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› [MINISFORUM](#) /

› MINISFORUM BD775i SE Motherboard Instruction Manual

MINISFORUM BD775i SE

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INTRODUCTION


The MINISFORUM BD775i SE Motherboard is a compact and powerful solution designed for various computing needs, from gaming systems to content creation workstations. Featuring the AMD Ryzen 7 7745HX processor, DDR5 memory support, and extensive connectivity, this motherboard provides a robust foundation for your custom PC build. This instruction manual provides essential information for setting up, operating, and maintaining your motherboard to ensure optimal performance and longevity.





An overview of the MINISFORUM BD775i SE Motherboard, showcasing its compact design and integrated components.

Expand More. Install Faster

Adjust Fan Speed in Bios

 CPU Fan

 Chassis Fan

 BIOS-Level Fan Control

PCIe 4.0 M.2
(80mm PCIe 4.0 x4)

PCIe 4.0 M.2
(80mm PCIe 4.0 x4)

PCIe 5.0 X16 x1

This image provides an overview of the MINISFORUM BD775i SE motherboard's key features, including the AMD Ryzen 7 7745HX mobile processor, ITX form factor, DDR5 5200MHz memory support up to 96GB, dual M.2 PCIe 4.0 slots, and a PCIe 5.0 x16 slot.

SETUP

This section guides you through the physical installation and initial configuration of your MINISFORUM BD775i SE motherboard. Proper installation is crucial for system stability and performance. Please ensure your system is powered off and disconnected from the power source before beginning any installation steps.

Unboxing and Component Identification

Familiarize yourself with the contents of your package and the layout of the motherboard.

This video demonstrates the unboxing experience of a similar MINISFORUM motherboard (BD795i SE), showcasing the contents of the package. The unboxing process is generally applicable to the BD775i SE.



This diagram illustrates the key components and headers on the MINISFORUM BD775i SE motherboard, including USB 3.2 Gen1 header, System Panel header, 4-pin SYS Fan headers, 24-pin Main Power connector, Front Panel Audio header, M.2 2280 PCIe 4.0 SSD Slots, DDR5 SO-DIMM Slots, PCIe 5.0 x16 Slots, 8-pin CPU Power connector, and 4-pin CPU Fan header.

Installation Steps

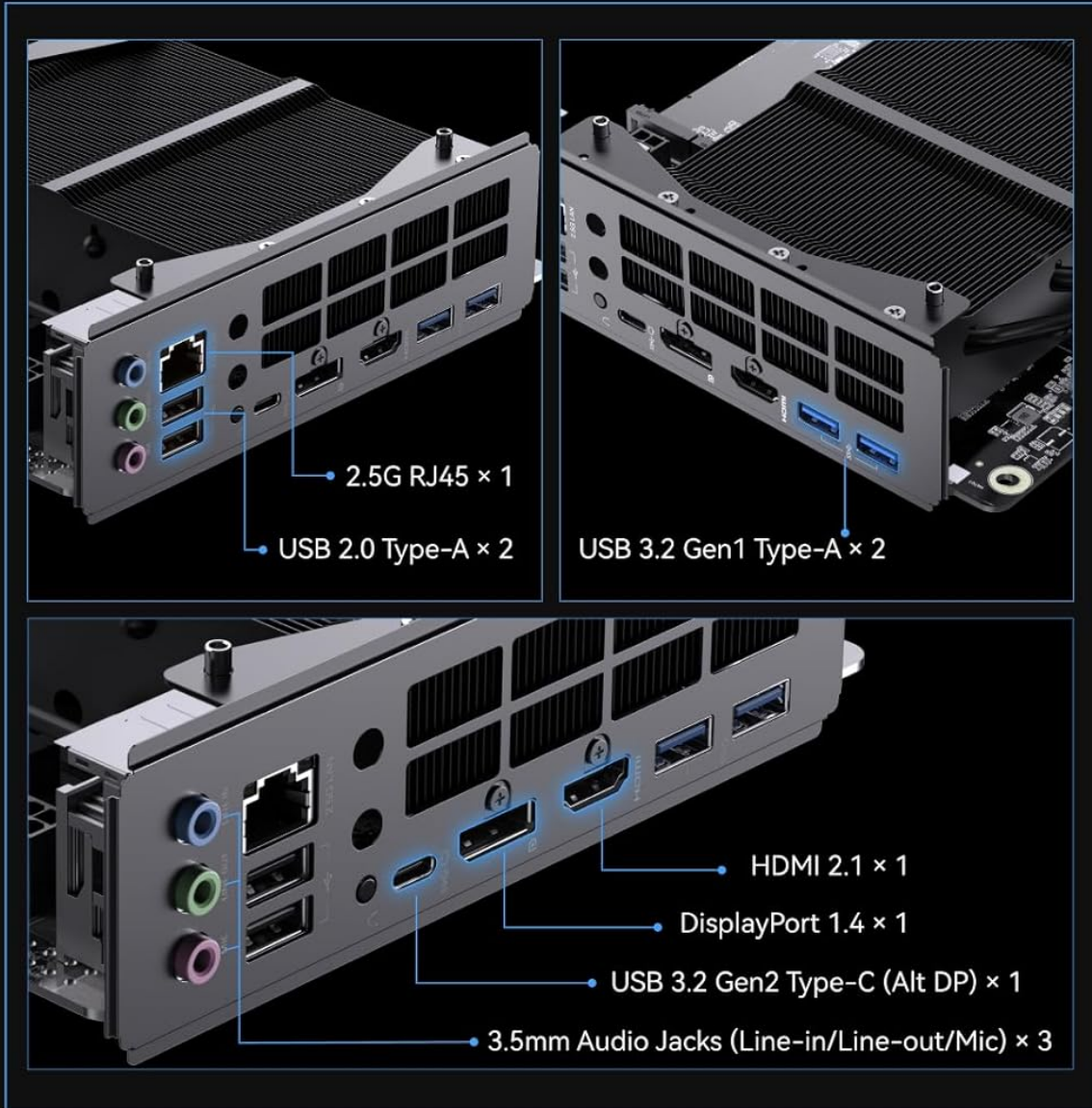
Follow these general steps for installing your motherboard and its components:

1. **Prepare the Case:** Install the I/O shield into your PC case.
2. **Install the Motherboard:** Carefully place the motherboard into the case, aligning it with the standoffs. Secure it with screws.
3. **Install RAM:** Open the clips on the DDR5 SO-DIMM slots, insert the memory modules firmly until the clips snap into place.
4. **Install M.2 SSDs:** Insert M.2 2280 SSDs into the PCIe 4.0 M.2 slots and secure them with the provided screws.
5. **Connect Power:** Connect the 24-pin main power connector and the 8-pin CPU power connector from your power supply to the motherboard.
6. **Connect Front Panel Headers:** Connect the system panel header (power button, reset button, LED indicators) and front panel audio header. Refer to the motherboard layout diagram for correct pin alignment.
7. **Connect Fans:** Connect CPU and case fans to their respective 4-pin headers.
8. **Install Graphics Card (Optional):** If using a dedicated graphics card, install it into the PCIe 5.0 x16 slot and secure it.
9. **Connect Peripherals:** Connect USB devices, display cables (HDMI, DisplayPort, USB-C), and Ethernet cable to the rear I/O ports.

This video provides a step-by-step guide on how to install a similar MINISFORUM motherboard (BD795i SE), covering component placement and connections. The installation process is generally applicable to the BD775i SE.

Rich Connectivity

Loaded with high-speed USB ports (including USB-C), dual video outputs (HDMI 2.1 & DP 1.4), a 2.5G Ethernet jack, and multi-channel audio



This image highlights the rich connectivity options available on the MINISFORUM BD775i SE motherboard, detailing the rear I/O ports including USB 2.0 Type-A, USB 3.2 Gen1 Type-A, 2.5G RJ45, HDMI 2.1, DisplayPort 1.4, USB 3.2 Gen2 Type-C (Alt DP), and 3.5mm audio jacks.

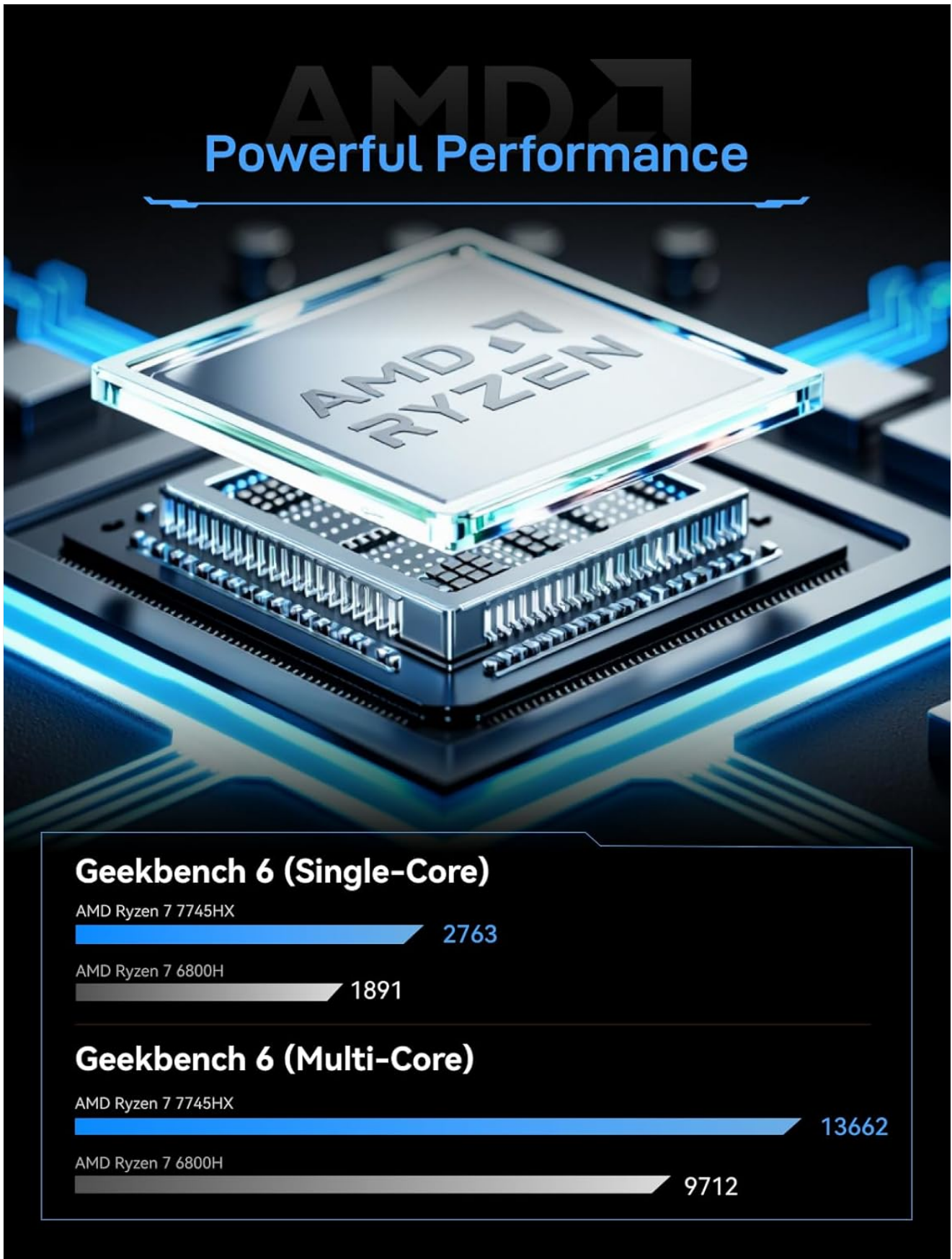
OPERATING

Once your MINISFORUM BD775i SE motherboard is set up, this section details its operational capabilities,

including performance features, video output configurations, and connectivity options.

Powerful Performance

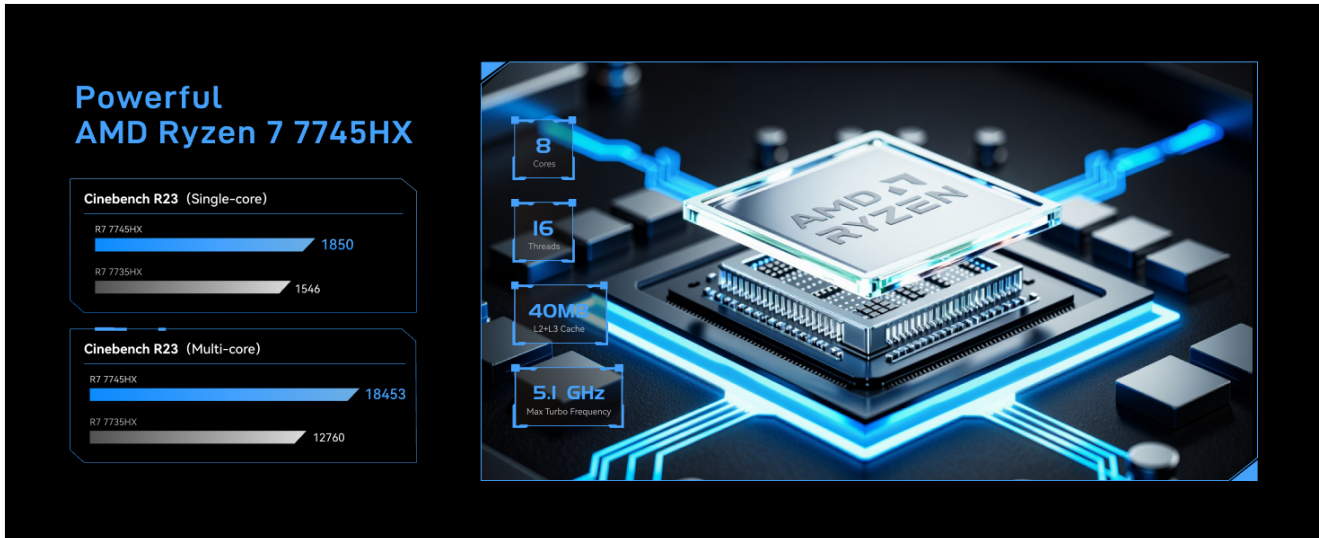
The BD775i SE Motherboard is equipped with the AMD Ryzen 7 7745HX processor, featuring 8 cores and 16 threads based on Zen 4 architecture, with a max boost speed up to 5.1GHz. This provides robust desktop-level performance suitable for demanding applications and gaming.



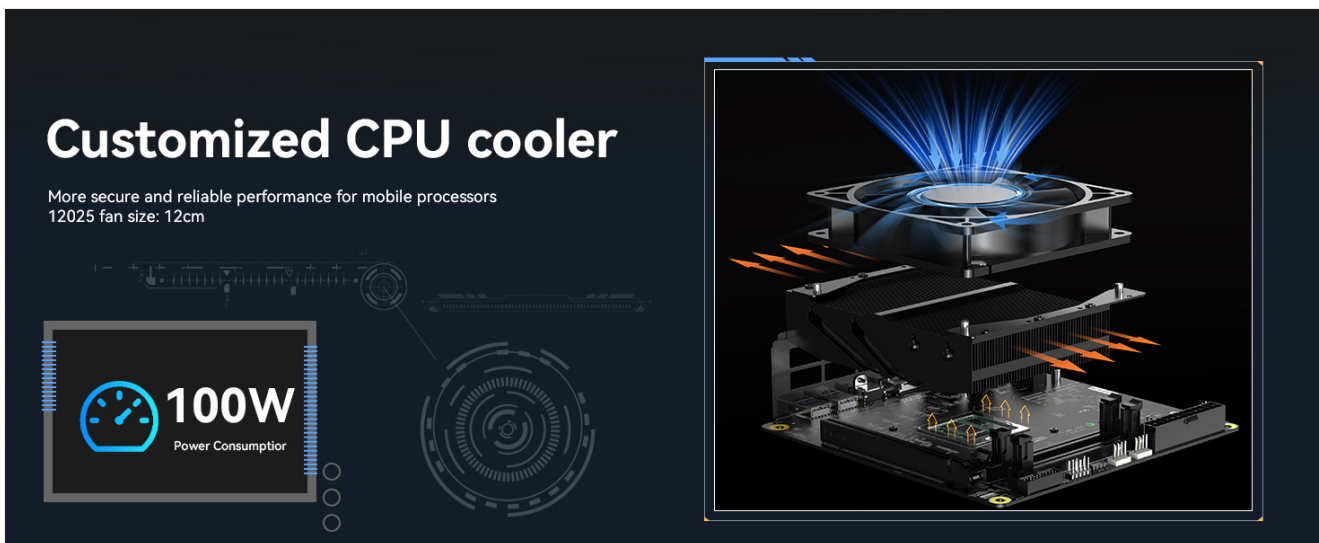
This image illustrates the powerful performance of the AMD Ryzen 7 7745HX processor on the MINISFORUM BD775i SE motherboard, showing Geekbench 6 single-core and multi-core scores compared to AMD Ryzen 7 6800H.

Video Outputs

The motherboard supports triple video outputs for an immersive visual experience. One USB-C port supports 8K@60Hz, while the HDMI and DisplayPort 1.4 outputs support 4K@60Hz. This allows for multi-monitor setups and high-resolution displays.



This image demonstrates the triple video output capability of the MINISFORUM BD775i SE motherboard, featuring HDMI 2.1, DisplayPort 1.4, and USB-C (Alt DP) ports for connecting multiple displays.



This image highlights the 8K@60Hz video output capability of the MINISFORUM BD775i SE motherboard, providing a high-resolution visual experience.

Memory and Storage

The BD775i SE features two DDR5 SO-DIMM slots, supporting up to 96GB of RAM at speeds up to 5200 MT/s. For storage, it includes two M.2 2280 SSD slots (PCIe 4.0 x2), enabling fast operating system and application loading times.

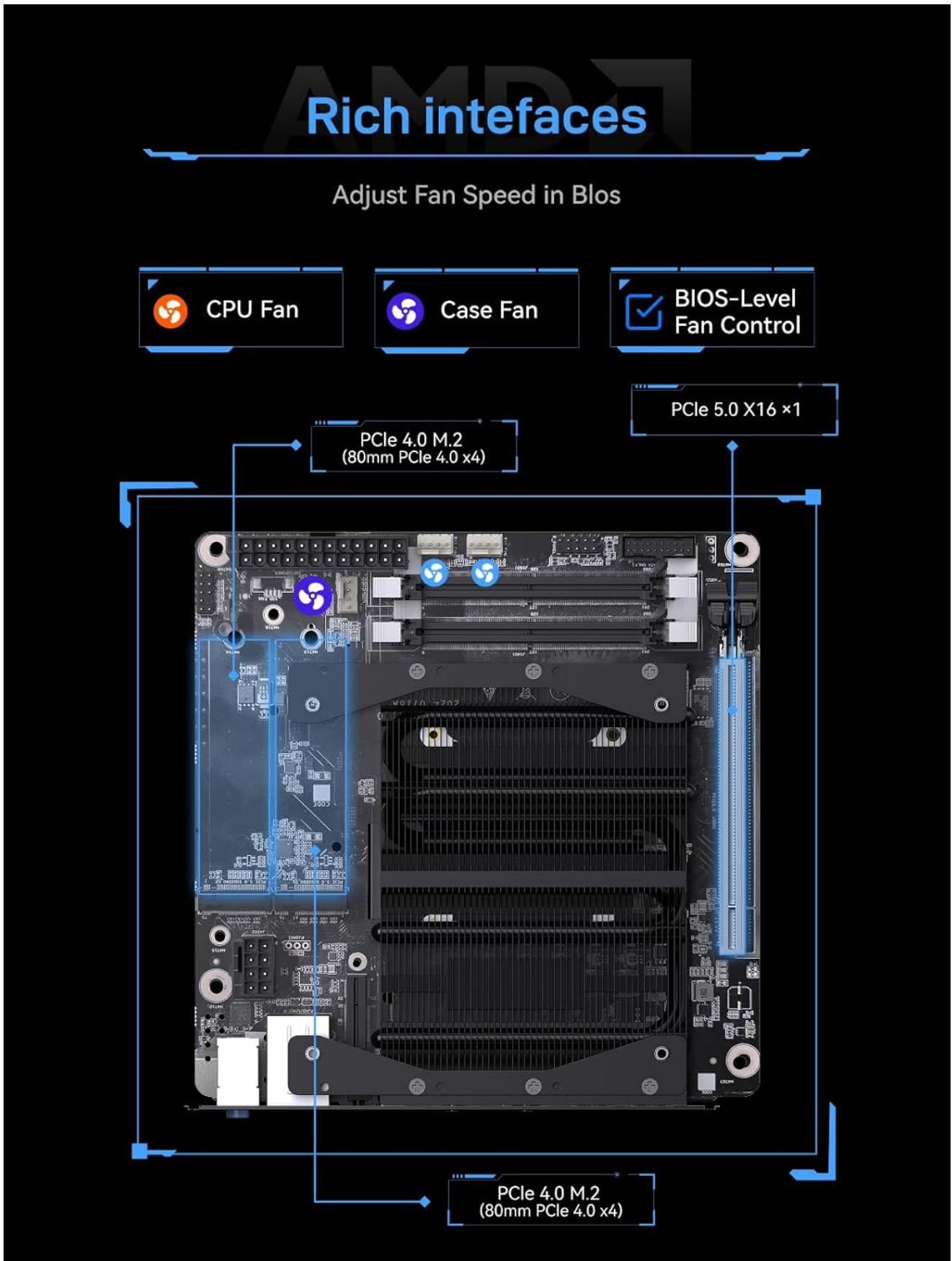
MAINTENANCE

Regular maintenance helps ensure the longevity and stable operation of your MINISFORUM BD775i SE

motherboard. Keep the system clean and ensure proper airflow.

Fan Control and Cooling

The motherboard supports BIOS-level fan control for CPU and case fans, allowing you to adjust fan speeds for optimal cooling and noise levels. Ensure fans are free from dust buildup for efficient heat dissipation.



This image displays the internal layout of the MINISFORUM BD775i SE motherboard, indicating the locations of PCIe 4.0 M.2 slots,

PCIe 5.0 x16 slot, and fan headers for CPU and case fans, along with BIOS-level fan control.

Cleaning

Periodically clean dust from the motherboard and cooling components using compressed air. Ensure the system is powered off and unplugged before cleaning.

TROUBLESHOOTING

This section provides general guidance for common issues you might encounter with your MINISFORUM BD775i SE motherboard. For specific or persistent problems, refer to the official MINISFORUM support resources.

- **No Power:** Ensure all power cables (24-pin and 8-pin CPU) are securely connected to the motherboard and power supply. Verify the power supply is switched on.
- **No Display:** Check that your monitor is connected to the correct video output port (HDMI, DisplayPort, or USB-C) on the motherboard or dedicated graphics card. Ensure the monitor is powered on and set to the correct input source.
- **System Instability/Crashes:** Verify that RAM modules are properly seated. Check for overheating by monitoring CPU and system temperatures. Ensure all drivers are up to date.
- **Peripheral Not Detected:** Ensure USB devices are connected to functional ports. Try different ports or devices to isolate the issue.

SPECIFICATIONS

Detailed technical specifications for the MINISFORUM BD775i SE motherboard are provided below.



This image displays a detailed specifications table for the MINISFORUM BD775i SE motherboard, including CPU, GPU, memory, storage, expansion slots, ethernet, video output, audio output, headers & connectors, I/O ports, form factor, and power supply support.

Feature	Specification
Brand	MINISFORUM
CPU Socket	FL1

Feature	Specification
Compatible Devices	Personal Computer, Desktop, Server
RAM Memory Technology	DDR5
Compatible Processors	AMD Ryzen 7 7745HX
Chipset Type	AMD 600
Memory Clock Speed	5200 MHz
Model Name	DeskMini
CPU Model	AMD R Series
RAM Memory Maximum Size	96 GB
Processor Socket	FL1
Main Power Connector Type	24-Pin
Graphics Card Interface	Integrated
Memory Slots Available	2
Number of Ports	10
Total USB Ports	4
Number of Ethernet Ports	1
Total Number of HDMI Ports	1
Total PCIe Ports	2
Model Number	Deskmini
Manufacturer	Micro Computer (HK) Tech Limited

WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance with your MINISFORUM BD775i SE Motherboard, please refer to the official MINISFORUM website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Official MINISFORUM Store: [MINISFORUM Amazon Store](#)