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You can read the recommendations in the user guide, the technical guide or the installation guide for ASROCK 775I65G R3.0. You'll find the answers to all your questions on the ASROCK 775I65G R3.0 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ASROCK 775I65G R3.0
User guide ASROCK 775I65G R3.0
Operating instructions ASROCK 775I65G R3.0
Instructions for use ASROCK 775I65G R3.0
Instruction manual ASROCK 775I65G R3.0



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Manual abstract:

In no event shall ASRock, its directors, officers, employees, or agents be liable for any indirect, special, incidental, or consequential damages (including damages for loss of profits, loss of business, loss of data, interruption of business and the like), even if ASRock has been advised of the possibility of such damages arising from any defect or error in the manual or product. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CALIFORNIA, USA ONLY The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance. "Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate"

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com 2 Contents 1 Introduction

.....
.....

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

. ... 5 1.1 1.2 1.3 1.4 Package Contents..

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

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

.. 5 Specifications ...

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

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

. 6 Motherboard Layout

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

.....
.....

... 10 I/O Panel ..

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

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

11 12 12 13 15 16 17 18 19 23 24 24 25 25 26 26 27 27 30 32 33 35 36 36 38 39 40 40 41 41 42 2 Installation

.....
.....

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

.. 2.9 Serial ATA (SATA) Hard Disks Installation

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

.. 2.10 Driver Installation Guide

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

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

..... 2.

11 Untied Overclocking Technology

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

... 3.1 Introduction .

.....
.....

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

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

..... 3.1.

1 BIOS Menu Bar

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

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

..... 3.1.2 Navigation Keys .

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

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

..... 3.2 Main Screen

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

.....
.....

.....
.....

..... 3.

3 Advanced Screen

.....
.....

.....

.....

.....

.....

.....

.....

. 3.3.1 CPU Configuration ..

.....

.....

.....

.....

.....

.....

. 3.3.2 Chipset Configuration ..

.....

.....

.....

.....

.....

.....

. 3.3.3 ACPI Configuration

.....

.....

.....

.....

.....

.....

..... 3.3.4 IDE Configuration ...

.....

.....

.....

.....

.....

.....

.....

. 3.3.5 PCIPnP Configuration

.....

.....

.....

.....

.....

3.3.6 Floppy Configuration ...

.....

.....

.....

.....

.....

.....

. 3.3.7 Super IO Configuration

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

.....
.....
..... 3.

3.8 USB Configuration

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

.....
..... 3.

4 Hardware Health Event Monitoring Screen

.....

.. 3.5 Boot Screen ..

.....
.....

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

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

..... 3.5.1 Boot Settings Configuration ..

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

..... 3.5.2 Boot Device Priority ..

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

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

..... 3.

6 Security Screen

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

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

..... 3.7 Exit Screen ..

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

.....

.....
.....
.....
4.2.4 Contact Information ...
.....
.....
.....
.....

.... 43 43 43 43 43 4 Chapter 1 Introduction Thank you for purchasing ASRock 775i65G motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance. In this manual, chapter 1 and 2 contain introduction of the motherboard and step-by-step guide to the hardware installation. Chapter 3 and 4 contain the configuration guide to BIOS setup and information of the Support CD. Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRock website without further notice.

You may find the latest VGA cards and CPU support lists on ASRock website as well. ASRock website <http://www.asrock.com> If you require technical support related to this motherboard, please visit our website for specific information about the model you are using. www.asrock.com/support/index.asp

Package Contents ASRock 775i65G Motherboard (Micro ATX Form Factor: 9.6-in x 8.0-in, 24.4 cm x 20.3 cm)

ASRock 775i65G Quick Installation Guide ASRock 775i65G Support CD One 80-conductor Ultra ATA 66/100 IDE Ribbon Cable One Serial ATA (SATA) Data Cable (Optional) One I/O Panel Shield 5 1.2 Specifications - Micro ATX Form Factor: 9.6-in x 8.0-in, 24.4 cm x 20.3 cm - LGA 775 for Intel® Dual-Core Core™2 Extreme / Core™2 Duo / Pentium® D / Pentium® 4 / Celeron® D - FSB 1066 MHz for external graphics (see CAUTION 1) - FSB 800/533 MHz for internal graphics - Supports Hyper-Threading Technology (see CAUTION 2) - Supports Unified Overclocking Technology (see CAUTION 3) - Supports EM64T CPU - Northbridge: Intel® 865G - Southbridge: Intel® ICH5 - Dual Channel DDR Memory Technology (see CAUTION 4) - 2 x DDR DIMM slots - Support DDR400/333/266 (see CAUTION 5) - Max. capacity: 2GB - 3 x PCI slots - 1 x AGP slot for 1.5V 8X/4X AGP card (see CAUTION 6) - Integrated Intel® Extreme Graphics 2 - DirectX 8.

0 - Max. shared memory 96MB - Supports D-Sub with max. resolution up to 2048x1536 @ 75Hz - 5.1 CH Audio (C-Media 9761A Audio Codec) - Realtek PCI LAN 8101L - Speed: 10/100 Ethernet - Supports Wake-On-LAN - Supports PXE I/O Panel - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Serial Port: COM1 - 1 x VGA Port - 1 x Parallel Port (ECP/EPP Support) - 6 x Ready-to-Use USB 2.0 Ports - 1 x RJ-45 LAN Port with LED (SPEED LED) - Audio Jack: Line In / Line Out / Microphone Platform CPU Chipset Memory Expansion Slot Graphics Audio LAN Rear Panel I/O 6 Connector BIOS Feature Support CD Unique Feature Hardware Monitor OS Certifications - 2 x SATA 1.5Gb/s connectors (No Support for "RAID" and "Hot Plug" functions) - 2 x ATA100 IDE connectors (support 4 x IDE devices) - 1 x Floppy connector - 1 x IR header - 1 x Power LED header - 1 x CPU Fan connector (4-pin) - 1 x Chassis Fan connector (3-pin) - 20 pin ATX power connector - 4 pin 12V power connector - CD in header - AUX in header - Front panel audio connector - 2 x USB 2.0 headers (support 4 USB 2.0 ports; 2 of them are shared with USB45) (see CAUTION 7) - 4Mb AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.

1 Support - Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite OEM - ASRock APP Charger (see CAUTION 8) - Hybrid Booster: - CPU Frequency Stepless Control (see CAUTION 9) - ASRock U-COP (see CAUTION 10) - Boot Failure Guard (B.F.G.) - CPU Temperature Sensing - Chassis Temperature Sensing - CPU Fan Tachometer - Chassis Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.

3V, Vcore - Microsoft® Windows® 98SE/ME/2000/XP compliant - FCC, CE, WHQL * For detailed product information, please visit our website: <http://www.asrock.com> 7 WARNING Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Unified Overclocking Technology, or using the thirdparty overclocking tools. Overclocking may affect your system stability, or even cause damage to the components and devices of your system. It should be done at your own risk and expense.

We are not responsible for possible damage caused by overclocking. CAUTION! 1. FSB1066-CPU is supported only when you install AGP VGA card into AGP slot. Besides, if you use a FSB1066-CPU on this motherboard, please adopt a DDR400 CL2.



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5 memory module. About the setting of "Hyper Threading Technology", please check page 29. This motherboard supports Untied Overclocking Technology. Please read "Untied Overclocking Technology" on page 24 for details. This motherboard supports Dual Channel Memory Technology. Before you implement Dual Channel Memory Technology, make sure to read the installation guide of memory modules on page 16 for proper installation.

Please check the table below for the memory support frequency and its corresponding CPU FSB frequency. CPU FSB Frequency Memory Support Frequency
800 533 DDR266, DDR320*, DDR400 DDR266, DDR333 2. 3. 4. 5. * When you use an FSB800-CPU on this motherboard, it will run at 6. 7. DDR320 if you adopt a DDR333 memory module. Do NOT use a 3.3V AGP card on the AGP slot of this motherboard! It may cause permanent damage! Power Management for USB 2.

0 works fine under Microsoft® Windows® XP SP1 or SP2 / 2000 SP4. It may not work properly under Microsoft® Windows® 98/ ME. If you desire a faster, less restricted way of charging your Apple devices, such as iPhone/iPod/iPad Touch, ASRock has prepared a wonderful solution for you - ASRock APP Charger. Simply installing the APP Charger driver, it makes your iPhone charged much quickly from your computer and up to 40% faster than before. ASRock APP Charger allows you to quickly charge many Apple devices simultaneously and even supports continuous charging when your PC enters into Standby mode (S1), hibernation mode (S4) or power off (S5).

With APP Charger driver installed, you can easily enjoy the marvelous charging experience than ever. ASRock website:
<http://www.asrock.com/Feature/AppCharger/index.asp> 8.

8 9. Although this motherboard offers stepless control, it is not recommended to perform over-clocking. Frequencies other than the recommended CPU bus frequencies may cause the instability of the system or damage the CPU. 10. While CPU overheat is detected, the system will automatically shutdown. Before you resume the system, please check if the CPU fan on the motherboard functions properly and unplug the power cord, then plug it back again. To improve heat dissipation, remember to spray thermal grease between the CPU and the heatsink when you install the PC system. 9 1.3 Motherboard Layout 1 20.3cm (8).

0 in) PS2 KeyboOpen the socket: Step 1-1. Disengaging the lever by depressing Lift Lever Up to 90° down and out on the Socket Marked Corner hook to clear retention tab. Step 1-2. Rotate the load lever to fully open position at approximately 135 degrees. Step 1-3. Rotate the load plate to fully open position at approximately 100 degrees. Step 2. Insert the 775-LAND CPU: Step 2-1. Hold the CPU by the edges where are marked with black lines. black line black line Step 2-2.

Orient the CPU with IHS (Integrated Heat Sink) up. Locate Pin1 and the two orientation key notches. Pin1 orientation key notch orientation key notch Pin1 alignment key alignment key 775-Pin Socket 775-LAND CPU 13 For proper inserting, please ensure to match the two orientation key notches of the CPU with the two alignment keys of the socket. Step 2-3. Carefully place the CPU into the socket by using a purely vertical motion.

Step 2-4. Verify that the CPU is within the socket and properly mated to the orient keys. Step 3. Remove PnP Cap (Pick and Place Cap): Use your left hand index finger and thumb to support the load plate edge, engage PnP cap with right hand thumb and peel the cap from the socket while pressing on center of PnP cap to assist in removal. 1.

It is recommended to use the cap tab to handle and avoid kicking off the PnP cap. 2. This cap must be placed if returning the motherboard for after service. Step 4. Close the socket: Step 4-1. Rotate the load plate onto the IHS. Step 4-2. While pressing down lightly on load plate, engage the load lever. Step 4-3. Secure load lever with load plate tab under retention tab of load lever.

14 2.4 Installation of CPU Fan and Heatsink This motherboard is equipped with 775-Pin socket that supports Intel 775-LAND CPU. Please adopt the type of heatsink and cooling fan compliant with Intel 775-LAND CPU to dissipate heat. Before you installed the heatsink, you need to spray thermal interface material between the CPU and the heatsink to improve heat dissipation. Ensure that the CPU and the heatsink are securely fastened and in good contact with each other. Then connect the CPU fan to the CPU_FAN connector (CPU_FAN1, see page 10, No. 4). For proper installation, please kindly refer to the instruction manuals of your CPU fan and heatsink. Below is an example to illustrate the installation of the heatsink for 775-LAND CPU. Step 1.

Apply thermal interface material onto center of IHS on the socket surface. Step 2. Step 3. Step 4. Place the heatsink onto the socket.

Ensure fan cables are oriented on side closest to the CPU fan connector on the motherboard (CPU_FAN1, see page 10, No. 4). Align fasteners with the motherboard throughholes. Rotate the fastener clockwise, then press down on fastener caps with thumb to install and lock. Repeat with remaining fasteners. If you press down the fasteners without rotating them clockwise, the heatsink cannot be secured on the motherboard. Step 5. Step 6. Connect fan header with the CPU fan connector on the motherboard. Secure excess cable with tie-wrap to ensure cable does not interfere with fan operation or contact other components. 15 2.5 Installation of Memory Modules (DIMM) This motherboard provides two 184-pin DDR (Double Data Rate) DIMM slots, and supports Dual Channel Memory Technology. For dual channel configuration, you always need to install two identical (the same brand, speed, size and chip-type) memory modules in the DDR DIMM slots to activate Dual Channel Memory Technology. Otherwise, it will operate at single channel mode. If you install only one memory module or two non-identical memory modules, it is unable to activate the Dual Channel Memory Technology.

Installing a DIMM Please make sure to disconnect power supply before adding or removing DIMMs or the system components. Step 1. Step 2. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot. notch break notch break The DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot at incorrect orientation. Step 3. Firmly insert the DIMM into the slot until the retaining clips at both ends fully snap back in place and the DIMM is properly seated. 16 2.

6 Expansion Slots (PCI and AGPSlots) There are 3 PCI slots and 1 AGP slot on this motherboard. PCI slots: The PCI slots are used to install expansion cards that have the 32-bit PCI interface. AGP slot: The AGP slot is used to install a graphics card. The ASRock AGP slot has a special design of clasp that can securely fasten the inserted graphics card. Do NOT use a 3.3V AGP card on the AGP slot of this motherboard! It may cause permanent damage! Installing an expansion card Step 1.

3V AGP card on the AGP slot of this motherboard! It may cause permanent damage! Installing an expansion card Step 1.



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25 3.1.2 Navigation Keys Please check the following table for the function description of each navigation key. Navigation Key(s) // + / <Enter> <F1> <F9> <F10> <ESC> Function Description Moves cursor left or right to select Screens Moves cursor up or down to select items To change option for the selected items To bring up the selected screen To display the General Help Screen To load optimal default values for all the settings To save changes and exit the BIOS SETUP UTILITY To jump to the Exit Screen or exit the current screen 3.

2 Main Screen When you enter the BIOS SETUP UTILITY, the Main screen will appear and display the system overview Advanced BIOS SETUP UTILITY H/W Monitor Boot Security Exit Main System Overview System Time System Date BIOS Version Processor Type [14:00:09] [Fri 06/15/2012] Use [Enter], [TAB] or [SHIFT-TAB] to select a field. Use [+] or [-] to configure system Time. : 775i65G BIOS P1.00 : Intel (R) CPU 3.40 GHz (64bit supported) Processor Speed : 3400 : 1024KB Cache Size Microcode Update : F34/17 Total Memory DIMM 1 DIMM 2 : 512MB with 8MB shared memory Dual-Channel Memory Mode : 256MB/166MHz (DDR333) : 256MB/166MHz (DDR333) +Tab F1 F9 F10 ESC Select Screen Select Item Change Field Select Field General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. System Time [Hour:Minute:Second] Use this item to specify the system time. System Date [Day Month/Date/Year] Use this item to specify the system date. 26 3 . 3 Advanced Screen In this section, you may set the configurations for the following items: CPU Configuration, Chipset Configuration, ACPI Configuration, IDE Configuration, IDE Configuration, PCIPnP Configuration, Floppy Configuration, SuperIO Configuration, and USB Configuration.

Main Advanced BIOS SETUP UTILITY H/W Monitor Boot Security Configure CPU Exit Advanced Settings WARNING : Setting wrong values in below sections may cause system to malfunction. CPU Configuration Chipset Configuration ACPI Configuration IDE Configuration PCIPnP Configuration Floppy Configuration SuperIO Configuration USB Configuration Enter F1 F9 F10 ESC Select Screen Select Item Go to Sub Screen General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. Setting wrong values in this section may cause the system to malfunction. 3 .

3 . 1 CPU Configuration BIOS SETUP UTILITY Advanced CPU Configuration CPU Host Frequency Actual Frequency (MHz) Boot Failure Guard Spread Spectrum Ratio Status Ratio Actual Value Ratio CMOS Setting [Auto] [200] [Enabled] [Auto] Select how to set the CPU host frequency. Unlocked (Min:06, Max:12) 12 [12] [Disabled] [Enabled] [Disabled] Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit Enhance Halt State CPU Thermal Throttling No-Execute Memory Protection +F1 F9 F10 ESC v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. CPU Host Frequency While entering setup, BIOS auto detects the present CPU host frequency of this motherboard.

The actual CPU host frequency will show in the following item. 27 Boot Failure Guard Enable or disable the feature of Boot Failure Guard. Spread Spectrum This item should always be [Auto] for better system stability. Ratio Status This is a read-only item, which displays whether the ratio status of this motherboard is "Locked" or "Unlocked". If it shows "Unlocked", you will find an item Ratio CMOS Setting appears to allow you changing the ratio value of this motherboard. If it shows "Locked", then the item Ratio CMOS Setting will be hidden. If you use the ratio value to time the CPU frequency, it will be equal to the core speed of the installed processor. Ratio Actual Value This is a read-only item, which displays the ratio actual value of this motherboard. Ratio CMOS Setting If the ratio status is unlocked, will find this item appear to allow you changing the ratio value of this motherboard. Enhance Halt State All processors support the Halt State (C1).

The C1 state is supported through the native processor instructions HLT and MWAIT and requires no hardware support from the chipset. In the C1 power state, the processor maintains the context of the system caches. Max CPUID Value Limit For Prescott CPU only, some OSes (ex. NT4.0) cannot handle the function with disable. This should be enabled in order to boot legacy OSes that cannot support CPUs with extended CPUID functions. Intel (R) Virtualization tech. When this option is set to [Enabled], a VMM (Virtual Machine Architecture) can utilize the additional hardware capabilities provided by Vanderpool Technology. This option will be hidden if the installed CPU does not support Intel (R) Virtualization Technology. CPU Thermal Throttling You may select [Enabled] to enable P4 CPU internal thermal control mechanism to keep the CPU from overheated.

No-Execute Memory Protection No-Execution (NX) Memory Protection Technology is an enhancement to the IA-32 Intel Architecture. An IA-32 processor with "No Execute (NX) Memory Protection" can prevent data pages from being used by malicious software to execute code. This option will be hidden if the current CPU does not support No-Execute Memory Protection. 28 Hyper Threading Technology To enable this feature, it requires a computer system with an Intel Pentium®4 processor that supports Hyper-Threading technology and an operating system that includes optimization for this technology, such as Microsoft® Windows® XP. Set to [Enabled] if using Microsoft® Windows® XP, or Linux kernel version 2.

4.18 or higher. This option will be hidden if the installed CPU does not support Hyper-Threading technology. Intel (R) SpeedStep(tm) tech. Intel (R) SpeedStep(tm) tech.

is Intel's new power saving technology. Processor can switch between multiple frequency and voltage points to enable power savings. If you select [Auto], you need to set the "Power Schemes" as "Portable/Laptop" to enable this function. 29 3.3.2 Chipset Configuration BIOS SETUP UTILITY Advanced Chipset

Configuration DRAM Frequency Configure DRAM Timing by SPD DRAM CAS# Latency DRAM RAS# Precharge DRAM RAS# to CAS# Delay DRAM Precharge Delay DRAM Burst Length Init. Graphic Adapter Priority Internal Graphics Mode Select OnBoard LAN OnBoard AC'97 Audio OnBoard MC'97 Modem Full Reset if AC/Power Loss [Auto] [Disabled] [Auto] [4 Clocks] [4 Clocks] [8 Clocks] [4] [PCI / AGP] [Auto] [Enabled] [Auto] [Auto] [Auto] +F1 F9 F10 ESC Options 133MHz (DDR266) 166MHz (DDR333) 200MHz (DDR400) Auto Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. DRAM Frequency If [Auto] is selected, the motherboard will detect the memory module(s) inserted and assigns appropriate frequency automatically. You may also select other value as operating frequency: [133MHz (DDR 266)], [166MHz (DDR 333)], [200MHz (DDR 400)].



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Configure DRAM Timing by SPD Select [Enabled] will configure the following items by the contents in the SPD (Serial Presence Detect) device. DRAM CAS# Latency Use this item to adjust the means of memory accessing. Configuration options: [Auto], [2.5], [2], and [3]. DRAM RAS# Precharge This controls the idle clocks after a precharge command is issued. Configuration options: [4 Clocks], [3 Clocks], and [2 Clocks]. DRAM RAS# to CAS# Delay This controls the latency between the DRAM active command and the read / write command. Configuration options: [4 Clocks], [3 Clocks], and [2 Clocks]. DRAM Precharge Delay This controls the number of DRAM clocks for RAS minimum. Configuration options: [8 Clocks], [7 Clocks], [6 Clocks], and [5 Clocks].

DRAM Burst Length DRAM Burst length can be set as [8] or [4]. Init. Graphic Adapter Priority This allows you to select [PCI/AGP] and [AGP/PCI] as the initial graphics adapter priority. The default value is [PCI/AGP]. 30 Internal Graphics Mode Select If you select [Auto], the onboard VGA will be automatically disabled when you install VGA card; the onboard VGA will be enabled without the installation of any add-on VGA card. If you select [Enabled, 8MB] or [Enabled, 1MB], the onboard VGA will be enabled. OnBoard LAN This allows you to enable or disable the "OnBoard LAN" feature. OnBoard AC'97 Audio Select [Auto], [Enabled] or [Disabled] for the onboard AC'97 Audio feature. OnBoard MC'97 Modem Select [Auto] or [Disabled] for the onboard MC'97 Modem feature. Full Reset if AC/Power Loss You may select [Auto] or [Disabled] to adjust Full Reset if AC/Power Loss. The default value is [Auto]. VCCM +2.7V Voltage This option allows you to set VCCM +2.7V Voltage. The default value is [Auto]. Configuration options: [High], [Low] and [Auto]. VDDQ +1.58V Voltage This option allows you to set VDDQ +1.58V Voltage. The default value is [Auto].

Configuration options: [High], [Low] and [Auto]. 31 3.3.3 ACPI Configuration BIOS SETUP UTILITY Advanced ACPI Configuration Suspend To RAM Repost Video on STR Resume Restore on AC/Power Loss Ring-In Power On PCI Devices Power On PS / 2 Keyboard Power On RTC Alarm Power On ACPI HPET Table [Auto] [No] [Power Off] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit Select auto-detect or disable the STR feature. v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. Suspend to RAM Use this item to select whether to auto-detect or disable the Suspend-to-RAM feature. Select [Auto] will enable this feature if the OS supports it. Restore on AC/Power Loss This allows you to set the power state after an unexpected AC/power loss. If [Power Off] is selected, the AC/power remains off when the power recovers.

If [Power On] is selected, the AC/power resumes and the system starts to boot up when the power recovers. Ring-In Power On Use this item to enable or disable Ring-In signals to turn on the system from the power-soft-off mode. PCI Devices Power On Use this item to enable or disable PCI devices to turn on the system from the power-soft-off mode. PS/2 Keyboard Power On Use this item to enable or disable PS/2 keyboard to turn on the system from the power-soft-off mode. RTC Alarm Power On Use this item to enable or disable RTC (Real Time Clock) to power on the system.

ACPI HPET Table Use this item to enable or disable ACPI HPET Table. The default value is [Disabled]. Please set this option to [Enabled] if you plan to use this motherboard to submit Windows® certification. 32 3.3.

4 IDE Configuration BIOS SETUP UTILITY Advanced IDE Configuration Onboard IDE Operate Mode OnBoard IDE Controller Primary IDE Master Primary IDE Slave Secondary IDE Master Secondary IDE Slave SATA1 SATA2 [Enhanced Mode] [Both] [Hard Disk] [Not Detected] [Not Detected] [Not Detected] [Not Detected] [Not Detected] Set [Compatible Mode] when both Legacy OS (MS-DOS, Win Me / 98SE) and SATA device are used. Set [Enhanced Mode] when Native OS (Win 2000 / XP) is used. Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit +F1 F9 F10 ESC v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. Onboard IDE Operate Mode Please select [Compatible Mode] when you install legacy OS (Windows® ME / 98SE) into SATA device. If you install legacy OS into IDE HDD while SATA devices are used, you also need to select [Compatible Mode]. If native OS (Windows® 2000 / XP) is installed into SATA device, please select [Enhanced Mode]. You also need to select [Enhanced Mode] while native OS is installed into IDE HDD and SATA devices are used. If you do not install any SATA device, please also select [Enhanced Mode] no matter you use legacy OS or native OS for the system. Please note that the following options will be varied depending on the "Onboard IDE Operate Mode" ([Compatible Mode] or [Enhanced Mode]) that you selected.

When [Enhanced Mode] is selected: OnBoard IDE Controller You may enable either the primary IDE channel or the secondary IDE channel. Or you may enable both the primary and the secondary IDE channels by selecting [Both]. Set to [Disabled] will disable the both. Configuration options: [Disabled], [Primary], [Secondary], [Both]. When [Compatible Mode] is selected Combined Mode Option It allows you to select between [Pri IDE + SATA] and [SATA + Sec IDE]. If it is set to [Pri IDE + SATA], then the secondary IDE will not work. Likewise, if it is set to [SATA + Sec IDE], then the primary IDE will not work. Because Intel® ICH5 south bridge only supports four IDE devices under legacy OS (Windows® ME / 98SE), you have to choose either [Pri IDE + SATA] or [SATA + Sec IDE] when the installed SATA device is used with legacy OS. 33 IDE Device Configuration You may set the IDE configuration of the device that you specify. We will use the "Primary IDE Master" as the example in the following instruction, which can be applied to the configurations of "Primary IDE Slave", "Secondary IDE Master", "Secondary IDE Slave", "SATA1" and "SATA2" as well.

BIOS SETUP UTILITY Advanced Primary IDE Master Device Vendor Size LBA Mode Block Mode PIO Mode Async DMA Ultra DMA S.M.A.R.T. Type LBA/Large Mode Block (Multi-Sector Transfer) PIO Mode DMA Mode S.M.A.R.T.

32Bit Data Transfer :Hard Disk :ST340014A :40.0 GB :Supported :16Sectors :4 :MultiWord DMA-2 :Ultra DMA-5 :Supported [Auto] [Auto] [Auto] [Auto] [Auto] [Disabled] [Disabled] Select the type of device connected to the system. +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. TYPE Use this item to configure the type of the IDE device that you specify. Configuration options: [Not Installed], [Auto], [CD/DVD], and [ARMD]. [Not Installed]: Select [Not Installed] to disable the use of IDE device. [Auto]: Select [Auto] to automatically detect the hard disk drive.



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After selecting the hard disk information into BIOS, use a disk utility, such as FDISK, to partition and format the new IDE hard disk drives. This is necessary so that you can write or read data from the hard disk.

Make sure to set the partition of the Primary IDE hard disk drives to active. [CD/DVD]: This is used for IDE CD/DVD drives. [ARMD]: This is used for IDE ARMD (ATAPI Removable Media Device), such as MO. LBA/Large Mode Use this item to select the LBA/Large mode for a hard disk > 512 MB under DOS and Windows; for Netware and UNIX user, select [Disabled] to disable the LBA/Large mode. Block (Multi-Sector Transfer) The default value of this item is [Auto]. If this feature is enabled, it will enhance hard disk performance by reading or writing more data during each transfer. 34 PIO Mode Use this item to set the PIO mode to enhance hard disk performance by optimizing the hard disk timing. DMA Mode DMA capability allows the improved transfer-speed and data-integrity for compatible IDE devices. S.M.

A.R.T. Use this item to enable or disable the S.M.

A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) feature. Configuration options: [Disabled], [Auto], [Enabled].

32-Bit Data Transfer Use this item to enable 32-bit access to maximize the IDE hard disk data transfer rate. 3.3.5 PCIPnP Configuration BIOS SETUP UTILITY Advanced PCI / PnP Configuration PCI Latency Timer PCI IDE BusMaster [32] [Enabled] Value in units of PCI clocks for PCI device latency timer register. +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. PCI Latency Timer The default value is 32. It is recommended to keep the default value unless the installed PCI expansion cards' specifications require other settings. PCI IDE BusMaster Use this item to enable or disable the PCI IDE BusMaster feature. 35 3 .

3 . 6 Floppy Configuration In this section, you may configure the type of your floppy drive. BIOS SETUP UTILITY Advanced Floppy Configuration Floppy A [1.44 MB 3 1/2"] Select the type of floppy drive connected to the system. +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. 3 . 3 . 7 Super IO Configuration BIOS SETUP UTILITY Advanced Configure Super IO Chipset OnBoard Floppy Controller Serial Port Address Infrared Port Address Parallel Port Address Parallel Port Mode EPP Version ECP Mode DMA Channel Parallel Port IRQ [Enabled] [3F8 / IRQ4] [Disabled] [378] [ECP + EPP] [1.9] [DMA3] [IRQ7] Allow BIOS to Enable or Disable Floppy Controller.

+F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. OnBoard Floppy Controller Use this item to enable or disable floppy drive controller. Serial Port Address Use this item to set the address for the onboard serial port or disable it. Configuration options: [Disabled], [3F8 / IRQ4], [2F8 / IRQ3], [3E8 / IRQ4] and [2E8 / IRQ3].

Infrared Port Address Use this item to set the address for the onboard infrared port or disable it. Configuration options: [Disabled], [3F8 / IRQ4], [2F8 / IRQ3], [3E8 / IRQ4] and [2E8 / IRQ3]. 36 Parallel Port Address Use this item to set the address for the onboard parallel port or disable it. Configuration options: [Disabled], [378], and [278]. Parallel Port Mode Use this item to set the operation mode of the parallel port.

The default value is [ECP+EPP]. If this option is set to [ECP+EPP], it will show the EPP version in the following item, "EPP Version". Configuration options: [Normal], [Bi-Directional], and [ECP+EPP]. EPP Version Use this item to set the EPP version. Configuration options: [1.9] and [1.7]. ECP Mode DMA Channel Use this item to set the ECP mode DMA channel. Configuration options: [DMA0], [DMA1], and [DMA3]. Parallel Port IRQ Use this item to set the IRQ for the parallel port.

@@@ etc. @@ If you set this option as [Disabled], the CPU fan will operate in full speed. If you set this option as [Enabled], you will find the items "Target CPU Temperature" and "Target Fan Speed" appear to allow you adjusting them. The default value is [Disabled]. You are allowed to enable this function only when you install 4-pin CPU fan. Target CPU Temperature The target temperature will be between 45 C/113 F and 65 C/149 F. The default value is [50 C/122 F]. Target Fan Speed Use this option to set the target fan speed. You can freely adjust the target fan speed according to the target CPU temperature that you choose. The default value is [Level 9].

Configuration options: [Level 1] to [Level 9]. 39 3.5 Boot Screen In this section, it will display the available devices on your system for you to configure the boot settings and the boot priority. Main Advanced BIOS SETUP UTILITY H/W Monitor Boot Security Exit Boot Settings Boot Settings Configuration Boot Device Priority Removable Drives Configure Settings during System Boot. Enter F1 F9 F10 ESC Select Screen Select Item Go to Sub Screen General Help Load Defaults Save and Exit Exit v02.

54 (C) Copyright 1985-2003, American Megatrends, Inc. 3.5.1 Boot Settings Configuration BIOS SETUP UTILITY Boot Boot Settings Configuration Boot From Onboard LAN Bootup Num-Lock [Disabled] [On] To enable or disable the boot from network feature. +F1 F9 F10 ESC Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit v02.

54 (C) Copyright 1985-2003, American Megatrends, Inc. Boot From Onboard LAN Use this item to enable or disable the Boot From Onboard LAN feature.

Boot Up Num-Lock If this item is set to [On], it will automatically activate the Numeric Lock function after boot-up. 40 3.5.2 Boot Device Priority In this section, you may specify the boot sequence from the available devices in your system. BIOS SETUP UTILITY Boot Boot Device Priority 1st Boot Device 2nd Boot Device 3rd Boot Device [1st FLOPPY DRIVE] [HDD: PM-MAXTOR 6L08] [CD / DVD] Specifies the boot sequence from the available devices. A device enclosed in parenthesis has been disabled in the corresponding type menu. Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit +F1 F9 F10 ESC v02.54 (C) Copyright 1985-2003, American Megatrends, Inc.

Likewise, you may also specify the boot sequence from the available devices for the hard disk drives, the removable drives, and the CD/DVD drives. 3.6 Security Screen In this section, you may set or change the supervisor/user password for the system. For the user password, you may also clear it. BIOS SETUP UTILITY H/W Monitor Boot Main Advanced Security Exit Security Settings Supervisor Password : Not Installed User Password : Not Installed Change Supervisor Password Change User Password Clear User Password Install or Change the password. Enter F1 F9 F10 ESC Select Screen Select Item Change General Help Load Defaults Save and Exit Exit v02.



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54 (C) Copyright 1985-2003, American Megatrends, Inc. 41 3.7 Exit Screen Main Exit Options Save Changes and Exit Discard Changes and Exit Discard Changes Load Optimal Defaults Advanced BIOS SETUP UTILITY H/W Monitor Boot Security Exit system setup after saving the changes. Exit F10 key can be used for this operation.

Enter F1 F9 F10 ESC Select Screen Select Item Go to Sub Screen General Help Load Defaults Save and Exit Exit v02.54 (C) Copyright 1985-2003, American Megatrends, Inc. Save Changes and Exit When you select this option, it will pop-out the following message, "Save configuration changes and exit setup?"

Select [OK] to save the changes and exit the BIOS SETUP UTILITY. Discard Changes and Exit When you select this option, it will pop-out the following message, "Discard changes and exit setup?" Select [OK] to exit the BIOS SETUP UTILITY without saving any changes. Discard Changes When you select this option, it will pop-out the following message, "Discard changes?" Select [OK] to discard all changes.

Load Optimal Defaults When you select this option, it will pop-out the following message, "Load optimal defaults?" Select [OK] to load the default values for all the setup configurations. 42 Software Support Chapter 4 Software Support 4.1 Install Operating System This motherboard supports various Microsoft® Windows® operating systems: 98SE/ME/2000/XP. Because motherboard settings and hardware options vary, use the setup procedures in this chapter for general reference only. Refer to your OS documentation for more information.

4.2 Support CD Information The Support CD that came with the motherboard contains necessary drivers and useful utilities that enhance the motherboard features. 4.2.1 Running The Support CD To begin using the support CD, insert the CD into your CD-ROM drive. The CD automatically displays the Main Menu if "AUTORUN" is enabled in your computer. If the Main Menu did not appear automatically, locate and double click on the file "ASSETUP.EXE" from the BIN folder in the Support CD to display the menus. 4.2.

2 Drivers Menu The Drivers Menu shows the available devices drivers if the system detects installed devices. Please install the necessary drivers to activate the devices. 4.2.3 Utilities Menu The Utilities Menu shows the applications software that the motherboard supports. Click on a specific item then follow the installation wizard to install it. 4. 2. 4 Contact Information If you need to contact ASRock or want to know more about ASRock, welcome to visit ASRock's website at <http://www.asrock.com>.

com; or you may contact your dealer for further information. 43 .



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