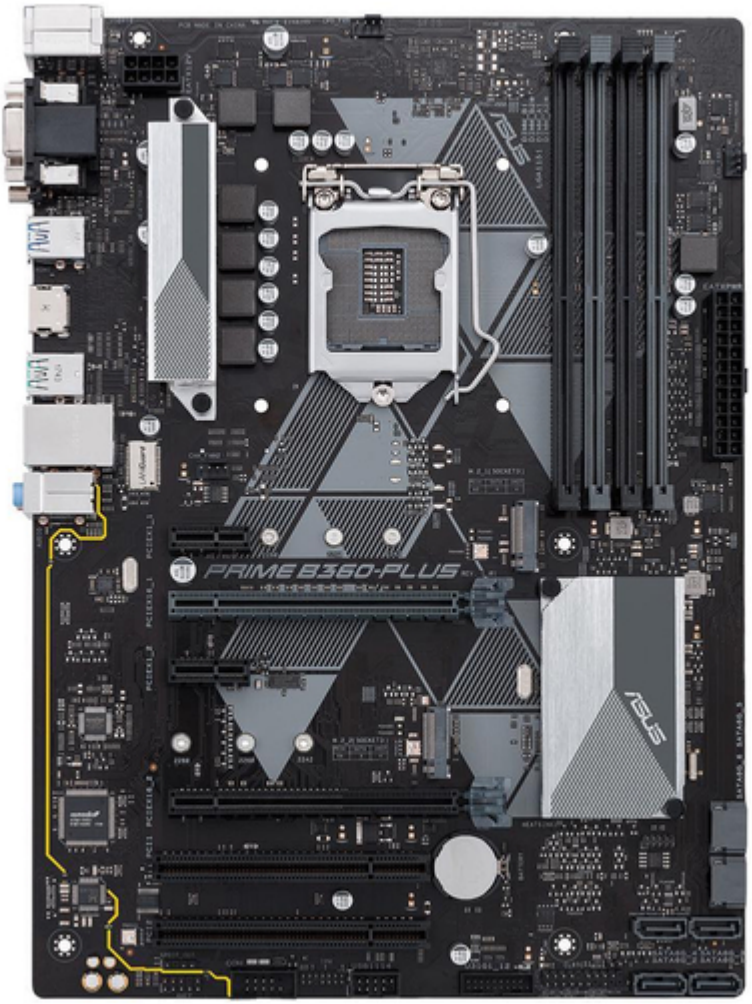
PRIME B360-PLUS

Asus PRIME B360-PLUS Manual

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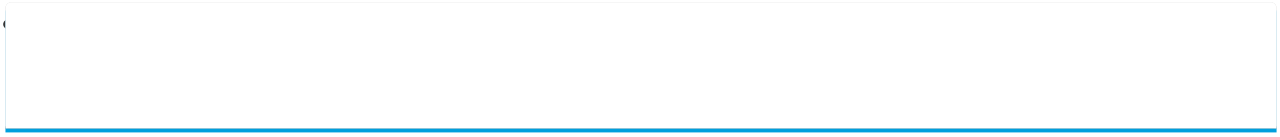

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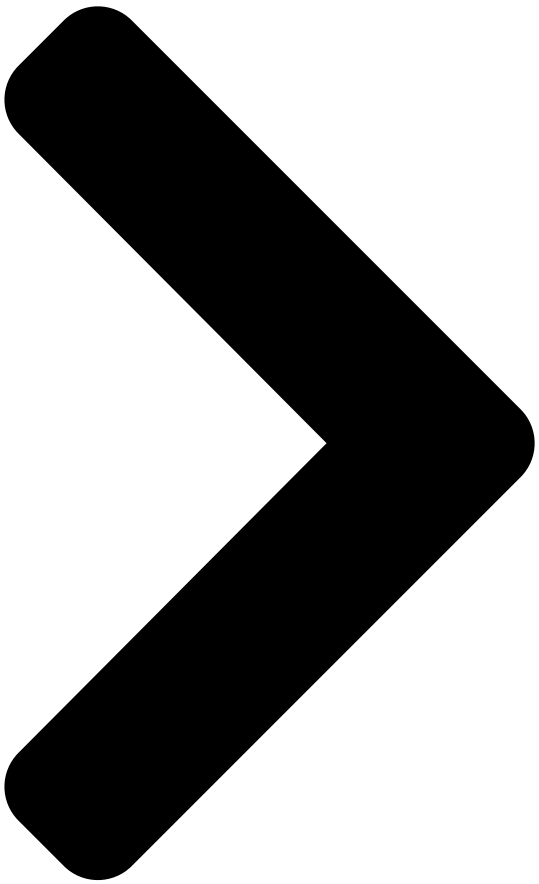

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Motherboard Asus Prime B360-PLUS Quick Start Manual

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(36 pages)

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Summary of Contents for Asus PRIME B360-PLUS

Page 1 PRIME B360-PLUS...

Page 2 Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification of alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

Page 3: Table Of Contents

Contents Safety information ..... iv About this guide .....iv Package contents ..... vi PRIME B360-PLUS specifications summary .....vi Chapter 1: Product introduction Before you proceed .....1-1 Motherboard overview 1-1

Central Processing Unit (CPU).....1-8 System memory ..... 1-9...

Page 4: Safety Information

Safety information Electrical safety • To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system. • When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.

Page 5 Refer to the following sources for additional information and for product and software updates. ASUS websites The ASUS website provides updated information on ASUS hardware and software products. Refer to the ASUS contact information. Optional documentation Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer.

Page 6: Package Contents

** DDR4 2666MHz and higher memory modules will run at max. 2666MHz on Intel ® 8th Generation 6-core or higher processors. *** Refer to www.asus.com for the latest Memory QVL (Qualified Vendors List). 1 x PCI Express 3.0/2.0 x16 slot (at x 16 mode) Expansion slots 1 x PCI Express 3.0/2.0 x16 slot (max.

Page 7 ASUS unique features - ASUS SafeSlot Core: Fortified PCIe Slot prevents damage - ASUS LANGuard: Protects against LAN surges, lightning strikes and static- electricity discharges! - ASUS Overvoltage Protection: World-class circuit-protecting power design - ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!

Page 8 PRIME B360-PLUS specifications summary Gaming Scenario ASUS unique features Audio Features - Audio that roars on the battlefield ASUS Exclusive Features - ASUS Ai Charger - ASUS AI Suite 3 - ASUS File Transfer - ASUS PC Cleaner EZ DIY...

Page 9 BIOS features 128 Mb Flash ROM, UEFI AMI BIOS, PnP, SM BIOS 3.1, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F6 Qfan Control, F3 My Favorites, Last Modified log, F12 PrintScreen, and ASUS DRAM SPD...

Page 10: Before You Proceed

2242 PCIEX1_1 PRIME B360-PLUS 8111H PCIEX16_1 PCIEX1_2 Intel ® B360 Super 2280 2260 2242 M.2_2(SOCKET3) PCIE SATA IRST PCIEX16_2 1083 BATTERY PCI1 128Mb BIOS 887-VD2 PCI2 SATA6G_4 SATA6G_3 SPDIF_OUT CLRTC USB1114 SATA6G_2 SATA6G_1 U31G1_12 AAFP PANEL Scan the QR code to get the detailed pin definitions. ASUS PRIME B360-PLUS...

Page 11 • If you are uncertain about the minimum power supply requirement for your system, refer to the Recommended Power Supply Wattage Calculator at http://support.asus.com.cn/PowerSupply.aspx?SLanguage=en for details. CPU and chassis fan connectors (4-pin CPU_FAN, 4-pin CHA_FAN1~2) Connect the fan cables to the fan connectors on the motherboard, ensuring that the black wire of each cable matches the ground pin of the connector.

Page 12 B360 Serial ATA 6.0Gb/s connectors (7-pin SATA6G_1~6) ® These connectors connect to Serial ATA 6.0 Gb/s hard disk drives via Serial ATA 6.0 Gb/s signal cables. Clear RTC RAM (2-pin CLRTC) CLRTC This header allows you to clear the CMOS RTC RAM data of the system setup information such as date, time, and system passwords. To erase the RTC RAM: PIN 1 Turn OFF the computer and unplug the power cord. Use a metal object such as a screwdriver to short the two pins. Plug the power cord and turn ON the computer. Hold down the <Del> key during the boot process and enter BIOS setup to re-enter data. If the steps above do not help, remove the onboard battery and short the two pins again to clear the CMOS RTC RAM data. After clearing the CMOS, reinstall the battery. ASUS PRIME B360-PLUS...

Page 13 System panel connector (20-5 pin F_PANEL) PANEL This connector supports several chassis-mounted +PWR_LED- SPEAKER PWR_SW functions. • System power LED (4-pin +PWR_LED-) This 4-pin connector is for the system power LED. PIN 1 Connect the chassis power LED cable to this connector. The system power LED lights up when you turn on the system power, and blinks when +HDD_LED- RESET +PWR_LED- the system is in sleep mode. * Requires an ATX power supply • Hard disk drive activity LED (2-pin +HDD_LED-) This 2-pin connector is for the HDD Activity LED. Connect the HDD Activity LED cable to this connector. The HDD LED

lights up or flashes when data is read from or written to the HDD. •...

Page 14 PCIe 3.0 x16_1 (gray) PCIe 3.0 x16_2 x16 (Recommended for single Single VGA/PCIe card VGA card) Dual VGA/PCIe cards • In single VGA card mode, use the PCIe 3.0 x16_1 slot (gray) for a PCI Express x16 graphics card to get better performance. • We recommend that you provide sufficient power when running CrossFireX™ mode. • Connect a chassis fan to the motherboard connector labeled CHA_FAN1/2 when using multiple graphics cards for better thermal environment. PCI Express 3.0/2.0 x1 slots This motherboard has two PCI Express 3.0/2.0 x1 slots that support PCI Express x1 network cards, SCSI cards, and other cards that comply with the PCI Express specifications. The PCIe x1_1 and PCIe x1_2 slots share bandwidth with the PCIe x16_2 slot. The PCIe x16_2 slot runs at x2 mode as default. Please check BIOS for more configuration. ASUS PRIME B360-PLUS...

Page 15 Rear panel connectors PS/2 keyboard/mouse combo port. This port is for a PS/2 mouse or keyboard. Video Graphics Adapter (VGA) port. This 15-pin port is for a VGA monitor or other VGA-compatible devices. LAN (RJ-45) port. This port allows Gigabit connection to a Local Area Network (LAN) through a network hub. Refer to the table below for the LAN port LED indications. LAN port LED indications Speed Activity Link Activity/Link LED Speed LED Status Description Status Description No link...

Page 16 USB 3.1 Gen 2 (up to 10Gbps) ports (teal blue, Type A). These 9-pin Universal Serial Bus 3.1 (USB 3.1) ports are for USB 3.1 Gen 2 devices. • USB 3.1 Gen 2 / Gen 1 devices can only be used for data storage. • Due to the design of the Intel 300 series chipset, all USB devices connected to the ® USB 2.0 and USB 3.1 Gen 2 / Gen 1 ports are controlled by the xHCI controller. Some legacy USB devices must update their firmware for better compatibility. • We strongly recommend that you connect USB 3.1 Gen 2 devices to USB 3.1 Gen 2 ports for faster and better performance from your USB 3.1 Gen 2 devices. HDMI port. This port is for a High-Definition Multimedia Interface (HDMI) connector, and is HDCP compliant allowing playback of HD DVD, Blu-ray, and other protected content. USB 3.1 Gen 1 (up to 5Gbps) ports. These 9-pin Universal Serial Bus (USB) ports connect to USB 3.1 Gen 1 devices. DVI-D port. This port is for any DVI-D compatible device. DVI-D can not be converted to output from RGB Signal to CRT and is not compatible with DVI-I. ASUS PRIME B360-PLUS...

Page 17: Central Processing Unit (Cpu)

• Ensure that you install the correct CPU designed for the LGA1151 socket only. DO NOT install a CPU designed for LGA1150, LGA1155 and LGA1156 sockets on the LGA1151 socket. • Upon purchase of the motherboard, ensure that the PnP cap is on the socket and the socket contacts are not bent. Contact your retailer immediately if the PnP cap is missing, or if you see any damage to the PnP cap/socket contacts/motherboard components. • Keep the cap after installing the motherboard. ASUS will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the LGA1151 socket. • The product warranty does not cover damage to the socket contacts resulting from incorrect CPU installation/removal, or misplacement/loss/incorrect removal of the PnP cap. Installing the CPU Apply the Thermal Interface Material to the CPU heatsink and CPU before you install the heatsink and fan if necessary. Chapter 1: Product introduction...

Page 18: System Memory

DIMM_A2* • You may install varying memory sizes in Channel A and Channel B. The system maps the total size of the lower-sized channel for the dual-channel configuration. Any excess memory from the higher-sized channel is then mapped for single-channel operation. • Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules. • DDR4 2666MHz and higher memory modules will run at max. 2666MHz on Intel ® Generation 6-core or higher processors. • Memory modules with memory frequency higher than 2133 MHz and its corresponding timing or the loaded X.M.P. Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices. • The default memory operation frequency is dependent on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value. • For system stability, use a more efficient memory cooling system to support a full memory load (4 DIMMs). • Refer to www.asus.com for the latest Memory QVL (Qualified Vendors List) Recommended memory configurations DIMM_B1 DIMM_B2* DIMM_B2* DIMM_A1 DIMM_A2* DIMM_A2* DIMM_A2* ASUS PRIME B360-PLUS...

Page 19 Installing a DIMM To remove a DIMM Chapter 1: Product introduction 1-10...

Page 20: Chapter 2: Bios Information

To enter BIOS Setup after POST: • Press <Ctrl>+<Alt>+<Del> simultaneously. • Press the reset button on the system chassis. • Press the power button to turn the system off then back on. Do this option only if you failed to enter BIOS Setup using the first two options. Using the power button, reset button, or the <Ctrl>+<Alt>+<Del> keys to force reset from a running operating system can cause damage to your data or system. We recommend you always shut down the system properly from the operating system. • The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen. • Visit the ASUS website at www.asus.com to download the latest BIOS file for this motherboard. • If the system becomes unstable after changing any BIOS setting, load the default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu or press hotkey F5. • If the system fails to boot after changing any BIOS setting, try to clear the CMOS and reset the motherboard to the default value. See section Motherboard overview for information on how to erase the RTC RAM. BIOS menu screen The BIOS setup program can be used under two modes: EZ Mode and Advanced Mode. Press <F7> to change between the two modes. ASUS PRIME B360-PLUS...

Page 21: Ez Mode

EZ Mode By default, the EZ Mode screen appears when you enter the BIOS setup program. The EZ Mode provides you an overview of the basic system information, and allows you to select the display language, system performance mode and boot device priority. To access the Advanced Mode, click Advanced Mode or press <F7> for the advanced BIOS settings. The default screen for entering the BIOS setup program can be changed. Displays the CPU/motherboard Displays the system properties of the temperature, CPU voltage output, selected mode. Click <Enter> to switch CPU/chassis fan speed, and EZ System Tuning modes SATA information Searches by BIOS item name, enter the item name to find the Selects the display language of related item listing...

Page 22: Advanced Mode

Search Scroll bar Menu bar Sub-menu item Search on FAQs Configuration General help Last modified fields settings Hot Keys Menu items Goes back to EZ Mode Pop-up window Displays the CPU temperature, CPU and memory voltage output ASUS PRIME B360-PLUS...

Page 23: Exit Menu

Search on FAQ Move your mouse over this button to show a QR code. Scan this QR code with your mobile device to connect to the ASUS BIOS FAQ web page. You can also scan the QR code below. Exit menu The Exit menu items allow you to load the optimal default values for the BIOS items, and save or discard your changes to the BIOS items. You can access the EZ Mode from the Exit menu. Load Optimized Defaults This option allows you to load the default values for each of the parameters on the Setup menus. When you select this option or if you press <F5>, a confirmation window appears. Select OK to load the default values. Save Changes & Reset Once you are finished making your selections, choose this option from the Exit menu to ensure the values you selected are saved. When you select this option or if you press <F10>, a confirmation window appears. Select OK to save changes and exit. Discard Changes and Exit This option allows you to exit the Setup program without saving your changes. When you select this option or if you press <Esc>, a confirmation window appears. Select OK to discard changes and exit. Launch EFI Shell from USB drives This option allows you to attempt to launch the EFI Shell application (shellx64.efi) from one of the available USB devices. Chapter 2: BIOS information...

Page 24: Appendix

: (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement. CAN ICES-3(B)/NMB-3(B) ASUS PRIME B360-PLUS...

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ASUS Recycling/Takeback Services ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials.

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Page 27: Asus Contact Information

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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. Ver. 170324 ASUS PRIME B360-PLUS...

This manual is also suitable for:

Prime h370-plus