

Montech X5-Black

MONTECH X5- ATX Mid-Tower Gaming PC Case User Manual

Model: X5-Black

INTRODUCTION

The MONTECH X5-Black is a high-performance ATX Mid-Tower PC case designed for gaming enthusiasts, offering excellent airflow, versatile component compatibility, and aesthetic appeal. It features a tempered glass side panel, carbon print accents, and comes with pre-installed ARGB fans to provide optimal cooling and vibrant lighting out of the box.



Figure 1: MONTECH X5-Black ATX Mid-Tower PC Case (Empty)

This manual provides detailed instructions for assembling your system within the X5-Black case, ensuring proper installation and optimal performance.

KEY FEATURES

- **High Airflow Design:** Optimized front mesh panel for superior air intake.
- **Pre-installed ARGB Fans:** Includes three 140mm front ARGB fans and one 120mm rear ARGB fan for immediate cooling and lighting.
- **Tempered Glass Side Panel:** Provides a clear view of your internal components.
- **Integrated GPU Holder:** An adjustable support stand is included to prevent GPU sag.
- **Carbon Print Accents:** Refined carbon texture details on the front frame for a modern aesthetic.
- **Excellent Hardware Compatibility:** Supports GPUs up to 410mm, CPU coolers up to 165mm, and standard ATX PSUs up to 230mm.
- **Optimized Cable Management:** Ample routing space behind the motherboard tray and an extra-large PSU shroud.



Figure 2: Carbon Print Accents Detail

The carbon print accents provide a sleek and premium finish to the case's exterior.

Unwavering Stability

Featuring an adjustable GPU support that keep your graphics card secure and stable



Figure 3: Integrated GPU Holder

The adjustable GPU holder ensures stability for even the heaviest graphics cards.

SETUP GUIDE

1. Unpacking and Preparation

- Carefully remove the case from its packaging.
- Remove the tempered glass side panel by gently swinging it open and lifting it off its hinges. Place it on a soft, flat surface to prevent scratches.
- Identify the accessory box, which contains screws, zip ties, and other small parts.

2. Component Installation

Before installing components, familiarize yourself with the case's internal layout and compatibility:

Excellent Hardware Compatibility

- GeForce RTX™ 50 Series Supported
- Mainstream CPU Cooler Support
- Standard ATX PSU Support
- HDD & SSD Support

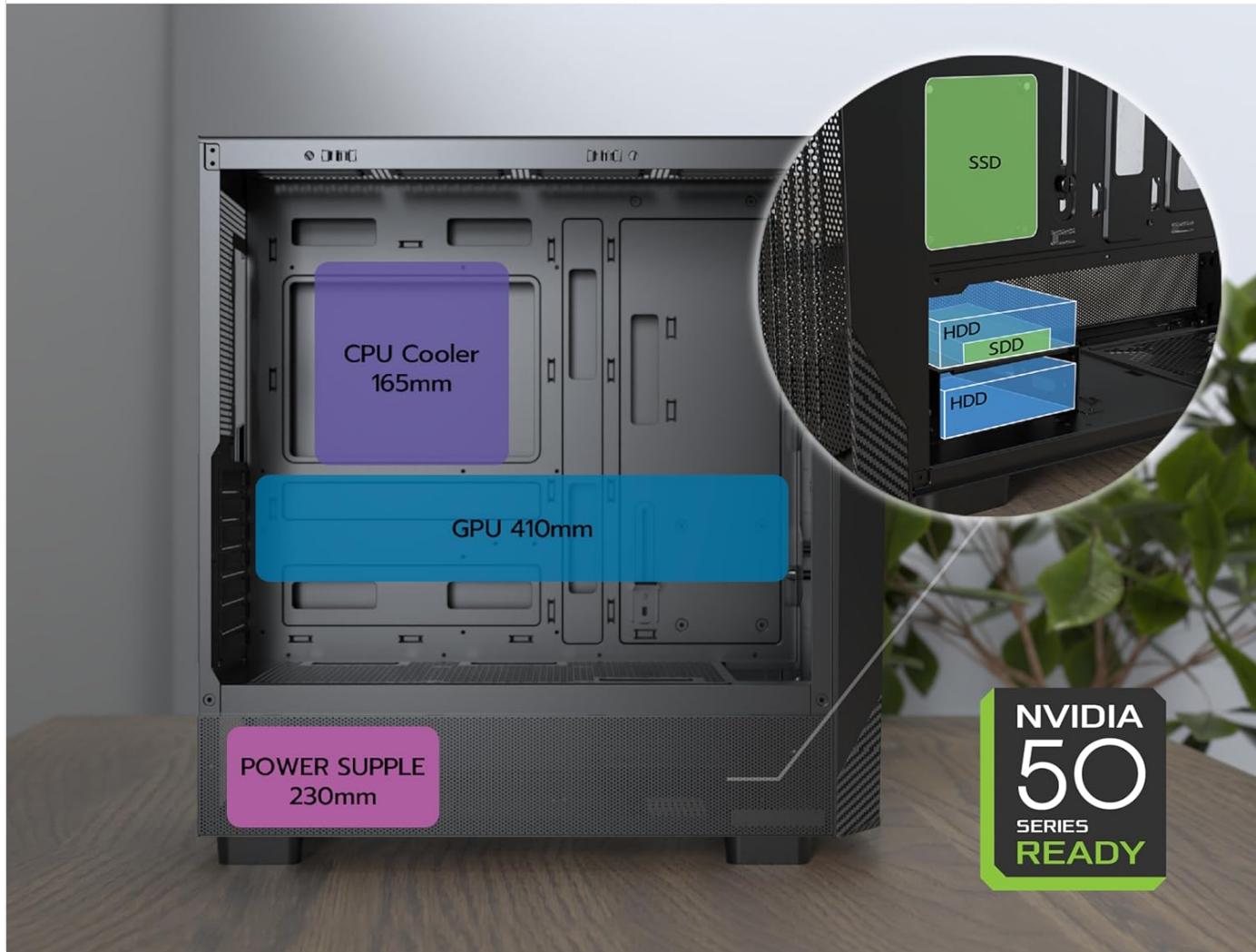


Figure 4: Hardware Compatibility Overview

This diagram illustrates the maximum dimensions for key components: GPU (410mm), CPU Cooler (165mm), and Power Supply (230mm).

2.1 Motherboard Installation

1. Ensure the correct standoffs are installed for your motherboard form factor (ATX, Micro ATX).
2. Carefully place the motherboard into the case, aligning it with the standoffs and the I/O shield opening.
3. Secure the motherboard with the appropriate screws.

2.2 Power Supply Installation

1. Slide the power supply unit (PSU) into the dedicated compartment at the bottom rear of the case.
2. Secure the PSU with screws from the rear of the case.

2.3 GPU Installation

1. Remove the necessary PCIe slot covers from the rear of the case.
2. Insert your graphics card into the appropriate PCIe slot on the motherboard.
3. Secure the GPU with screws. Utilize the integrated GPU holder (Figure 3) to provide additional support.

2.4 Storage Drive Installation (HDD/SSD)

- Locate the drive bays/mounts behind the motherboard tray or within the PSU shroud.
- Install 2.5" SSDs or 3.5" HDDs using the provided screws and brackets.

2.5 Fan and Radiator Installation

The X5-Black supports various fan and radiator configurations:

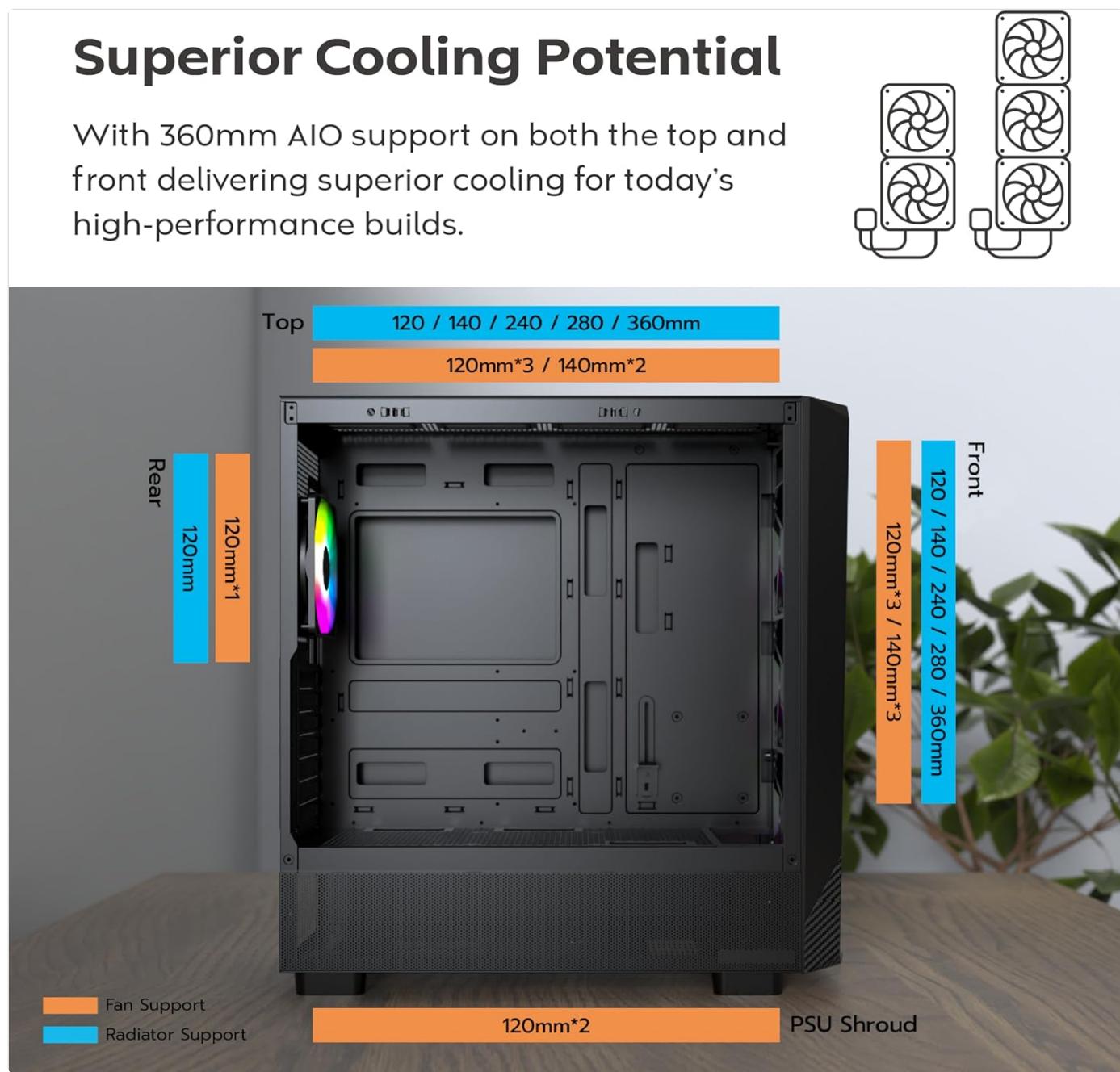


Figure 5: Superior Cooling Potential (Fan/Radiator Support)

The case supports up to 360mm AIO radiators on both the top and front. Ensure proper airflow direction for optimal cooling.

2.6 Cable Management

- Route all power and data cables through the designated cutouts and channels behind the motherboard tray.
- Use zip ties or Velcro straps to bundle cables neatly, improving airflow and aesthetics.

OPERATION

1. Front I/O Panel

The front I/O panel provides convenient access to essential ports and controls:

Versatile Connectivity

Features a range of ports, including USB 2.0, USB 3.0, and USB Type-C, offering quick data transfer and versatile connectivity for all your devices.

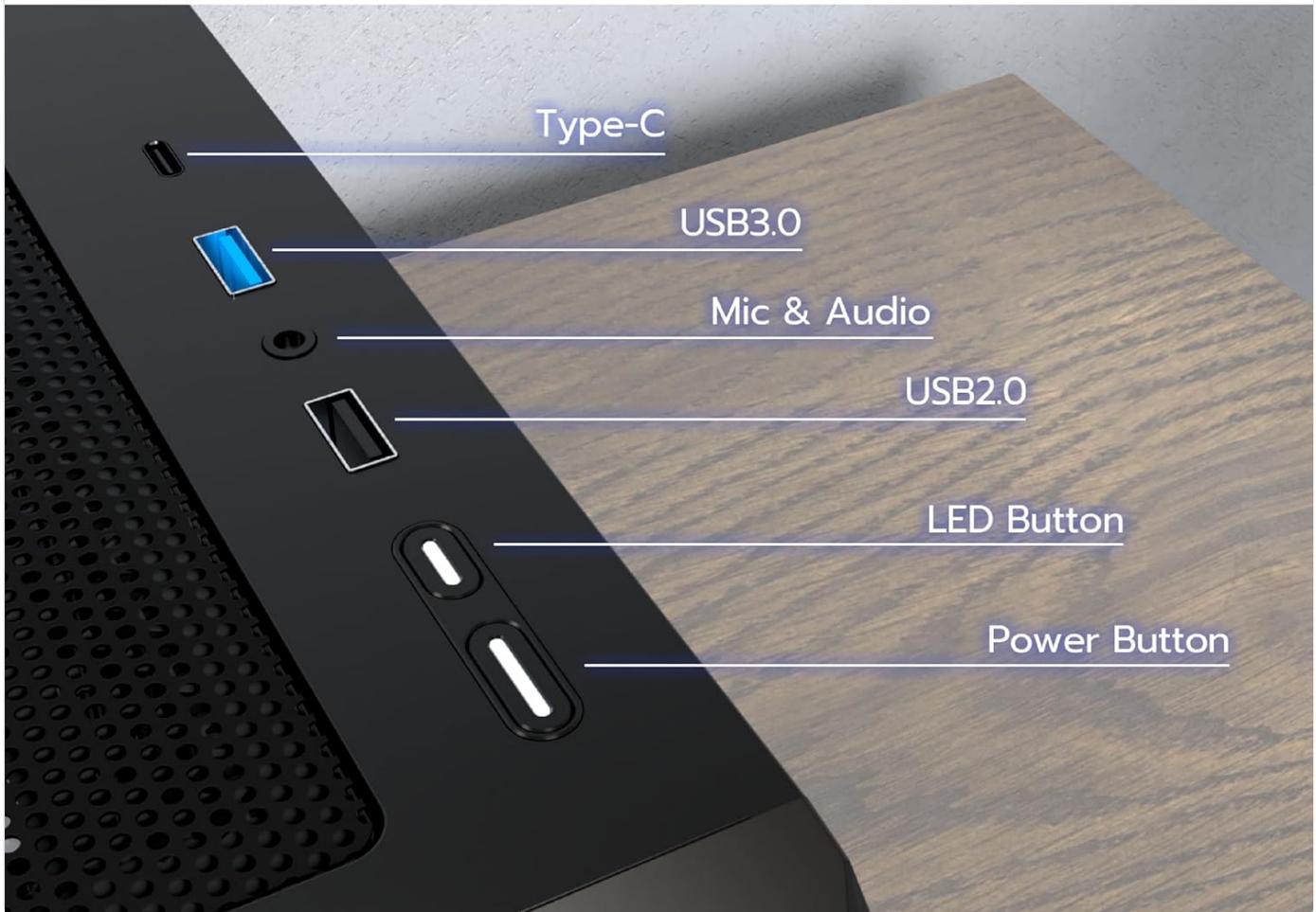


Figure 6: Versatile Connectivity (Front I/O)

- **Power Button:** Turns the system on or off.
- **LED Button:** Cycles through various ARGB lighting modes for the pre-installed fans.
- **USB 2.0 Port:** For connecting USB 2.0 devices.
- **USB 3.0 Port:** For connecting high-speed USB 3.0 devices.
- **Mic & Audio Jacks:** For connecting headphones and microphones.
- **USB Type-C Port:** For modern USB-C connectivity (if applicable to your specific model).

2. ARGB Fan Control

The pre-installed ARGB fans can be controlled via the dedicated LED button on the front I/O panel. Press the button to cycle through different lighting effects and colors. For advanced synchronization and control, connect the ARGB headers to a compatible motherboard with ARGB software support (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync).

MAINTENANCE

- Dust Filter Cleaning:** Regularly check and clean the removable dust filters located on the top, bottom, and front (if applicable) of the case. This helps maintain optimal airflow and prevents dust buildup inside your system.
- Interior Cleaning:** Periodically use compressed air to remove dust from internal components, especially fan blades and heatsinks. Ensure the system is powered off and unplugged before cleaning.
- Exterior Cleaning:** Wipe the exterior surfaces with a soft, damp cloth. Avoid abrasive cleaners or solvents that may damage the finish or carbon print accents.

TROUBLESHOOTING

Issue	Possible Cause	Solution
System does not power on.	Loose power connections, faulty PSU, incorrect front panel header connection.	Check all power cables (24-pin, CPU, GPU). Ensure front panel power switch cable is correctly connected to motherboard. Test PSU if possible.
Fans are not spinning.	Fan cables disconnected, insufficient power, faulty fans.	Verify fan power cables are securely connected to the motherboard or fan controller. Check BIOS settings for fan control.
ARGB lighting not working or stuck.	ARGB cable disconnected, incompatible motherboard header, software issue.	Ensure ARGB cables are connected to the correct 3-pin 5V ARGB header on the motherboard. Try pressing the LED button on the front I/O. Update or reinstall motherboard RGB software.
USB ports not functioning.	Front panel USB cables disconnected from motherboard.	Check that the USB 2.0, USB 3.0, and USB Type-C (if applicable) headers from the case are securely connected to the corresponding headers on your motherboard.

TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	X5-Black
Case Type	Mid Tower
Motherboard Compatibility	ATX, Micro ATX
Dimensions (L x W x H)	18.98 x 8.5 x 19.53 inches (482 x 216 x 496 mm)
Weight	14.3 pounds (6.49 kg)
Material	Metal with Carbon Fiber Accents, Tempered Glass
Pre-installed Fans	Front: 3 x 140mm ARGB; Rear: 1 x 120mm ARGB
Fan Support (Max)	Front: 3 x 120mm / 3 x 140mm; Top: 2 x 120mm / 2 x 140mm; Rear: 1 x 120mm

Feature	Specification
Radiator Support (Max)	Front: 360mm; Top: 360mm; Rear: 120mm
Max GPU Length	410mm
Max CPU Cooler Height	165mm
Max PSU Length	230mm
Drive Bays	2.5" SSD, 3.5" HDD (specific configuration varies)
Front I/O Ports	1 x USB 3.0, 1 x USB 2.0, 1 x USB Type-C, Audio In/Out, Power Button, LED Button

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official MONTECH website or contact your local retailer. Warranty terms and conditions may vary by region and product. Please retain your proof of purchase for warranty claims.

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IMPORTANT SAFETY NOTES We strongly recommend that anyone driving RC cars, or organising events, should obtain third party liability insurance. In the UK this can be done by joining the BRCA. www.brca.org This product is not suitable for children under the age of 14, without the direct supervision...

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