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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-H81M-S2PT. You'll find the answers to all your questions on the GIGABYTE GA-H81M-S2PT 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-H81M-S2PT

User guide GIGABYTE GA-H81M-S2PT

Operating instructions GIGABYTE GA-H81M-S2PT

Instructions for use GIGABYTE GA-H81M-S2PT

Instruction manual GIGABYTE GA-H81M-S2PT

GA-H81M-S2PT

User's Manual
Rev. 1001
12ME-H81M2PT-1001R



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Manual abstract:

© 2014, 2014 Apr. 18, 2014 Copyright © 2014 GIGA-BYTE TECHNOLOGY CO., LTD. All rights reserved. In order to assist in the use of this product, carefully read the User's Manual. For product-related information, check on our website at: <http://www.gigabyte.com> 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: Table of Contents GA-H81M-S2PT Motherboard Layout..

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. 32 -3- GA-H81M-S2PT Motherboard Layout KB_MS DDR3_1 COMA ATX_12V_2X4 LGA1150 DDR3_2 ATX VGA R_USB30 SATA3 1 SATA2 3 0 2
M_BIOS B_BIOS Intel® H81 F_USB1 CLR_CMOS F_PANEL USB_LAN BAT AUDIO Realtek® GbE LAN CPU_FAN SYS_FAN PCIEX16 LPT GA-H81M-
S2PT PCIe to PCI Bridge PCIEX1 iTE® Super I/O CODEC F_AUDIO PCI1 PCI2 F_USB2 SPDIF_O Box Contents 55 GA-H81M-S2PT motherboard 55
Motherboard driver disk 55 User's Manual 55 Two SATA cables 55 I/O Shield The box contents above are for reference only and the actual items shall
depend on the product package you obtain. The box contents are subject to change without notice. -4- GA-H81M-S2PT Motherboard Block Diagram 1 PCI
Express x16 CPU CLK+/- (100 MHz) LGA1150 CPU DDR3 1600/1333 MHz Dual Channel Memory PCIe CLK (100 MHz) DMI 2.0 FDI x16 PCI Express
Bus D-Sub PCI Express Bus x1 PCIe CLK (100 MHz) 1 PCI Express x1 x1 Realtek® GbE LAN Dual BIOS 2 SATA 6Gb/s x1 Intel® H81 2 SATA 3Gb/s 2 USB
3.0/2.0 6 USB 2.0/1.1 PCIe to PCI Bridge RJ45 LAN LPC Bus CODEC LPT iTE Super I/O ® COM PCI CLK (33 MHz) PS/2 KB/Mouse MIC
(Center/Subwoofer Speaker Out) Line Out (Front Speaker Out) Line In (Rear Speaker Out) -5- 2 PCI For detailed product information/limitation(s), refer to
"1-2 Product Specifications." S/PDIF Out Chapter 1 Hardware Installation 1-1 Installation Precautions The motherboard contains numerous delicate
electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD).

Prior to installation, carefully read the user's manual and follow these procedures: • Prior to installation, make sure the chassis is suitable for the
motherboard. • Prior to installation, do not remove or break motherboard S/N (Serial Number) sticker or warranty sticker provided by your dealer. These
stickers are required for warranty validation. • Always remove the AC power by 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.
-6- 1-2 Product Specifications CPU □□ Support for Intel® Core™ i7 processors/Intel® Core™ i5 processors/Intel® Core™ i3 processors/Intel® Pentium®
processors/ Intel® Celeron® processors in the LGA1150 package (Go to GIGABYTE's website for the latest CPU support list.) □□ L3 cache varies with CPU
□□ Intel® H81 Express Chipset □□ 2 x DDR3 DIMM sockets supporting up to 16 GB of system memory * □□ Due to a Windows 32-bit operating system
limitation, when more than 4 GB of physical memory is installed, the actual memory size displayed will be less than the size of the physical memory installed.

Chipset Memory □□ □□ □□ □□ Onboard Graphics Audio □□ □□ □□ □□ Dual channel memory architecture Support for DDR3 1600/1333 MHz memory
modules Support for non-ECC memory modules Support for Extreme Memory Profile (XMP) memory modules (Go to GIGABYTE's website for the latest
supported memory speeds and memory modules.) Integrated Graphics Processor: - 1 x D-Sub port, supporting a maximum resolution of 1920x1200 -
Maximum shared memory of 1 GB Realtek® ALC887 codec High Definition Audio 2/4/5.1/7.1-channel □□ Support for S/PDIF Out LAN * □□ configure
7.1-channel audio, you have to use an HD front panel audio module To and enable the multi-channel audio feature through the audio driver. □□ Realtek®
GbE LAN chip (10/100/1000 Mbit) Expansion Slots □□ 1 x PCI Express x16 slot, running at x16 □□ 1 x PCI Express x1 slot (The PCI Express slots conform
to PCI Express 2.0 standard.) □□ 2 x PCI slots Storage Interface □□ Chipset: - 2 x SATA 6Gb/s connectors (SATA3 0/1) - 2 x SATA 3Gb/s connectors
(SATA2 2/3) USB □□ Chipset: - 2 x USB 3.0/2.0 ports on the back panel - □□ x USB 2.
0/1.1 ports (2 port on the back panel, 4 ports available through 6 the internal USB header) Internal □□ 1 x 24-pin ATX main power connector □□ 1 x 8-pin
ATX 12V power connector Connectors □□ 2 x SATA 6Gb/s connectors □□ 2 x SATA 3Gb/s connectors □□ 1 x CPU fan header □□ 1 x system fan headers
□□ 1 x front panel header □□ 1 x front panel audio header □□ 1 x S/PDIF Out header -7- Internal Connectors Back Panel Connectors □□ □□ □□ □□ □□
□□ □□ □□ □□ □□ □□ □□ □□ □□ □□ 2 x USB 2.



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0/1.1 headers 1 x Clear CMOS jumper 1 x PS/2 keyboard port 1 x PS/2 mouse port 1 x parallel port 1 x serial port 1 x D-Sub port 2 x USB 3.0/2.0 ports 2 x USB 2.0/1.1 ports 1 x RJ-45 port 3 x audio jacks (Line In, Line Out, Mic In) System voltage detection CPU/System temperature detection CPU/System fan speed detection CPU/System overheating warning CPU/System fan fail warning CPU/System fan speed control I/O Controller Hardware Monitor iTE® I/O Controller Chip * Whether the fan speed control function is supported will depend on the cooler you install. BIOS Unique Features 2 x 32 Mbit flash Use of licensed AMI UEFI BIOS Support for DualBIOS™ PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0 Support for Q-Flash Support for Xpress Install Support for APP Center Bundled Software Operating System Form Factor - @BIOS - EasyTune - EZ Setup - USB Blocker Support for ON/OFF Charge * Available applications in APP Center may differ by motherboard model. Supported functions of each application may also differ depending on motherboard specifications. Norton® Internet Security (OEM version) Support for Windows 8.1/8/7 Micro ATX Form Factor; 24.4cm x 18.0cm * GIGABYTE reserves the right to make any changes to the product specifications and product-related information without prior notice. * Please visit the Support & Downloads\Utility page on GIGABYTE's website to check the supported operating system(s) for the software listed in the "Unique Features" and "Bundled Software" columns.

-8- 1-3 Installing the CPU Read the following guidelines before you begin to install the CPU: •• Make sure that the motherboard supports the CPU. (Go to GIGABYTE's website for the latest CPU support list.) •• Always turn off the computer and unplug the power cord from the power outlet before installing the CPU to prevent hardware damage. •• Locate the pin one of the CPU. The CPU cannot be inserted if oriented incorrectly. (Or you may locate the notches on both sides of the CPU and alignment keys on the CPU socket.) •• Apply an even and thin layer of thermal grease on the surface of the CPU. •• Do not turn on the computer if the CPU cooler is not installed, otherwise overheating and damage of the CPU may occur. •• Set the CPU host frequency in accordance with the CPU specifications. It is not recommended that the system bus frequency be set beyond hardware specifications since it does not meet the standard requirements for the peripherals.

If you wish to set the frequency beyond the standard specifications, please do so according to your hardware specifications including the CPU, graphics card, memory, hard drive, etc. Installing the CPU Locate the alignment keys on the motherboard CPU socket and the notches on the CPU. LGA1150 CPU Socket Alignment Key Alignment Key Notch LGA1150 CPU Notch to side to prevent an electrical short inside the cable connector. - 10 - Line Out Jack (Green) Mic In Jack (Pink) The 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. The Mic in jack. Microphones must be connected to this jack. To configure 7.1-channel audio, you have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver. 1-7 Internal Connectors 1 2 7 5 3 4 6 9 10 11 12 8 1) 2) 3) 4) 5) 6) ATX_12V_2X4 ATX CPU_FAN SYS_FAN BAT SATA3 0/1 7) 8) 9) 10) 11) 12) SATA2 2/3 F_PANEL F_AUDIO SPDIF_O F_USB1/F_USB2 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. - 11 - 1/2) ATX_12V_2X4/ATX (2x4 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. ATX_12V_2X4: 5 1 ATX_12V_2X4 8 4 Pin No. 1 2 3 4 ATX: Definition Pin No. GND (Only for 2x4-pin 12V) 5 GND (Only for 2x4-pin 12V) 6 GND 7 GND 8 Definition +12V (Only for 2x4-pin 12V) +12V (Only for 2x4-pin 12V) +12V +12V 12 24 Pin No. 1 2 3 4 5 6 7 8 9 10 11 12 1 ATX 13 Definition Pin No. 3.3V 13 3.3V 14 GND 15 +5V 16 GND 17 +5V 18 GND 19 Power Good 20 5VSB (stand by +5V) 21 +12V 22 +12V (Only for 2x12-pin 23 ATX) 3.3V (Only for 2x12-pin 24 ATX) 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) 3/4) CPU_FAN/SYS_FAN (Fan Headers) The motherboard has a 4-pin CPU fan header (CPU_FAN) and a 4-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 speed control function requires the use of a fan with fan speed control design. For optimum heat dissipation, it is recommended that a system fan be installed inside the chassis. CPU_FAN: 1 CPU_FAN SYS_FAN: Pin No. 1 2 3 4 Definition GND +12V Sense Speed Control 1 SYS_FAN Pin No. 1 2 3 4 Definition GND Speed Control Sense +5V •• 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. - 12 - 5) 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. 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.



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(Or use a DEBUG to touch metal object like a screwdriver DEBUG the positive and negative terminals of the battery PORT PORT 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.

•••••• 6) SATA3 0/1 (SATA 6Gb/s Connectors) The SATA connector conforms to SATA 6Gb/s standard and are compatible with SATA 3Gb/s and SATA 1.5Gb/s standard. Each SATA connector supports a single SATA device. 7 7 DEBUGDEBUG 1 GND PORT PORT SATA3 1 1 1 0 Pin No. 2 3 4 5 6 7 Definition TXP TXN GND RXN RXP GND 7) SATA2 2/3 (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. Pin No. 1 2 3 4 5 6 7 Definition GND TXP TXN GND RXN RXP GND 7 7 SATA2 1 1 3 2 - 13 - 8) F_PANEL (Front Panel Header) Connect the power switch, reset switch, speaker, and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.

Power LED Power Switch Speaker F_Hard Drive Reset Activity LED Switch Power LED Chassis Intrusion Header SS 1 1 _S •• RES (Reset Switch): 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. •• CI (Chassis Intrusion Header): Connects to the chassis intrusion switch/sensor on the chassis that can detect if the chassis cover has been removed. This function requires a chassis with a chassis intrusion switch/sensor. The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, B B 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. _B S_ S 1 2 3 1 2 3 9) F_AUDIO (Front Panel Audio Header) 1 2 3 The front panel audio header supports Intel High Definition audio (HD) and AC'97 audio. You may connect S B_ B 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. For HD Front Panel Audio: Pin No. Definition _ S 1 MIC2_L 2 GND S_ _ 3 MIC2_R B 4 -ACZ_DET 5 LINE2_R 6 GND _ U _ 7 FAUDIO_JD B 8 No Pin 9 LINE2_L 10 GND F F_USB3 For AC'97 Front Panel Audio: Pin No. Definition 1 MIC 2 GND 3 MIC Power 4 NC 5 Line Out (R) 6 NC 7 NC 8 No Pin 9 Line Out (L) 10 NC 9 10 1 2 U _ _ 3 •• The front panel audio header supports HD audio by default. •• Audio signals will be present on both of the front and back panel audio connections simultaneously. •• 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. PWR_LED+ PWR_LED- HD+ HDRESRES+ CICI+ - 14 - 1 2 3 2 1 20 19 •• PLED/PWR_LED (Power LED): Connects to the power status indicator System Status LED on the chassis front panel. The LED is on S0 On when the system is operating. The LED is S3/S4/S5 Off off when the system is in S3/S4 sleep state or powered off (S5).

S S U •• PW (Power Switch): F_ PLED+ PLEDPW+ PW- SPEAK+ SPEAK- 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," for more information). •• SPEAK (Speaker): 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.

•• HD (Hard Drive Activity LED): 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. 1 1 1 2 3 10) SPDIF_O (SPDIF Out Header) This header supports digital SPDIF Out and connects a SPDIF digital audio cable (provided by expansion cards) for digital audio output from your motherboard to certain expansion cards like graphics cards and sound cards. For example, some graphics cards may require you to use a SPDIF digital audio cable for digital audio output from your motherboard to your graphics card if you wish to connect an HDMI display to the graphics card and have digital audio output from the HDMI display at the same time. For information about connecting the SPDIF digital audio cable, carefully read the manual for your expansion card.

Pin No. 1 2 Definition SPDIFO GND 1 11) F_USB1/F_USB2 (USB 2.0/1.1 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. 9 10 1 2 Pin No. 1 2 3 4 5 Definition Power (5V) Power (5V) USB DXUSB DYUSB DX+ Pin No.

6 7 8 9 10 Definition USB DY+ GND GND No Pin NC •• 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. 12) CLR_CMOS (Clear CMOS Jumper) Use this jumper to clear the BIOS configuration and reset the CMOS values to factory defaults. To clear the CMOS values, 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 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). - 15 - 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.



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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 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. •• 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. •• 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/clear CMOS jumper in Chapter 1 for how to clear the CMOS values.) 2-1 Startup Screen The following startup Logo screen will appear when the computer boots. (Sample BIOS Version: F1b) Function Keys •• 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. - 16 - 2-2 M.I.T. This section provides information on the BIOS version, CPU base clock, CPU frequency, memory frequency, total memory size, CPU temperature, Vcore, and memory voltage. Whether the system will work stably with the overclock/overvoltage settings you made is dependent on your overall system configurations. Incorrectly doing overclock/overvoltage may result in damage to CPU, chipset, or memory and reduce the useful life of these components.

This page is for advanced users only and we recommend you not to alter the default settings to prevent system instability or other unexpected results. (Inadequately altering the settings may result in system's failure to boot. If this occurs, clear the CMOS values and reset the board to default values.) `M.I.T. Current Status `Advanced Frequency Settings && Processor Graphics Clock This screen provides information on CPU/memory frequencies/parameters. && CPU Upgrade (Note) Allows you to set the onboard graphics clock. The adjustable range is from 400 MHz to 4000 MHz. (Default: Auto) Allows you to set the CPU frequency.

Options may vary depending on the CPU being used. (Default: Auto) && CPU Clock Ratio && CPU Frequency Allows you to alter the clock ratio for the installed CPU. The adjustable range is dependent on the CPU being installed. Displays the current operating CPU frequency. `Advanced CPU Core Settings && CPU Clock Ratio, CPU Frequency && K OC (Note) (Note) The settings above are synchronous to those under the same items on the Advanced Frequency Settings menu.

Allows for increased performance by using certain CPUs. (Default: Auto) This item is present only when you install a CPU that supports this feature. For more information about Intel® CPUs' unique features, please visit Intel's website. - 17 - && CPU PLL Selection && Filter PLL Level && Uncore Ratio Allows you to set the CPU PLL. Auto lets the BIOS automatically configure this setting.

(Default: Auto) Allows you to set the Filter PLL. Auto lets the BIOS automatically configure this setting. (Default: Auto) Allows you to set the CPU Uncore ratio. The adjustable range is dependent on the CPU being used. Displays the current CPU Uncore frequency. && Uncore Frequency && Intel(R) Turbo Boost Technology (Note) && Turbo Ratio (1-Core Active~4-Core Active) (Note) && Turbo Power Limit (Watts) Allows you to determine whether to enable the Intel CPU Turbo Boost technology. Auto lets the BIOS automatically configure this setting. (Default: Auto) Allows you to set the CPU Turbo ratios for different number of active cores. Auto sets the CPU Turbo ratios according to the CPU specifications. (Default: Auto) Allows you to set a power limit for CPU Turbo mode.

When the CPU power consumption exceeds the specified power limit, the CPU will automatically reduce the core frequency in order to reduce the power. Auto sets the power limit according to the CPU specifications. (Default: Auto) Allows you to set a current limit for CPU Turbo mode. When the CPU current exceeds the specified current limit, the CPU will automatically reduce the core frequency in order to reduce the current. Auto sets the power limit according to the CPU specifications. (Default: Auto) Allows you to select the number of CPU cores to enable in an Intel® multi-core CPU (the number of CPU cores may vary by CPU). Auto lets the BIOS automatically configure this setting. (Default: Auto) Allows you to determine whether to enable multi-threading technology when using an Intel® CPU that supports this function. This feature only works for operating systems that support multi-processor mode. Auto lets the BIOS automatically configure this setting.

(Default: Auto) Enables or disables Intel® CPU Enhanced Halt (C1E) function, a CPU power-saving function in system halt state. When enabled, the CPU core frequency and voltage will be reduced during system halt state to decrease power consumption. Auto lets the BIOS automatically configure this setting. (Default: Auto) Allows you to determine whether to let the CPU enter C3 mode in system halt state. When enabled, the CPU core frequency and voltage will be reduced during system halt state to decrease power consumption.

The C3 state is a more enhanced power-saving state than C1. Auto lets the BIOS automatically configure this setting. (Default: Auto) Allows you to determine whether to let the CPU enter C6/C7 mode in system halt state. When enabled, the CPU core frequency and voltage will be reduced during system halt state to decrease power consumption. The C6/C7 state is a more enhanced power-saving state than C3.

Auto lets the BIOS automatically configure this setting. (Default: Auto) Enables or disables Intel® Thermal Monitor function, a CPU overheating protection function. When enabled, the CPU core frequency and voltage will be reduced when the CPU is overheated. Auto lets the BIOS automatically configure this setting. (Default: Auto) This item is present only when you install a CPU that supports this feature. For more information about Intel® CPUs' unique features, please visit Intel's website.



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- 18 - && Core Current Limit (Amps) && No. of CPU Cores Enabled (Note) && Hyper-Threading Technology (Note) && CPU Enhanced Halt (C1E) (Note) && C3 State Support (Note) && C6/C7 State Support (Note) && CPU Thermal Monitor (Note) (Note) && CPU EIST Function (Note 1) Enables or disables Enhanced Intel® Speed Step Technology (EIST). Depending on CPU loading, Intel EIST technology can dynamically and effectively lower the CPU voltage and core frequency to decrease average power consumption and heat production. Auto lets the BIOS automatically configure this setting.

(Default: Auto) Allows the BIOS to read the SPD data on XMP memory module(s) to enhance memory performance when enabled. Disabled Disables this function. (Default) Profile1 Uses Profile 1 settings. Profile2 (Note 2) Uses Profile 2 settings. Allows you to set the system memory multiplier. Auto sets memory multiplier according to memory SPD data. (Default: Auto) The first memory frequency value is the normal operating frequency of the memory being used; the second is the memory frequency that is automatically adjusted according to the System Memory Multiplier settings. && Extreme Memory Profile (X.M.P.

) (Note 2) && System Memory Multiplier && Memory Frequency (MHz) ``Advanced Memory Settings && Extreme Memory Profile (X.M.P.) (Note 2), System Memory Multiplier, Memory Frequency(MHz) && Memory Boot Mode The settings above are synchronous to those under the same items on the Advanced Frequency Settings menu. Provides memory detection and training methods.

Auto Lets the BIOS automatically configure this setting. (Default) Enable Fast Boot Skip memory detection and training in some specific criteria for faster memory boot. Disable Fast Boot Detect and train memory at every single boot. Allows you to configure memory timing profile for different frequency memory. Options are: Auto (default), Normal Speed, High Speed, Extreme Speed.

&& Memory Initialization Mode && Memory Enhancement Settings && Memory Timing Mode Provides three different memory performance enhancement settings: Normal (basic performance), Enhanced Stability, and Enhanced Performance. (Default: Normal) Manual and Advanced Manual allows the Channel Interleaving, Rank Interleaving, and memory timing settings below to be configurable. Options are: Auto (default), Manual, Advanced Manual. When using a non-XMP memory module or Extreme Memory Profile (X.M.P.) is set to Disabled, the value is displayed according to your memory specification. When Extreme Memory Profile (X.M.P.

) is set to Profile1 or Profile2, the value is displayed according to the SPD data on the XMP memory. Enables or disables memory channel interleaving. Enabled allows the system to simultaneously access different channels of the memory to increase memory performance and stability. Auto lets the BIOS automatically configure this setting. (Default: Auto) Enables or disables memory rank interleaving. Enabled allows the system to simultaneously access different ranks of the memory to increase memory performance and stability. Auto lets the BIOS automatically configure this setting. (Default: Auto) && Profile DDR Voltage && Channel Interleaving && Rank Interleaving (Note 1) This item is present only when you install a CPU that supports this feature. For more information about Intel® CPUs' unique features, please visit Intel's website. (Note 2) This item is present only when you install a CPU and a memory module that support this feature.

- 19 - ``Channel A/B Memory Sub Timings This sub-menu provides memory timing settings for each channel of memory. This sub-menu provides memory timing settings for each channel of memory. The respective timing setting screens are configurable only when Memory Timing Mode is set to Manual or Advanced Manual. Note: Your system may become unstable or fail to boot after you make changes on the memory timings.

@@@@ When temperature exceeds the threshold, BIOS will emit warning sound.

@@ Check the fan condition or fan connection when this occurs. @@@@ (Default) Silent Allows the fan to run at slow speeds. @@ Full Speed Allows the fan to run at full speeds. Allows you to control the fan speed. @@ Options are: 0.

75 PWM value /oC ~ 2.50 PWM value /oC. @@@@ (Default) Silent Allows the fan to run at slow speeds. @@@@ Auto lets the BIOS automatically configure this setting. @@ (Default: Disabled) 2-3 System Information This section provides information on your motherboard model and BIOS version. You can also select the default language used by the BIOS and manually set the system time. && System Language && System Date Selects the default language used by the BIOS. && System Time Sets the system date. The date format is week (read-only), month, date, and year. Use <Enter> to switch between the Month, Date, and Year fields and use the <Page Up> or <Page Down> key to set the desired value.

Sets the system time. The time format is hour, minute, and second. For example, 1 p.m. is 13:0:0. Use <Enter> to switch between the Hour, Minute, and Second fields and use the <Page Up> or <Page Down> key to set the desired value. Displays the current access level depending on the type of password protection used. (If no password is set, the default will display as Administrator.) The Administrator level allows you to make changes to all BIOS settings; the User level only allows you to make changes to certain BIOS settings but not all. - 21 - && Access Level 2-4 BIOS Features && Boot Option Priorities && Hard Drive/CD/DVD ROM Drive/Floppy Drive/Network Device BBS Priorities Specifies the overall boot order from the available devices.

For example, you can set hard drive as the first priority (Boot Option #1) and DVD ROM drive as the second priority (Boot Option #2). The list only displays the device with the highest priority for a specific type. For example, only hard drive defined as the first priority on the Hard Drive BBS Priorities submenu will be presented here. Removable storage devices that support GPT format will be prefixed with "UEFI:" string on the boot device list. To boot from an operating system that supports GPT partitioning, select the device prefixed with "UEFI:" string.

Or if you want to install an operating system that supports GPT partitioning such as Windows 7 64-bit, select the optical drive that contains the Windows 7 64-bit installation disk and is prefixed with "UEFI:" string. Specifies the boot order for a specific device type, such as hard drives, optical drives, floppy disk drives, and devices that support Boot from LAN function, etc. Press <Enter> on this item to enter the submenu that presents the devices of the same type that are connected.



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This item is present only if at least one device for this type is installed. Enables or disables Numlock feature on the numeric keypad of the keyboard after the POST.

(Default: Enabled) 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 Administrator Password/User Password item. Setup password is only required for entering the BIOS Setup program. A System A password is required for booting the system and for entering the BIOS Setup program. (Default) Allows you to determine whether to display the GIGABYTE Logo at system startup. Disabled skips the GIGABYTE Logo when the system starts up. (Default: Enabled) && Bootup NumLock State && Security Option && Full Screen LOGO Show - 22 - && Fast Boot && VGA Support Enables or disables Fast Boot to shorten the OS boot process. Ultra Fast provides the fastest bootup speed. (Default: Disabled) Allows you to select which type of operating system to boot. Auto Enables legacy option ROM only.

EFI Driver Enables EFI option ROM. (Default) This item is configurable only when Fast Boot is set to Enabled or Ultra Fast. Disabled USB devices are disabled before the OS boot process completes. All Full Initial USB devices are functional in the operating system and during the POST. All Partial Initial Part of the USB devices are disabled before the OS boot process completes. (Default) This item is configurable only when Fast Boot is set to Enabled. This item is disabled when Fast Boot is set to Ultra Fast. Disabled PS/2 devices are disabled before the OS boot process completes. All Enabled All PS/2 devices are functional in the operating system and during the POST. (Default) This item is configurable only when Fast Boot is set to Enabled.

This item is disabled when Fast Boot is set to Ultra Fast. Disabled Disables booting from the network. (Default) Enabled Enables booting from the network. This item is configurable only when Fast Boot is set to Enabled or Ultra Fast. Normal Boot Enables normal bootup upon the return of the AC power.

(Default) Fast Boot Keeps the Fast Boot settings upon the return of the AC power. This item is configurable only when Fast Boot is set to Enabled or Ultra Fast. Allows you to determine whether to limit CPUID maximum value. Set this item to Disabled for Windows XP operating system; set this item to Enabled for legacy operating system such as Windows NT4.0.

(Default: Disabled) Enables or disables Intel® Execute Disable Bit function. This function may enhance protection for the computer, reducing exposure to viruses and malicious buffer overflow attacks when working with its supporting software and system. (Default: Enabled) Enables or disables Intel® Virtualization Technology. Virtualization enhanced by Intel® Virtualization Technology will allow a platform to run multiple operating systems and applications in independent partitions. With virtualization, one computer system can function as multiple virtual systems. (Default: Enabled) Enables or disables Intel® Trusted Execution Technology (Intel® TXT). Intel® Trusted Execution Technology provides a hardware-based security foundation. (Default: Disabled) Enables or disables Intel® Virtualization Technology for Directed I/O. (Default: Enabled) Allows you to select the operating system to be installed. (Default: Other OS) This item is present only when you install a CPU that supports this feature.

For more information about Intel® CPUs' unique features, please visit Intel's website. - 23 - && USB Support && PS2 Devices Support && NetWork Stack Driver Support && Next Boot After AC Power Loss && Limit CPUID Maximum (Note) && Execute Disable Bit (Note) && Intel Virtualization Technology (Note) && Intel TXT(LT) Support (Note) && VT-d (Note) && Windows 8 Features (Note) && CSM Support && Boot Mode Selection Enables or disables UEFI CSM (Compatibility Support Module) to support a legacy PC boot process. Always Enables UEFI CSM. (Default) Never Disables UEFI CSM and supports UEFI BIOS boot process only. This item is configurable only when Windows 8 Features is set to Windows 8 or Windows 8 WHQL. Allows you to select which type of operating system to boot. UEFI and Legacy Allows booting from operating systems that support legacy option ROM or UEFI option ROM. (Default) Legacy Only Allows booting from operating systems that only support legacy Option ROM. UEFI Only Allows booting from operating systems that only support UEFI Option ROM. This item is configurable only when CSM Support is set to Always.

Allows you to select whether to enable the legacy option ROM for the LAN controller. (Default: Disabled) This item is configurable only when CSM Support is set to Always. && LAN PXE Boot Option ROM && Storage Boot Option Control && Other PCI Device ROM Priority Allows you to select whether to enable the UEFI or legacy option ROM for the storage device controller. Disabled Disables option ROM. Legacy only Enables legacy option ROM only.

(Default) UEFI only Enables UEFI option ROM only. Legacy First Enables legacy option ROM first. UEFI First Enables UEFI option ROM first. This item is configurable only when CSM Support is set to Always. Allows you to select whether to enable the UEFI or Legacy option ROM for the PCI device controller other than the LAN, storage device, and graphics controllers.

Legacy OpROM Enables legacy option ROM only. UEFI OpROM Enables UEFI option ROM only. (Default) This item is configurable only when CSM Support is set to Always. Disables or enables booting from the network to install a GPT format OS, such as installing the OS from the Windows Deployment Services server. (Default: Disabled) Enables or disables IPv4 PXE Support. This item is configurable only when Network stack is enabled. Enables or disables IPv6 PXE Support. This item is configurable only when Network stack is enabled. && Network stack && Ipv4 PXE Support && Ipv6 PXE Support && Administrator Password && User Password Allows you to configure an administrator password. Press <Enter> on this item, type the password, and then press <Enter>.

You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. Differing from the user password, the administrator password allows you to make changes to all BIOS settings. Allows you to configure a user password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password.



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Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. However, the user password only allows you to make changes to certain BIOS settings but not all.

To cancel the password, press <Enter> on the password item and when requested for the password, enter the correct one first. When prompted for a new password, press <Enter> without entering any password. Press <Enter> again when prompted to confirm. - 24 - 2-5 Peripherals && Initial Display Output Specifies the first initiation of the monitor display from the installed PCI graphics card, PCI Express graphics card, or the onboard graphics. IGFX Sets the onboard graphics as the first display.

PCIe 1 Slot Sets the graphics card on the PCIEX16 slot as the first display. (Default) PCI Sets the graphics card on the PCI slot as the first display. Allows you to determine the operating mode for the xHCI controller in OS. Smart Auto This mode is available only when the BIOS supports the xHCI controller in the pre-boot environment. This mode is similar to Auto, but it adds the capability to route the ports to xHCI or EHCI according to setting used in previous boots (for non-G3 boot) in the pre-boot environment.

This allows the use of USB 3.0 devices prior to OS boot. xHCI controller enabling and rerouting should follow the steps in Auto, when previous boot routes ports to EHCI. Note: This is the recommended mode when BIOS has xHCI preboot support. (Default) Auto BIOS routes the sharable ports to EHCI controller. Then it uses ACPI protocols to provide an option to enable the xHCI controller and reroute the sharable ports. Note: This is the recommended mode when BIOS does NOT have xHCI pre-boot support. Enabled All shared ports are eventually routed to the xHCI controller during the BIOS boot process. If BIOS does not have pre-boot support for the xHCI controller, it should initially route the sharable ports to the EHCI controller and then prior to OS boot it should route the ports to xHCI controller. Note: OS has to provide support for the xHCI controller in this mode.

If the OS does not provide support, all sharable ports won't work. Disabled USB 3.0 ports are routed to the EHCI controller and the xHCI controller is turned The off. All USB 3.0 devices function as High Speed devices regardless of xHCI software support/availability. Manual Allows you to determine whether to route the USB 3.0 ports to the xHCI or EHCI controller before booting to OS, and also provides you with options to manually route each USB 3.0/2.0 port to xHCI or EHCI. && xHCI Mode - 25 - && Audio Controller && Intel Processor Graphics 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. Enables or disables the onboard graphics function. (Default: Enabled) Allows you to set the onboard graphics memory size. Options are: 32M~1024M. (Default: 64M) && Intel Processor Graphics Memory Allocation && DVMT Total Memory Size && Legacy USB Support && XHCI Hand-off Allows you to allocate the DVMT memory size of the onboard graphics.

Options are: 128M, 256M, MAX. (Default: MAX) Allows USB keyboard/mouse to be used in MS-DOS. (Default: Enabled) && EHCI Hand-off Determines whether to enable XHCI Hand-off feature for an operating system without XHCI Hand-off support. (Default: Enabled) Determines whether to enable EHCI Hand-off feature for an operating system without EHCI Hand-off support. (Default: Disabled) Displays a list of connected USB mass storage devices.

This item appears only when a USB storage device is installed. Enables or disables the onboard LAN function. (Default: Enabled) If you wish to install a 3rd party add-in network card instead of using the onboard LAN, set this item to Disabled. && USB Storage Devices && OnBoard LAN Controller ``SATA Configuration && Integrated SATA Controller && SATA Mode Selection Enables or disables the integrated SATA controllers. (Default: Enabled) ``Serial ATA Port 0/1/2/3 && Port 0/1/2/3 Allows you to decide whether to configure the SATA controller integrated in the Chipset to AHCI mode. IDE Configures the SATA controller to IDE mode. AHCI Configures the SATA controllers to AHCI mode. Advanced Host Controller Interface (AHCI) is an interface specification that allows the storage driver to enable advanced Serial ATA features such as Native Command Queuing and hot plug. (Default) && Hot plug Enables or disables each SATA port. (Default: Enabled) Enables or disable the hot plug capability for each SATA port.

(Default: Disabled) Enables or disables support for external SATA devices. (Default: Disabled) && External SATA ``Super IO Configuration && Serial Port A This section provides information on the super I/O chip and allows you to configure the serial port and parallel port. Enables or disables the onboard serial port. (Default: Enabled) - 26 - && Parallel Port && Device Mode Enables or disables the onboard parallel port. (Default: Enabled) This item is configurable only when Parallel Port is set to Enabled. Selects an operating mode for the onboard parallel (LPT) port. Options are: Standard Parallel Port Mode (Default), EPP Mode (Enhanced Parallel Port), ECP Mode (Extended Capabilities Port), EPP Mode & ECP Mode. This sub-menu provides information on LAN configuration. ``Realtek PCIe GBE Family Controller 2-6 Power Management && Power Loading && Resume by Alarm Enables or disables dummy load. When the power supply is at low load, a self-protection will activate causing it to shutdown or fail.

If this occurs, please set to Enabled. Auto lets the BIOS automatically configure this setting. (Default: Auto) Determines whether to power on the system at a desired time. (Default: Disabled) If enabled, set the date and time as following: Wake up day: Turn on the system at a specific time on each day or on a specific day in a month. Wake up hour/minute/second: Set the time at which the system will be powered on automatically.

Note: When using this function, avoid inadequate shutdown from the operating system or removal of the AC power, or the settings may not be effective. Configures the way to turn off the computer in MS-DOS mode using the power button. Instant-Off Press the power button and then the system will be turned off instantly. (Default) Delay 4 Sec. Press and hold the power button for 4 seconds to turn off the system.

If the power button is pressed for less than 4 seconds, the system will enter suspend mode. Allows you to determine whether to let the onboard graphics enter standby mode to decrease power consumption. (Default: Disabled) - 27 - && Soft-Off by PWR-BTTN && RC6(Render Standby) && AC BACK && Power On By Keyboard Determines the state of the system after the return of power from an AC power loss.



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Memory The system returns to its last known awake state upon the return of the AC power. Always On The system is turned on upon the return of the AC power. Always Off The system stays off upon the return of the AC power. (Default) Allows the system to be turned on by a PS/2 keyboard wake-up event. Note: To use this function, 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.

Keyboard 98 Press POWER button on the Windows 98 keyboard to turn on the system. Any Key Press any key to turn on the system. 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. Allows the system to be turned on by a PS/2 mouse wake-up event. Note: To use this function, you need an ATX power supply providing at least 1A on the +5VSB lead. Disabled Disables this function.

(Default) Move Move the mouse to turn on the system. Double Click Double click on left button on the mouse to turn on the system. Determines whether to let the system consume least power in S5 (shutdown) state. (Default: Disabled) Note: When this item is set to Enabled, the following functions will become unavailable: PME event wake up, power on by mouse, power on by keyboard, and wake on LAN. && Power On Password && Power On By Mouse && ErP 2-7 Save & Exit - 28 - && Save & Exit Setup && Exit Without Saving Press <Enter> on this item and select Yes.

This saves the changes to the CMOS and exits the BIOS Setup program. Select No or press <Esc> to return to the BIOS Setup Main Menu. Press <Enter> on this item and select Yes. This exits the BIOS Setup without saving the changes made in BIOS Setup to the CMOS. Select No or press <Esc> to return to the BIOS Setup Main Menu.

Press <Enter> on this item and select Yes to load the optimal BIOS default settings. The BIOS defaults settings help the system to operate in optimum state.

Always load the Optimized defaults after updating the BIOS or after clearing the CMOS values. Allows you to select a device to boot immediately. Press <Enter> on the device you select and select Yes to confirm. Your system will restart automatically and boot from that device. This function allows you to save the current BIOS settings to a profile. You can create up to 8 profiles and save as Setup Profile 1~ Setup Profile 8. Press <Enter> to complete. Or you can select Select File in HDD/USB/FDD to save the profile to your storage device.

If your system becomes unstable and you have loaded the BIOS default settings, you can use this function to load the BIOS settings from a profile created before, without the hassles of reconfiguring the BIOS settings. First select the profile you wish to load and then press <Enter> to complete. You can select Select File in HDD/USB/FDD to input the profile previously created from your storage device or load the profile automatically created by the BIOS, such as reverting the BIOS settings to the last settings that worked properly (last known good record). && Load Optimized Defaults && Boot Override && Save Profiles && Load Profiles Chapter 3 Appendix Drivers Installation •• Before installing the drivers, first install the operating system. (The following instructions use Windows 8.1 as the example operating system.) •• After installing the operating system, insert the motherboard driver disk into your optical drive. Click on the message "Tap to choose what happens with this disc" on the top-right corner of the screen and select "Run Run.exe." (Or go to My

Computer, double-click the optical drive and execute the Run.

exe program.) "Xpress Install" will automatically scan your system and then list all of the drivers that are recommended to install. You can click the Xpress Install button and "Xpress Install" will install all of the selected drivers. Or click the arrow icon to individually install the drivers you need. For more software information, please visit GIGABYTE's website.

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With your help, we can reduce the amount of natural resources needed to produce electrical and electronic equipment, minimize the use of landfills for the disposal of "end of life" products, and generally improve our quality of life by ensuring that potentially hazardous substances are not released into the environment and are disposed of properly.

- 30 - FCC Notice (U.S.A. Only) This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: □□ Reorient or relocate the receiving antenna. □□ Increase the separation between the equipment and receiver. □□ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

□□ Consult a dealer or experienced TV/radio technician for help. Canada, Industry Canada (IC) Notices / Canada, avis d'Industry Canada (IC) □□ This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. □□ Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. □□ Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210. □□ Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

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