate conditions in different geographic regions and your PC's loading.

The built-in variety of useful profiles offer flexible controls of fan speed to achieve a quiet and cool environment. ASUS MyLogo2™ Turn your favorite photos into 256-color boot logos to personalize your system. ASUS CrashFree BIOS 3 ASUS CrashFree BIOS 3 is an auto-recovery tool that allows you to restore a corrupted BIOS file using the bundled support DVD or a USB flash disk that contains the BIOS file. ASUS EZ Flash 2 ASUS EZ Flash 2 is a user-friendly utility that allows you to update the BIOS without using a bootable floppy disk or an OS-based utility. C.

P.R. (CPU Parameter Recall) The BIOS C.P.R.

feature automatically restores the CPU default settings when the system hangs due to overclocking failure. C.P.R. eliminates the need to open the system chassis and clear the RTC data. Simply shut down and reboot the system, and the BIOS automatically restores the CPU parameters to their default settings.

ErP ready The motherboard is European Union's Energy-related Products (ErP) ready, and ErP requires products to meet certain energy efficiency requirements with regard to energy consumptions. This is in line with ASUS vision of creating environment-friendly and energyefficient products through product design and innovation to reduce carbon footprint of the product and thus mitigate environmental impacts. ASUS H61M-K 1-3 1.2 Take note of the following precautions before you install motherboard components or change any motherboard settings.

- • Unplug the power cord from the wall socket before touching any component. Before handling components, use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, to avoid damaging them due to static electricity. Hold components by the edges to avoid touching the ICs on them. Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with the component. Before you install or remove any component, switch off the ATX power supply and detach its power cord. Failure to do so may cause severe damage to the motherboard, peripherals, or components. Before you proceed
- • Standby Power LED The motherboard comes with a standby power LED that lights up to indicate that the system is ON, in sleep mode, or in soft-off mode. This is a reminder that you should shut down the system and unplug the power cable before removing or plugging in any motherboard component. The illustration below shows the location of the onboard LED. SB_PWR H61M-K ON Standby Power OFF Powered Off H61M-K Onboard LED 1-4 Chapter 1: Product introduction 1.

3 1.3.1 Motherboard overview Placement direction When installing the motherboard, ensure that you place it into the chassis in the correct orientation. The edge with external ports goes to the rear part of the chassis as indicated in the image below. 1.

3.2 Place six screws into the holes indicated by circles to secure the motherboard to the chassis. DO NOT overtighten the screws! Doing so can damage the motherboard. Screw holes Place this side towards the rear of the chassis H61M-K ASUS H61M-K 1-5 1.3.

3 Motherboard layout 1 2 3 4 17.5cm(6.9in) 3 5 KBMS RT 8876 CPU_FAN DVI ATX12V DDR3 DIMM_A1 (64bit, 240-pin module) DDR3 DIMM_B1 (64bit, 240-pin module) LGA1155 VGA USB34 EATXPWR LAN_USB12 RTL 8111F 22.6cm(8.9in) USBPW1-4 CHA_FAN 2 AUDIO H61M-K PCIEX16 SATA3G_3 SATA3G_1 SATA3G_4 SATA3G_2 Super I/O PCIEX1_1 BATTERY Intel® H61 6 ALC 887 PCIEX1_2 SB_PWR AAFP USBPW5-8 USB56 USB78 CLRTC SPEAKER 64Mb BIOS 7 12 11 1 10 9 8 1-6 Chapter 1: Product introduction 1.3.4 Layout contents Page 1-27 1-26 1-28 1-7 1-12 1-27 1-29 1-28 1-29 1-5 1-25 Connectors/Jumpers/Slots/LED 1. USB device wake-up (3-pin PS2_USBPW1~4; USBPW5~8) 2. ATX power connectors (24-pin EATXPWR, 4-pin ATX12V) 4. Intel® LGA1155 CPU socket 5.

DDR3 DIMM slots 3. CPU and chassis fan connectors (4-pin CPU_FAN, 4-pin CHA_FAN) 6. Intel® H61 Serial ATA 3.0Gb/s connectors (7-pin SATA3G_1/2/3/4) 7. System panel connector (10-1 pin F_PANEL) 8. Speaker connector (4-pin SPEAKER) 9. Clear RTC RAM (3-pin CLRTC) 10. USB 2.0 connectors (10-1 pin USB56, USB78) 11. Standby power LED (SB_PWR) 12.

Front panel audio connector (10-1 pin AAFP) The motherboard comes with a surface mount LGA1155 socket designed for the Intel® 3rd / 2nd Generation Core™ i7, i5, i3, Pentium®, and Celeron® processors. 1.4 Central Processing Unit (CPU) H61M-K H61M-K CPU socket LGA1155 Unplug all power cables before installing the CPU. • Upon purchase of the motherboard, ensure that the PnP cap is on the socket and the socket contacts are not bent. Contact your retailer immediately if the PnP cap is missing, or if you see any damage to the PnP cap/socket contacts/motherboard components.

ASUS will shoulder the cost of repair only if the damage is shipment/ transit-related. Keep the cap after installing the motherboard. ASUS will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the LGA1155 socket. The product warranty does not cover damage to the socket contacts resulting from incorrect CPU installation/removal, or misplacement/loss/incorrect removal of the PnP cap. • • ASUS H61M-K 1-7 1.

4.1 CPU installation The LGA1156 CPU is not compatible with the LGA1155 socket. DO NOT install an LGA1156 CPU on the LGA1155 socket. 1 A A B 2 3 1-8 Chapter 1: Product introduction 4 C A 5 B ASUS H61M-K 1-9 1.4.2 CPU heatsink and fan assembly installation Apply the Thermal Interface Material to the CPU heatsink and CPU before you install the heatsink and fan if necessary. To install the CPU heatsink and fan assembly 1 B A 2 B A 3 4 1-10 Chapter 1: Product introduction To uninstall the CPU heatsink and fan assembly 1 2 A B A B ASUS H61M-K 1-11 1.5 1.5.1 System memory Overview This motherboard comes with two Double Data Rate 3 (DDR3) Dual Inline Memory Modules (DIMM) sockets.

A DDR3 module has the same physical dimensions as a DDR2 DIMM but is notched differently to prevent installation on a DDR2 DIMM socket. DDR3 modules are developed for better performance with less power consumption. The figure illustrates the location of the DDR3 DIMM sockets: DIMM_A1 DIMM_B1 Channel H61M-K Channel A Sockets Channel B DIMM_A1 DIMM_B1 H61M-K 240-pin DDR3 DIMM sockets 1-12 Chapter 1: Product introduction 1.



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3CCD-1509HNA1126L AM5D5808DEWSBG AM5D5808FEQSBG AM5D5808APQSBG AM5D5908CEHSBG 256MBDCJGELC0401136 9KF27D9KPT
 91F22D9KPT(ECC) J1108EDSE-DJ-F GL1L128M88BA12N H5TQ2G83BFRH9C H5TC1G83TFRH9A H5TQ2G83BFRH9C KFC8FMFXF-DXX-15A
 KFC8FNLXF-DXX-15A KFC8FNMXF-BXX-15A KKB8FNWBFNGX-26A KFC8FNLXF-DXX-15A KFC8FNMXF-BXX-15A H5TQ2G83AFRH9C IID77
 D9LGG J2108BCSE-DJ-F J1108BFBG-DJ-F D1288JEMFNGD9U D1288JPSFPGD9U J2108BCSE-DJ-F D2568JENCNGD9U H5TQ2G83AFR
 D2568JENCNGD9U Timing 9 9 9-9-24 9-9-9-24 9-9-9-24 9-9-9-24 9-9-9-24 9-9-9-24 9-9-9-24 9-9-9-24 9-9-9-24 9-9-9-24 Voltage 1.
 50V 1.60V 1.50V 1.50V 1.60V 1.

65V DIMM socket support(optional) 1DIMM 2DIMMs 1.35V (low voltage) 8-8-8-8-24 XMP 1.35V 7-7-7-21 9-9-9-24 9-9-9-24 7-7-7-24 9 9 7 9 1.5V 1.3V (low voltage) 1.
 5V 1.5V 1.35V (low voltage) 1.5V 1.5V 1.5V 1.5V 1.5V 1.65V XMP1.25V · 1.

5V 1.5V 1.5V 1-18 Chapter 1: Product introduction DDR3-1333 MHz capability Vendors Micron Micron Micron Micron NANYA PSC Samsung
 Samsung Samsung Samsung Super Talent Super Talent Super Talent Transcend Transcend Transcend KINGSTEK TEAM TEAM Part No.
 MT8JTF25664AZ-1G4D1 MT8JTF25664AZ-1G4M1 MT18JSF25672AZ-1G4F1 MT16JTF51264AZ-1G4D1 NT4GC64B8HG0NF-CG AL8F8G73F-DJ2
 M378B5773DH0-CH9 M378B5673FH0-CH9 M391B5673DZ1-CH9 M378B5273CH0-CH9 M378B1G73AH0-CH9 W1333UB2GS W1333UB4GS
 W1333UX6GM JM1333KLN-2G 8G DDR3 1333 DIMM CL9 8G DDR3 1333 DIMM CL9 KSTD3PC-10600 TED34G1333HC9BK TED38G1333HC9BK Size
 2GB 2GB 2GB 4GB 4GB 2GB 2GB 2GB 2GB 4GB 8GB 2GB 4GB 6GB (3x2GB) 2GB 8GB 8GB 2GB 4GB 8GB SS/DS Chip Brand SS SS DS DS DS DS SS
 DS DS DS DS DS DS SS DS DS DS DS DS Micron MICRON Micron Micron NANYA PSC Samsung Samsung Samsung Samsung Samsung
 Samsung Micron HYNIX Transcend MICRON Chip No. OJD12D9LGG IJM22 D9PFJ 91F22D9KPT(ECC) OLD22D9LGG NT5CB256M8GN-CG
 A3P1GF3FGF K4B2G0846D K4B1G0846F K4B1G0846D-HCH9(ECC) K4B2G0846C K4B4G0846A-HCH9 K4B1G0846F K4B2G0846C 0BF27D9KPT
 H5TQ2G83BZRH9C E207X8BO643Y N/A PE911-125E Timing 9 9 9-9-9-24 9-9-9-24 9-9-9-24 9-9-9-24 Voltage 1.5V DIMM socket support(optional) 1DIMM
 2DIMMs DDR3 1066 MHz capability Vendors Crucial Elpida Kingston Kingston Part No.
 CT25664BA1067.16FF EBJ21UE8EDF0-AE-F KVR1066D3N7/2G KVR1066D3N7/4G Size 2GB 2GB 2GB 4GB SS/DS Chip Brand DS DS DS DS Micron
 Elpida Elpida Hynix Chip NO. 9HF22D9KPT J1108EDSE-DJ-F J1108BFSE-DJ-F H5TQ2G83AFRTiming 7 7 Voltage 1.35V(low voltage) 1.

5V 1.5V DIMM socket support (Optional) 1 DIMM 2 DIMMs DIMM support: • 1 DIMM: □ supports one module inserted into either slot as single-
 channel memory S configuration. • 2 DIMMs: □ supports one pair of modules inserted into both the blue slots as one pair of S dual-channel memory
 configuration. Visit the ASUS website at www.asus.com.

com for the latest QVL. SS: Single-sided / DS: Double-sided ASUS H61M-K 1-19 1.5.3 Installing a DIMM 1 2 3 To remove a DIMM B A A 1-20 Chapter 1:
 Product introduction 1.6 In the future, you may need to install expansion cards.

The following sub-sections describe the slots and the expansion cards that they support. Unplug the power cord before adding or removing expansion cards.
 Failure to do so may cause you physical injury and damage motherboard components. Expansion slots 1.6.1 1. 2. 3. 4. 5.

6. To install an expansion card: Installing an expansion card Before installing the expansion card, read the documentation that came with it and make the
 necessary hardware settings for the card. Remove the system unit cover (if your motherboard is already installed in a chassis). Remove the bracket opposite
 the slot that you intend to use. Keep the screw for later use. Align the card connector with the slot and press firmly until the card is completely seated on the
 slot. Secure the card to the chassis with the screw you removed earlier. Replace the system cover. 1.6.

2 1. 2. 3. After installing the expansion card, configure it by adjusting the software settings. Turn on the system and change the necessary BIOS settings, if
 any.

See Chapter 2 for information on BIOS setup. Assign an IRQ to the card. Install the software drivers for the expansion card. When using PCI cards on shared
 slots, ensure that the drivers support “Share IRQ” or that the cards do not need IRQ assignments. Otherwise, conflicts will arise between the two PCI groups,
 making the system unstable and the card inoperable.

Configuring an expansion card 1.6.3 This motherboard supports PCI Express 2.0 x1 network cards, SCSI cards, and other cards that comply with the PCI
 Express specifications. PCI Express 2.0 x1 slot ASUS H61M-K 1-21 1.6.4 This motherboard has a PCI Express 3.0/2.0 x16 slot that supports PCI Express 3.

0/2.0 x16 graphic cards complying with the PCI Express specifications. PCIe 3.0 speed is supported by Intel® 3rd generation Core™ processors. PCI
 Express 3.0/2.0 x16 slot IRQ assignments for this motherboard A PCIe16 PCIe1_1 PCIe1_2 Realtek 8111F controller USB2.0 controller 1 USB2.0
 controller 2 HD audio SATA controller 1 SATA controller 2 shared shared ----- B --- shared ----- C ----- D - shared ----- shared
 shared - E ----- F ----- G ----- shared --- H ---- shared shared --- I-22 Chapter 1: Product introduction 1.7 1.

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by
 erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which include system setup information such as system
 passwords. Clear RTC RAM (3-pin CLRTC) Jumpers CLRTC H61M-K 1 2 2 3 Normal (Default) Clear RTC H61M-K Clear RTC RAM To erase the RTC
 RAM: 1.



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3. 4. Turn OFF the computer and unplug the power cord. Move the jumper cap from pins 1-2 (default) to pins 2-3. Keep the cap on pins 2-3 for about 5~10 seconds, then move the cap back to pins 1-2.

Plug the power cord and turn ON the computer. Hold down the key during the boot process and enter BIOS setup to reenter data. Except when clearing the RTC RAM, never remove the cap on CLRTC jumper default position. Removing the cap will cause system boot failure! • If the steps above do not help, remove the onboard battery and move the jumper again to clear the CMOS RTC RAM data. After clearing the CMOS, reinstall the battery. You do not need to clear the RTC when the system hangs due to overclocking. For system failure due to overclocking, use the CPU Parameter Recall (C.P.R) feature. Shut down and reboot the system so the BIOS can automatically reset parameter settings to default values.

• ASUS H61M-K 1-23 1.8 1.8.1 1 Connectors Rear panel ports 2 3 4 10 1. 2. 9 8 7 6 5 PS/2 Mouse port. This port connects to a PS/2 mouse. LAN (RJ-45) port. This port allows Gigabit connection to a Local Area Network (LAN) through a network hub. Refer to the table below for the LAN port LED indications. LAN port LED indications Activity/Link LED Status Description OFF No link ORANGE Linked BLINKING Data activity Speed LED Status Description OFF 10Mbps connection ORANGE 100Mbps connection GREEN 1Gbps connection Activity Link LED Speed LED LAN port 3. 4. 5. Line In port (light blue). This port connects to the tape, CD, DVD player, or other audio sources.

Line Out port (lime). This port connects to a headphone or a speaker. In the 4, 6, and 8-channel configurations, the function of this port becomes Front Speaker Out. Microphone port (pink). This port connects to a microphone.

Refer to the audio configuration table below for the function of the audio ports in 2, 4, 6, or 8-channel configuration. Audio 2, 4, 6, or 8-channel configuration Port Light Blue (Rear panel) Lime (Rear panel) Pink (Rear panel) Headset 2-channel Line Out Mic In – Line In 4-channel Rear Speaker Out Mic In – 6-channel Rear Speaker Out Bass/Center – 8-channel Rear Speaker Out Bass/Center Front Speaker Out Front Speaker Out Front Speaker Out Side Speaker Out Lime (Front panel) 1-24 Chapter 1: Product introduction To configure an 8-channel audio output: Use a chassis with HD audio module in the front panel to support an 8-channel audio output. 6. 7. 8. 9. USB 2.0 ports 1 and 2. These two 4-pin Universal Serial Bus (USB) ports are for USB 2.0/1.

1 devices. USB 2.0 ports 3 and 4. These two 4-pin Universal Serial Bus (USB) ports are for USB 2.0/1.1 devices. Video Graphics Adapter (VGA) port. This 15-pin port is for a VGA monitor or other VGA-compatible devices. DVI-D port. This port is for any DVI-D compatible device.

DVI-D can't be converted to output RGB signal to CRT and isn't compatible with DVI-I 10. PS/2 Keyboard port (purple). This port is for a PS/2 keyboard. 1.8.

2 1. Internal connectors This connector is for a chassis-mounted front panel audio I/O module that supports either HD Audio or legacy AC '97 audio standard. Connect one end of the front panel audio I/O module cable to this connector. AGND NC SENSE1_RETUR SENSE2_RETUR Front panel audio connector (10-1 pin AAFP) AGND NC NC PIN 1 AAFP PIN 1 H61M-K HD-audio-compliant pin definition PORT1 L PORT1 R PORT2 R SENSE_SEND PORT2 L Legacy AC'97 compliant definition H61M-K Front panel audio connector • • We recommend that you connect a high-definition front panel audio module to this connector to avail of the motherboard's high-definition audio capability. If you want to connect a high-definition front panel audio module to this connector, set the Front Panel Type item in the BIOS setup to [HD].

If you want to connect an AC'97 front panel audio module to this connector, set the item to [AC97]. By default, this connector is set to [HD]. See section 2.5.6

Onboard Devices Configuration for details. ASUS H61M-K MIC2 MICPWR Line out_R NC Line out_L NC 1-25 2. These connectors are for ATX power supply plugs. The power supply plugs are designed to fit these connectors in only one orientation. Find the proper orientation and push down firmly until the connectors completely fit. ATX12V +12V DC +12V DC ATX power connectors (24-pin EATXPWR, 4-pin ATX12V) EATXPWR +3 Volts +12 Volts +12 Volts +5V Standby Power OK GND +5 Volts GND +5 Volts GND +3 Volts +3 Volts PIN 1 PIN 1 H61M-K GND +5 Volts +5 Volts +5 Volts -5 Volts GND GND PSON# GND -12 Volts +3 Volts H61M-K ATX power connectors • • • For a fully configured system, we recommend that you use a power supply unit (PSU) that complies with ATX 12 V Specification 2.

0 (or later version) and provides a minimum power of 350 W. DO NOT forget to connect the 4-pin ATX +12V power plug. Otherwise, the system will not boot up. We recommend that you use a PSU with higher power output when configuring a system with more power-consuming devices. The system may become unstable or may not boot up if the power is inadequate. • If you are uncertain about the minimum power supply requirement for your system, refer to the Recommended Power Supply Wattage Calculator at <http://support.asus.com/PowerSupplyCalculator/PSCalculator.aspx?SLanguage=en-us> for details. GND GND 1-26 Chapter 1: Product introduction 3.

These connectors connect to Serial ATA 3.0 Gb/s hard disk drives and optical drives via Serial ATA 3.0 Gb/s signal cables. SATA3G_2 GND RSATA_RXP2 RSATA_RXN2 GND RSATA_TXN2 RSATA_TXP2 GND Intel® H61 Serial ATA 3.0Gb/s connectors (7-pin SATA3G_1~4) SATA3G_1 GND RSATA_TXP1 RSATA_TXN1 GND RSATA_RXN1 RSATA_RXP1 GND SATA3G_4 H61M-K SATA3G_3 GND RSATA_TXP3 RSATA_TXN3 GND RSATA_RXN3 RSATA_RXP3 GND GND RSATA_RXP4 RSATA_RXN4 GND RSATA_TXN4 RSATA_TXP4 GND H61M-K Intel® SATA 3.

0Gb/s connectors • • • You must install Windows® XP Service Pack 3 or later version before using Serial ATA hard disk drives. Due to H61 Chipset limitation, AHCI Mode only works on Windows® Vista / Windows® 7. Please use IDE Mode on Windows® XP. To configure the SATA type in BIOS, click Advanced Mode > Advanced tab > SATA Configuration > SATA Mode Selection. See section 2.

5.3 SATA Configuration for details. When using hot-plug and NCQ on Windows® Vista / Windows® 7, set the SATA Mode Selection item in the BIOS to [AHCI]. See section 2.5.3 SATA Configuration for details. • 4. Set this jumper to +5V to wake up the computer from S1 sleep mode (CPU stopped, DRAM refreshed, system running in low power mode) using the connected USB devices. Set to +5VSB to wake up from S3 and S4 sleep modes (no power to CPU, DRAM in slow refresh, power supply in reduced power mode). PS2_USBPW1-4 1 2 2 3 USB device wake-up (3-pin PS2_USBPW1~4; USBPW5~8) +5V (Default) +5VSB USBPW5-8 H61M-K 1 2 2 3 +5V (Default) +5VSB H61M-K USB Device Wake Up • • The USB device wake-up feature requires a power supply that can provide 500mA on the +5VSB lead for each USB port; otherwise, the system would not power up.



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The total current consumed must NOT exceed the power supply capability (+5VSB) whether under normal condition or in sleep mode. ASUS H61M-K 1-27 5.

Connect the fan cables to the fan connectors on the motherboard, ensuring that the black wire of each cable matches the ground pin of the connector. CPU_FAN CPU and chassis fan connectors (4-pin CPU_FAN, 4-pin CHA_FAN) CHA_FAN H61M-K CPU fan connector Do not forget to connect the fan cables to the fan connectors. Insufficient air flow inside the system may damage the motherboard components. These are not jumpers! Do not place jumper caps on the fan connectors! ••The two fan connectors support fans of maximum 2A (24 W) fan power. Both the 4-pin CPU fan and 4-pin chassis fan are supported by the ASUS Fan Xpert feature. 6. These connectors are for USB 2.0 ports.

Connect the USB module cable to any of these connectors, then install the module to a slot opening at the back of the system chassis. These USB connectors comply with USB 2.0 specification that supports up to 480 Mbps connection speed. USB connectors (10-1 pin USB56, USB78) USB56 USB+5V USB_P6USB_P6+ GND NC CHA FAN PWM CHA FAN IN CHA FAN PWR GND H61M-K CPU FAN PWM CPU FAN IN CPU FAN PWR GND USB78 USB+5V USB_P8USB_P8+ GND NC USB+5V USB_P7USB_P7+ GND PIN 1 H61M-K H61M-K USB2.0 connectors Never connect a 1394 cable to the USB connectors.

Doing so will damage the motherboard! The USB module cable is purchased separately. USB+5V USB_P5USB_P5+ GND PIN 1 1-28 Chapter 1: Product introduction 7. This connector supports several chassis-mounted functions. F_PANEL PWR LED PWR BTN System panel connector (10-1 pin F_PANEL) PIN 1 H61M-K +HD_LED H61M-K System panel connector •This 2-pin connector is for the system power LED. Connect the chassis power LED cable to this connector.

The system power LED lights up when you turn on the system power, and blinks when the system is in sleep mode. This 2-pin connector is for the HDD Activity LED. Connect the HDD Activity LED cable to this connector. The IDE LED lights up or flashes when data is read from or written to the HDD. This 2-pin connector is for the system power button. This 2-pin connector is for the chassis-mounted reset button for system reboot without turning off the system power. The 4-pin connector is for the chassis-mounted system warning speaker. The speaker allows you to hear system beeps and warnings. Speaker connector (4-pin SPEAKER) Reset button (2-pin RESET) Power/Soft-off button (2-pin PWR_BTN) Hard disk drive activity LED (2-pin +HDD_LED-) System power LED (2-pin +PWR_LED-) •••8. SPEAKER +5V GND GND Speaker Out PIN 1 H61M-K H61M-K Speaker Out Connector ASUS H61M-K HD_LED+ HD_LEDGround HWRST# (NC) RESET PLED+ PLEDPWR GND 1-29 1.

9 1.9.1 Software support Installing an operating system This motherboard supports Windows® XP / Windows® Vista / Windows® 7 / Windows® 8 Operating Systems (OS). Always install the latest OS version and corresponding updates to maximize the features of your hardware. ••Motherboard settings and hardware options vary. Refer to your OS documentation for detailed information. @@@@The Specials menu appears. Click the Utilities tab, then click AI Suite II. @@The AI Suite II Quick Bar appears. @@The ASUS Update main screen appears. @@@@Enter the Advanced Mode of the BIOS setup program. @@Press <Tab> to switch to the Drive field. @@Press <Tab> to switch to the Folder Info field. @@@@The BIOS file in the support DVD may not be the latest version. @@@@The utility automatically checks the devices for the BIOS file.

When found, the utility reads the BIOS file and enters ASUS EZ Flash 2 utility automatically. The system requires you to enter BIOS Setup to recover BIOS setting. To ensure system compatibility and stability, we recommend that you press <F5> to load default BIOS values. DO NOT shut down or reset the system while updating the BIOS! Doing so can cause system boot failure! ASUS H61M-K 2-3 2.1.

4 ASUS BIOS Updater allows you to update BIOS in DOS environment. This utility also allows you to copy the current BIOS file that you can use as a backup when the BIOS fails or gets corrupted during the updating process. The succeeding utility screens are for reference only. The actual utility screen displays may not be same as shown. ASUS BIOS Updater Before updating BIOS 1. 2. Prepare the motherboard support DVD and a USB flash drive in FAT32/16 format and single partition. Download the latest BIOS file and BIOS Updater from the ASUS website at <http://support.asus.com> and save them on the USB flash drive.

NTFS is not supported under DOS environment. Do not save the BIOS file and BIOS Updater to a hard disk drive or USB flash drive in NTFS format. 3. 1. 2. Turn off the computer and disconnect all SATA hard disk drives (optional). Insert the USB flash drive with the latest BIOS file and BIOS Updater to the USB port. Boot your computer. When the ASUS Logo appears, press <F8> to show the BIOS Boot Device Select Menu. Insert the support DVD into the optical drive and select the optical drive as the boot device.

Booting the system in DOS environment 3. 4. When the Make Disk menu appears, select the FreeDOS command prompt item by pressing the item number. At the FreeDOS prompt, type d: and press <Enter> to switch the disk from Drive C (optical drive) to Drive D (USB flash drive). 2-4 Chapter 2: Getting started Updating the BIOS file 1.

To update the BIOS file using BIOS Updater: At the FreeDOS prompt, type bupdater /pc /g and press <Enter>. 2. The BIOS Updater screen appears as below. ASUSTek BIOS Updater for DOS V1.30 Current ROM BOARD: H61M-K VER: 0303 DATE: 12/26/2012 H61M-K. CAP Update ROM BOARD: Unknown VER: Unknown DATE: Unknown 8390656 2012-12-26 17:30:48 PATH: A:\A: Note [Enter] Select or Load [Up/Down/Home/End] Move [Tab] Switch [B] Backup [V] Drive Info [Esc] Exit 3. Press <Tab> to switch between screen fields and use the <Up/Down/Home/End> keys to select the BIOS file and press <Enter>. BIOS Updater checks the selected BIOS file and prompts you to confirm BIOS update. 4. Select Yes and press <Enter>. When BIOS update is done, press <ESC> to exit BIOS Updater. Restart your computer. DO NOT shut down or reset the system while updating the BIOS to prevent system boot failure! ••For BIOS Updater version 1.30 or later, the utility automatically exits to the DOS prompt after updating BIOS. Ensure to load the BIOS default settings to ensure system compatibility and stability.

Select the Load Optimized Defaults item under the Exit menu. Refer to section 2.9 Exit menu for details. Ensure to connect all SATA hard disk drives after updating the BIOS file if you have disconnected them. •ASUS H61M-K 2-5 2.2 Use the BIOS Setup program to update the BIOS or configure its parameters. The BIOS screens include navigation keys and brief online help to guide you in using the BIOS Setup program.



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BIOS setup program Entering BIOS Setup at startup To enter BIOS Setup at startup: • Press <Delete> during the Power-On Self Test (POST). If you do not press <Delete>, POST continues with its routines. Entering BIOS Setup after POST To enter BIOS Setup after POST: ••• Press <Ctrl>+<Alt>+ simultaneously.

Press the reset button on the system chassis. Press the power button to turn the system off then back on. Do this option only if you failed to enter BIOS Setup using the first two options. Using the power button, reset button, or the <Ctrl>+<Alt>+ keys to force reset from a running operating system can cause damage to your data or system. We recommend to always shut down the system properly from the operating system.

•••• The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen. Visit the ASUS website at www.asus.com to download the latest BIOS file for this motherboard. Ensure that a USB mouse is connected to your motherboard if you want to use the mouse to control the BIOS setup program.

If the system becomes unstable after changing any BIOS setting, load the default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu. See section 2.9 Exit Menu for details. If the system fails to boot after changing any BIOS setting, try to clear the CMOS and reset the motherboard to the default value. See section 1.7 Jumpers for information on how to erase the RTC RAM. • BIOS menu screen The BIOS setup program can be used under two modes: EZ Mode and Advanced Mode. You can change modes from the Exit menu or from the Exit/Advanced Mode button in the EZ Mode/Advanced Mode screen. 2-6 Chapter 2: Getting started EZ Mode By default, the EZ Mode screen appears when you enter the BIOS setup program.

The EZ Mode provides you an overview of the basic system information, and allows you to select the display language, system performance mode and boot device priority. To access the Advanced Mode, click Exit/Advanced Mode, then select Advanced Mode or press F7 hot key for the advanced BIOS settings. The default screen for entering the BIOS setup program can be changed. Refer to the Setup Mode item in section 2.7 Boot menu for details. Selects the display language of the BIOS setup program Displays the CPU/motherboard temperature, CPU/5V/3.3V/12V voltage output, CPU/chassis fan speed Exits the BIOS setup program without saving the changes, saves the changes and resets the system, or enters the Advanced Mode Selects the boot device priority Displays the Advanced mode menus Silent mode Standard mode Loads optimized default Turbo mode Selects the Advanced mode functions Displays the system properties of the selected mode on the right hand side Selects the boot device priority •• The boot device options vary depending on the devices you installed to the system. The Boot Menu(F8) button is available only when the boot device is installed to the system. ASUS H61M-K 2-7 Advanced Mode The Advanced Mode provides advanced options for experienced end-users to configure the BIOS settings. The figure below shows an example of the Advanced Mode.

Refer to the following sections for the detailed configurations. To access the EZ Mode, click Exit, then select ASUS EZ Mode. Back button Menu items Menu bar Configuration fields General help Submenu item Pop-up window Scroll bar Navigation keys Menu bar The menu bar on top of the screen has the following main items: Main Ai Tweaker Advanced Monitor Boot Tool Exit For changing the basic system configuration For changing the overclocking settings For changing the advanced system settings For displaying the system temperature, power status, and changing the fan settings For changing the system boot configuration For configuring options for special functions For selecting the exit options and loading default settings 2-8 Chapter 2: Getting started Menu items The highlighted item on the menu bar displays the specific items for that menu. For example, selecting Main shows the Main menu items.

The other items (Ai Tweaker, Advanced, Monitor, Boot, Tool, and Exit) on the menu bar have their respective menu items.

Back button This button appears when entering a submenu. Press <Esc> or use the USB mouse to click this button to return to the previous menu screen. Submenu items A greater than sign (>) before each item on any menu screen means that the item has a submenu. To display the submenu, select the item and press <Enter>. Pop-up window Select a menu item and press <Enter> to display a pop-up window with the configuration options for that item. Scroll bar A scroll bar appears on the right side of a menu screen when there are items that do not fit on the screen. Press the Up/Down arrow keys or <Page Up> / <Page Down> keys to display the other items on the screen. Navigation keys At the bottom right corner of the menu screen are the navigation keys for the BIOS setup program. Use the navigation keys to select items in the menu and change the settings. General help At the top right corner of the menu screen is a brief description of the selected item. Configuration fields These fields show the values for the menu items. If an item is user-configurable, you can change the value of the field opposite the item. You cannot select an item that is not user-configurable. A configurable field is highlighted when selected. To change the value of a field, select it and press <Enter> to display a list of options.

ASUS H61M-K 2-9 2.3 The Main menu screen appears when you enter the Advanced Mode of the BIOS Setup program. The Main menu provides you an overview of the basic system information, and allows you to set the system date, time, language, and security settings. Main menu 2.3.1 2.3.2 2.3.3 2.3.4 Allows you to choose the BIOS language version from the options. Configuration options: [English] [Français] [Español] [Deutsch] [Русский] Allows you to set the system date. Allows you to set the system time. System Language [English] System Date [Day xx/xx/xxxx] System Time [xx:xx:xx] Security • The Security menu items allow you to change the system security settings.

If you have forgotten your BIOS password, erase the CMOS Real Time Clock (RTC) RAM to clear the BIOS password. See section 1.7 Jumpers for information on how to erase the RTC RAM. The Administrator or User Password items on top of the screen show the default Not Installed. After you set a password, these items show Installed.

•2-10 Chapter 2: Getting started Administrator Password If you have set an administrator password, we recommend that you enter the administrator password for accessing the system. Otherwise, you might be able to see or change only selected fields in the BIOS setup program. To set an administrator password: 1.



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