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› ASHATA H61 LGA 1155 Gaming ATX Motherboard User Manual

ASHATA ASHATAbkfrg4783x

ASHATA H61 LGA 1155 Gaming ATX Motherboard User Manual

Model: ASHATAbkfrg4783x

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ASHATA H61 LGA 1155 Gaming ATX Motherboard. Please read this document thoroughly before proceeding with any installation or configuration to ensure proper usage and optimal performance.



Image: Top-down view of the ASHATA H61 LGA 1155 Motherboard, showcasing the CPU socket, RAM slots, and various connectors.



Image: Angled view of the ASHATA H61 LGA 1155 Motherboard, highlighting its compact ATX form factor and component layout.

IMPORTANT SAFETY INFORMATION



1. Warning

Please read the product instructions carefully before use to ensure correct use.

2. Warnung

Bitte lesen Sie das Produkthandbuch vor dem Gebrauch sorgfältig durch, um sicherzustellen, dass es korrekt und gemäß den Anweisungen verwendet wird.

3. Avertissement

Euillez lire attentivement les instructions du produit avant utilisation pour garantir une utilisation correcte selon les instructions.

4. Advertencia

Por favor, lea detenidamente el manual del producto antes de usarlo para asegurarse de seguir correctamente las instrucciones.

5. Ostrzeżenie

Przed użyciem prosimy dokładnie przeczytać instrukcję obsługi produktu, aby upewnić się, że są przestrzegane poprawne wskazówki dotyczące użytkowania.

6. Waarschuwing

Lees voor gebruik aandachtig de handleiding van het product om er zeker van te zijn dat het correct en in overeenstemming met de instructies wordt gebruikt.

7. Varning

Läs bruksanvisningen noggrant före användning för att säkerställa att produkten används på rätt sätt och i enlighet med instruktionerna.

8. Attenzione

Leggere attentamente il manuale del prodotto prima dell'uso per garantire il corretto utilizzo delle istruzioni.

9. Uyarı

Lütfen doğru kullanım talimatlarını sağlamak için kullanmadan önce ürün kılavuzunu dikkatlice okuyun.

Image: A warning graphic indicating the importance of reading product instructions carefully before use to ensure correct usage.

Always handle the motherboard with care. Static electricity can damage electronic components. Use an anti-static wrist strap or discharge static electricity by touching a grounded metal object before handling the motherboard. Ensure the power supply is disconnected before installing or removing any components.

SPECIFICATIONS



DESKTOP MOTHERBOARD

LGA 1155 CPU Slot

Dual Channel DDR3 Memory Slot

Support 2 8GB DDR3 Non ECC memory and 1066/1333/1600MHz active frequency standard, with a maximum memory capacity of 16GB.

high speed M.2 hard disk interface

support dual mode NVME NGFF

3 phase power supply, all solidstate capacitor design

support VGA and HD Multimedia Interface output

Image: Visual representation of the motherboard highlighting key features such as CPU slot, memory, and storage interfaces.

- **CPU Socket:** LGA 1155, supporting Intel 2nd Generation Core i3/i5/i7, Pentium, and Celeron series processors.
- **Memory:** 2 x DDR3 Non-ECC DIMM slots, supporting 1066/1333/1600MHz. Maximum capacity of 16GB (2x8GB).
- **Storage:** 3 x SATA2.0 ports, 1 x M.2 NVMe NGFF slot (supports high-speed PCIe hard disk switch and SATA2.0 channel via jumper wire).
- **Expansion Slots:** 1 x PCIe 3.0 x16 slot, 1 x PCIe x1 slot.
- **Video Output:** VGA, HD Multimedia Interface (HDMI).
- **USB Ports:** 6 x USB 2.0 ports (rear I/O and internal headers).
- **LAN:** 100Mbps Ethernet.
- **Audio:** 6-channel HD audio output.
- **Power Supply:** 24+4pin power socket, 3-phase power supply, all solid-state capacitor design.
- **Form Factor:** Micro ATX (Product Dimensions: 6.69 x 6.69 x 6.7 inches).

Detailed Specifications Table

Feature	Detail
CPU Socket	LGA 1155
Compatible Processors	Intel Celeron, Intel Pentium, Intel Core i3/i5/i7 (2nd Gen)
RAM Memory Technology	DDR3 Non-ECC
Memory Clock Speed	1066/1333/1600 MHz
Max Memory Capacity	16GB
Chipset Type	Intel H61 Express
Storage Interfaces	3 x SATA2.0, 1 x M.2 NVMe NGFF
Graphics Card Slot	1 x PCIe 3.0 x16
Expansion Slots	1 x PCIe x1
Video Output Ports	VGA, HDMI
USB Ports	6 x USB 2.0
LAN Speed	100Mbps
Audio Output	6-channel HD
Power Connector	24+4pin
Form Factor	Micro ATX
Product Dimensions	6.69 x 6.69 x 6.7 inches
Item Weight	1.08 pounds

SETUP GUIDE

This section outlines the steps for installing components onto your motherboard. Ensure all power is disconnected from your system before beginning installation.

Motherboard Layout

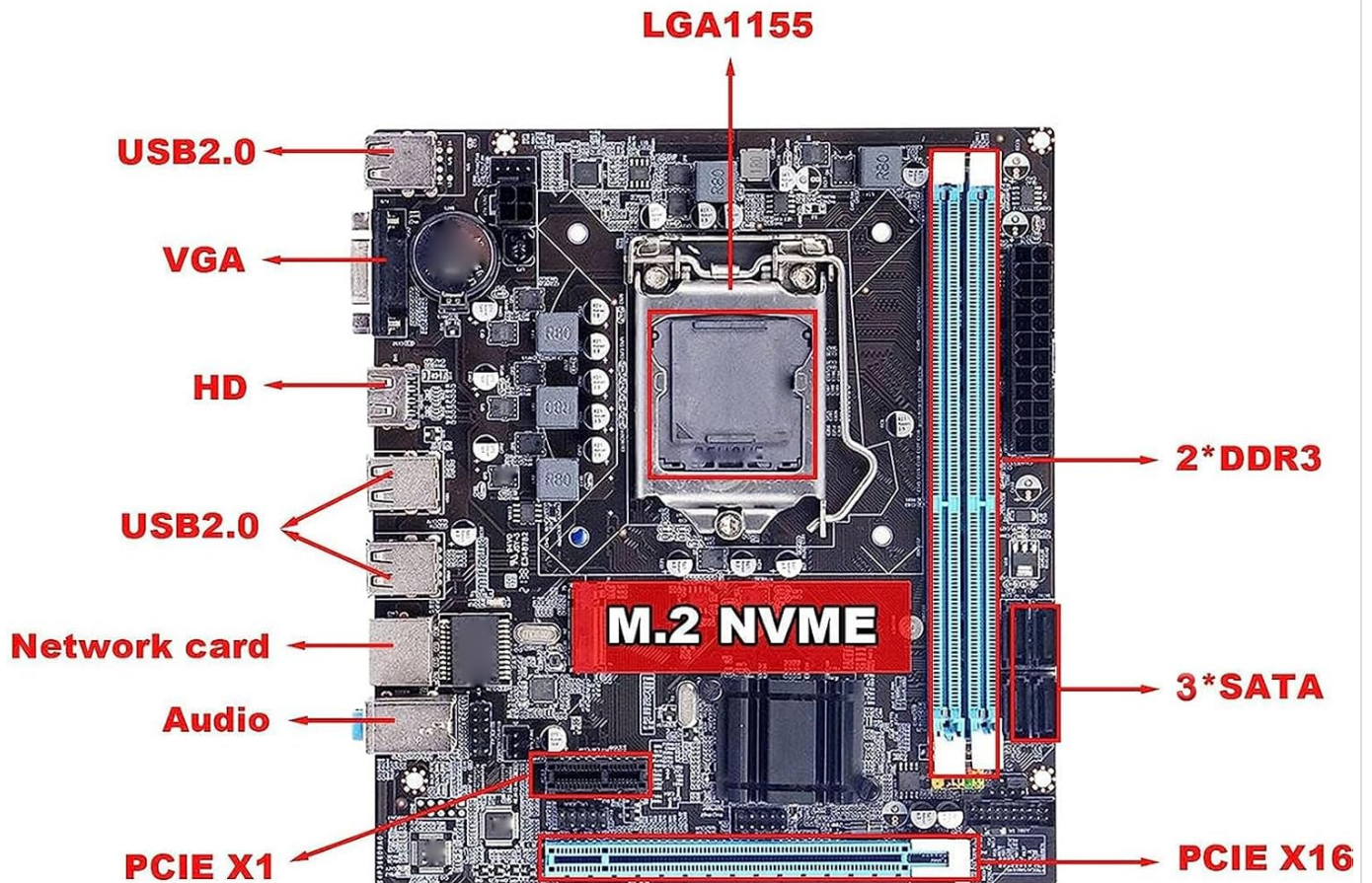


Image: Diagram illustrating the layout of the ASHATA H61 motherboard with key components and ports labeled for easy identification.

1. CPU Installation

1. Locate the LGA 1155 CPU socket on the motherboard.
2. Gently push down the load lever and pull it to the side to open the CPU socket cover.
3. Carefully align the notches on your LGA 1155 CPU with the corresponding keys on the socket. Ensure the CPU is oriented correctly.
4. Place the CPU into the socket without forcing it. It should sit flush.
5. Close the socket cover and push the load lever back into its locked position.
6. Install the CPU cooler according to its manufacturer's instructions.

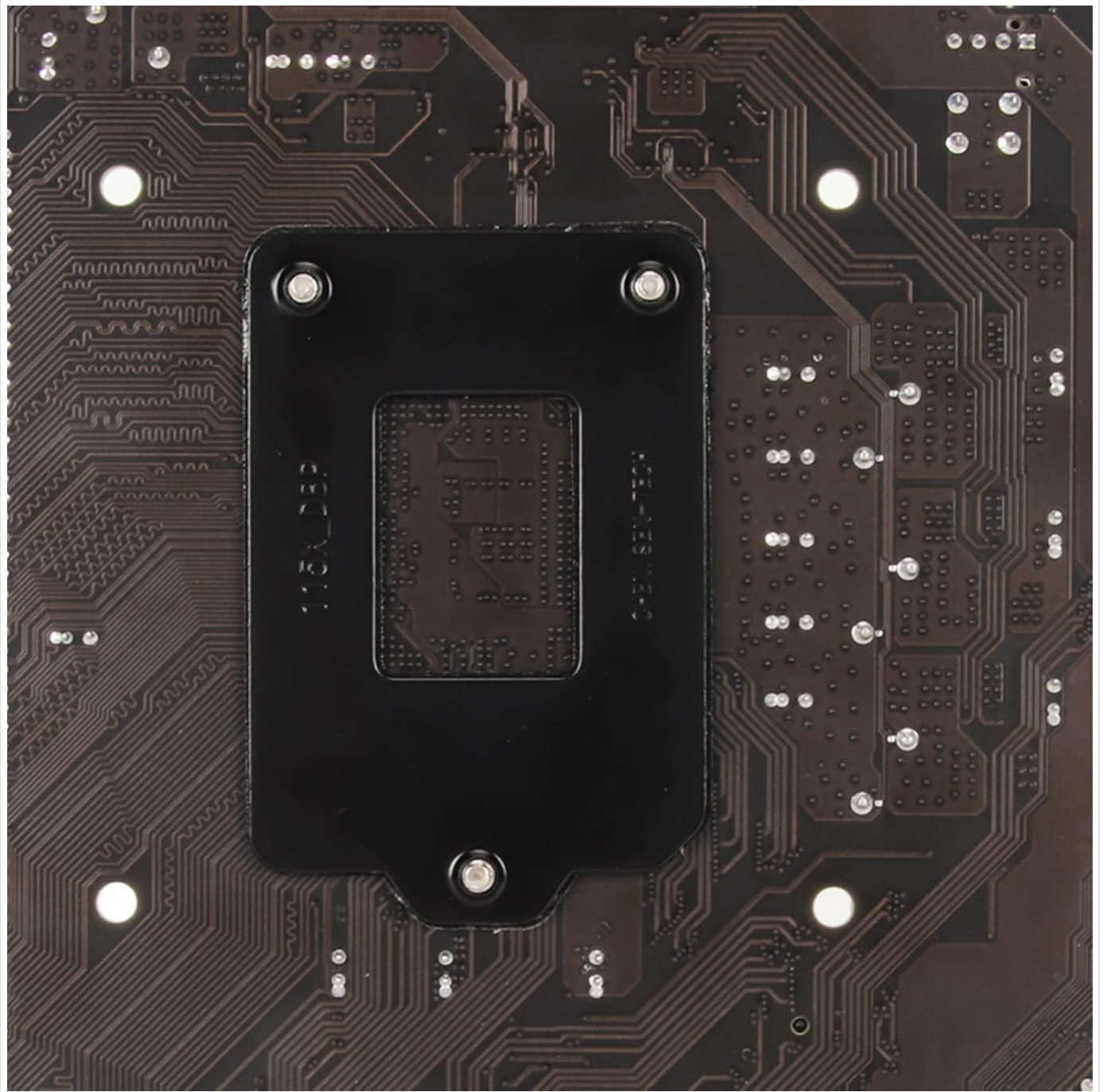


Image: The underside of the motherboard showing the CPU socket backplate, which provides support for CPU cooler mounting.

2. RAM Installation

1. Locate the two DDR3 DIMM slots.
2. Open the clips at both ends of the memory slot.
3. Align the notch on the DDR3 memory module with the key in the DIMM slot.
4. Insert the memory module firmly into the slot until the clips snap into place, securing the module.
5. Repeat for the second memory module if installing two.



Image: Close-up view of the DDR3 RAM slots and various front panel headers on the motherboard.

3. Storage Device Installation

SATA Drives

1. Connect one end of a SATA data cable to a SATA2.0 port on the motherboard.
2. Connect the other end of the SATA data cable to your hard drive or SSD.
3. Connect a SATA power cable from your power supply to the hard drive or SSD.

M.2 NVMe/NGFF SSD

1. Locate the M.2 slot on the motherboard.
2. Insert the M.2 SSD into the slot at a 30-degree angle.
3. Gently push down the SSD and secure it with the provided screw.
4. If necessary, adjust the jumper wire near the M.2 slot to select between NVMe (PCIe) or NGFF (SATA) mode, depending on your M.2 SSD type. Refer to the motherboard diagram for jumper location.

4. Power Connections

1. Connect the 24-pin ATX power connector from your power supply to the main 24-pin power socket on the motherboard.

2. Connect the 4-pin ATX 12V power connector from your power supply to the 4-pin power socket near the CPU.

5. Graphics Card Installation

1. Locate the PCIe 3.0 x16 slot.
2. Remove the corresponding expansion slot cover from your PC case.
3. Align your graphics card with the PCIe x16 slot and press it firmly until it is seated correctly and the retention clip locks into place.
4. Secure the graphics card to the case with a screw.
5. Connect any necessary PCIe power cables from your power supply to the graphics card.

6. Peripheral Connections (Rear I/O and Front Panel)

Connect your peripherals to the appropriate ports on the rear I/O panel and connect your case's front panel cables to the motherboard headers.

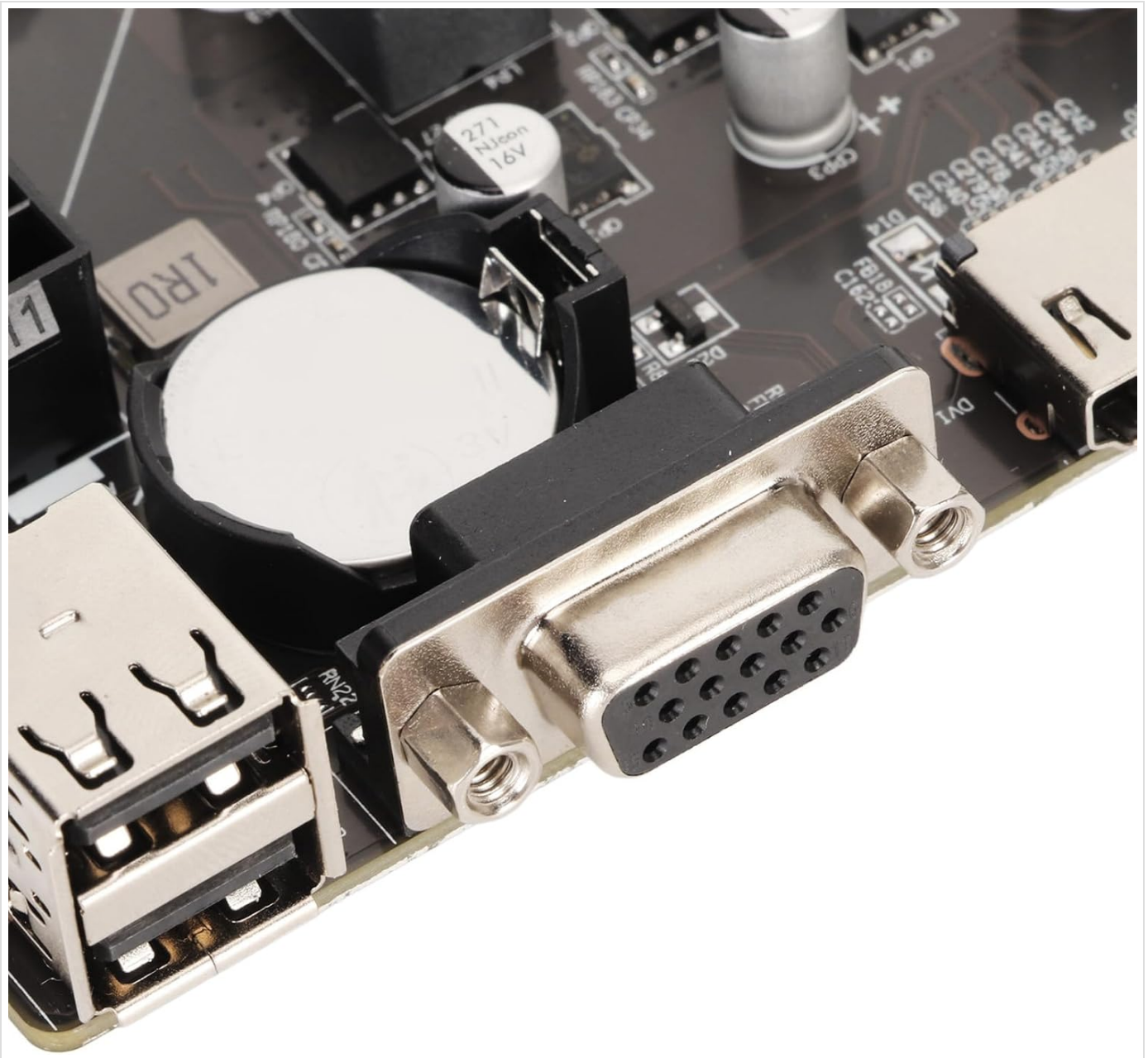


Image: Close-up view of the motherboard's rear input/output panel, showing the VGA and USB 2.0 ports.

- **USB Ports:** Connect USB devices (keyboard, mouse, etc.) to the USB 2.0 ports.
- **Video Output:** Connect your monitor to either the VGA or HDMI port.

- **LAN Port:** Connect an Ethernet cable for network access.
- **Audio Jacks:** Connect speakers, headphones, or microphones to the audio jacks.
- **Front Panel Headers:** Connect your case's power button, reset button, HDD LED, power LED, and front USB/audio ports to the corresponding headers on the motherboard. Refer to the motherboard layout diagram for header locations.

OPERATING INSTRUCTIONS

1. Initial Boot-up

1. After all components are installed and connected, connect the power cable to your power supply and turn on the power switch.
2. Press the power button on your PC case.
3. The system should power on, and you should see a display on your monitor. If not, refer to the Troubleshooting section.

2. BIOS/UEFI Configuration

To enter the BIOS/UEFI setup, press the designated key (usually **DEL** or **F2**) repeatedly during the initial boot sequence. Within the BIOS/UEFI, you can configure various system settings.

- **Boot Order:** Set the boot priority for your operating system drive.
- **Date and Time:** Adjust the system date and time.
- **System Information:** View details about your installed CPU, RAM, and other hardware.
- **Fan Control:** This motherboard may have limited or no fan speed control options within the BIOS. Users have reported that fans may operate at 100% speed without adjustable control.
- **M.2 Mode:** Ensure the M.2 slot is configured correctly for NVMe or NGFF mode if you are using an M.2 SSD.
- **UEFI/Legacy Boot:** Configure boot mode as required by your operating system. This motherboard supports UEFI, TPM, and Secure Boot.

3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's components (chipset, LAN, audio, etc.). These drivers are typically available on the manufacturer's website or included on a driver CD (if provided). Ensure you install the correct drivers for your operating system version.

MAINTENANCE

1. Cleaning

- Regularly clean dust from your computer case and motherboard components using compressed air.
- Ensure the system is powered off and unplugged before cleaning.
- Avoid using liquid cleaners directly on components.

2. BIOS Updates

Periodically check the manufacturer's website for BIOS updates. BIOS updates can improve system stability, compatibility, and performance. Follow the instructions provided by the manufacturer carefully when performing a BIOS update, as an incorrect update can render the motherboard inoperable.

TROUBLESHOOTING

If you encounter issues with your motherboard, refer to the following common troubleshooting steps:

- **No Power/No Boot:**

- Ensure all power cables (24-pin ATX, 4-pin CPU, PCIe power) are securely connected.
- Verify the power supply is functioning correctly.
- Check front panel connections (power button, reset button).
- Try booting with minimal components (CPU, one RAM stick, GPU if no integrated graphics) to isolate the issue.

- **No Display/No Splash Screen:**

- Ensure your monitor is connected to the correct video output port (VGA or HDMI) on the motherboard or graphics card.
- Reseat the graphics card and RAM modules.
- Test with a different monitor or cable if possible.
- If using a dedicated graphics card, ensure it is properly powered.

- **System Instability/Crashes:**

- Check RAM modules for proper seating.
- Ensure CPU cooler is properly installed and making good contact.
- Verify all drivers are installed and up to date.
- Check for overheating issues (monitor CPU/GPU temperatures).

- **Fan Noise:**

- Some users have reported that this motherboard may not offer fan speed control, leading to fans running at 100% speed. This is a characteristic of the motherboard's design and may not be resolvable through software or BIOS settings.

- **M.2 SSD Not Detected:**

- Ensure the M.2 SSD is fully seated in the slot.
- Verify the M.2 jumper setting is correct for NVMe or NGFF mode.
- Check BIOS settings to ensure the M.2 slot is enabled and configured correctly.

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. ASHATA products typically come with a standard manufacturer's warranty. For technical support, please contact the seller or refer to the ASHATA official support channels if available.

It is recommended to keep your proof of purchase for warranty claims.

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