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Sharkoon SHA-VS4-VBK

Sharkoon VS4-V Series Mid-Tower PC Case Instruction Manual

Model: SHA-VS4-VBK

1. INTRODUCTION

The Sharkoon VS4-V Series Mid-Tower PC Case, model SHA-VS4-VBK, is designed to provide a functional and cost-effective solution for building ATX and Micro-ATX computer systems. This case features a streamlined design without an acrylic side window, focusing on practicality and efficient component housing. This manual provides essential information for the proper installation, operation, and maintenance of your PC case.

2. PRODUCT OVERVIEW

The VS4-V case offers a robust structure with ample space for various components, ensuring good airflow and ease of assembly.

Key Features:

- **Material:** Steel/Plastic construction for durability.
- **Motherboard Compatibility:** Supports ATX and Micro-ATX motherboards.
- **Drive Bays:**
 - 3x 5.25-inch external drive bays.
 - 3x internal 3.5-inch drive bays.
 - 4x internal 2.5-inch drive bays.
- **PCI Slots:** 7 expansion slots, supporting graphics cards up to 385mm in length (with drive cage removed).
- **Front I/O Ports:** 2x USB 3.0, 2x USB 2.0, and HD Audio connections for convenient access.
- **Cooling:** Pre-installed with 1x 120mm front fan. Additional fan mounts are available.
- **CPU Cooler Clearance:** Accommodates CPU coolers up to 160mm in height.
- **Power Supply:** Compatible with ATX power supplies up to 250mm in depth (power supply not included).

Component Identification:



Figure 2.1: Front and side view of the Sharkoon VS4-V PC case. This image displays the overall exterior design, highlighting the front panel with drive bays and I/O ports, and the ventilated side panel.

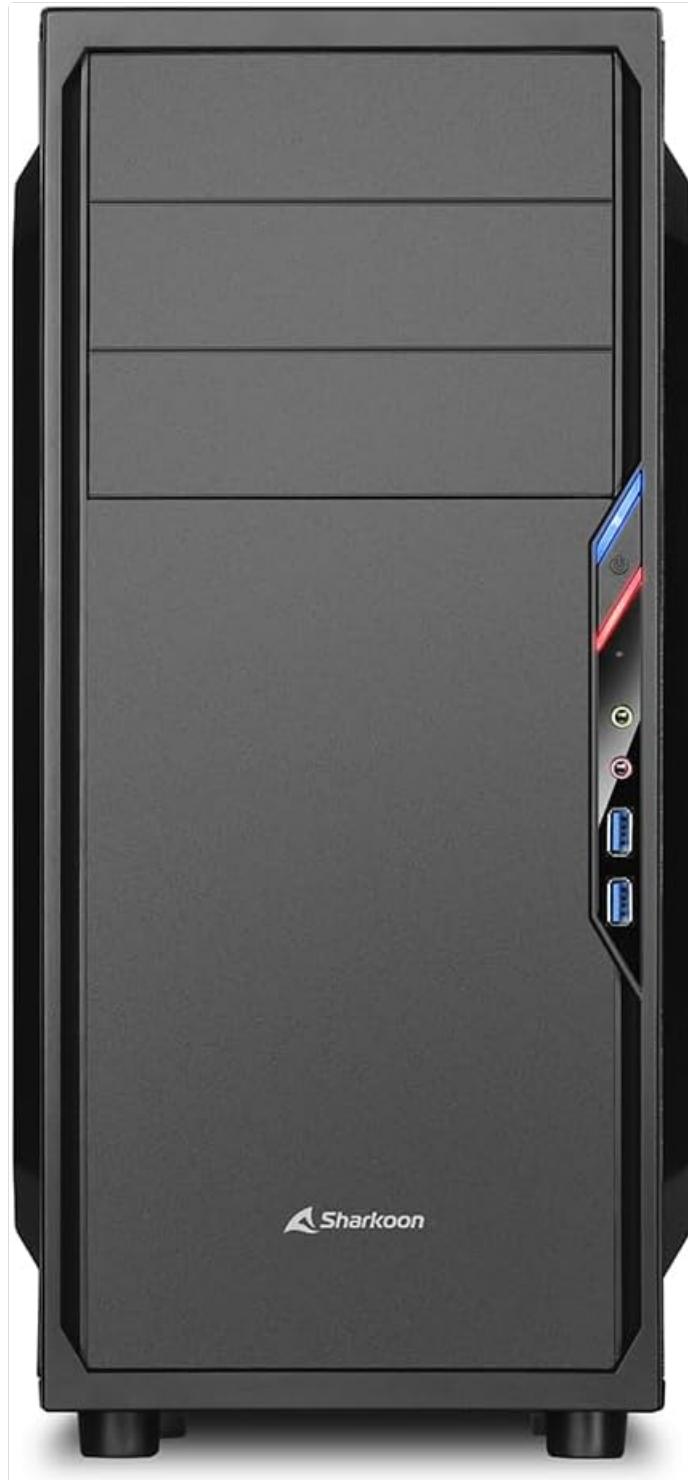


Figure 2.2: Front panel of the Sharkoon VS4-V PC case. This view focuses on the three 5.25-inch drive bays, the power/reset buttons, and the front I/O ports (USB 3.0, USB 2.0, and audio jacks).



Figure 2.3: Interior view of the Sharkoon VS4-V PC case. This image shows the spacious interior, including the motherboard tray, the upper 5.25-inch drive bays, and the lower 3.5-inch/2.5-inch drive cages.



Figure 2.4: Rear view of the Sharkoon VS4-V PC case. This perspective highlights the seven PCI expansion slots, the rear fan mount, and the bottom-mounted power supply opening.



Figure 2.5: Side panel of the Sharkoon VS4-V PC case. This image shows the solid side panel, which includes a large perforated area for additional ventilation or fan mounting.

Extremely efficient Airflow System:

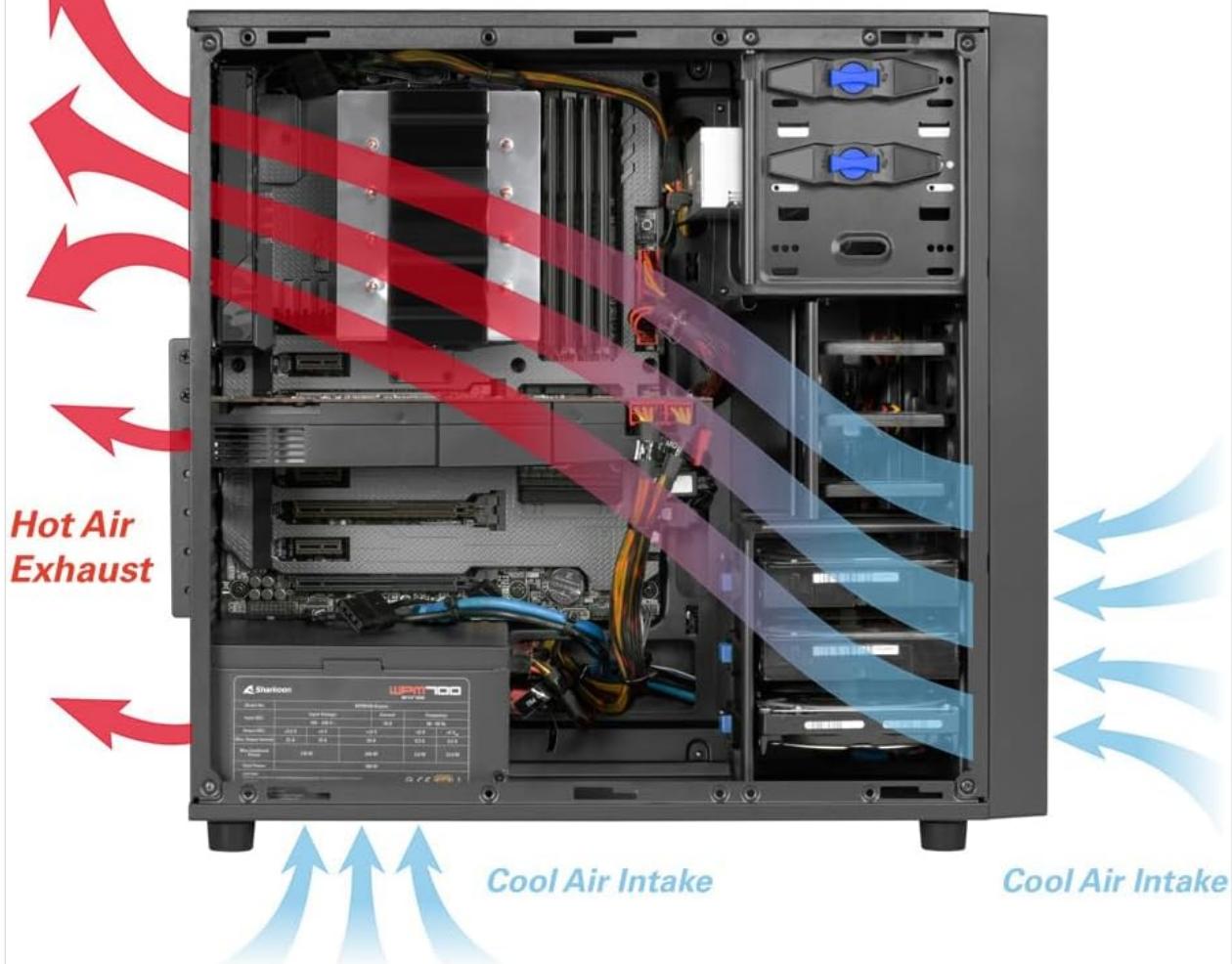


Figure 2.6: Airflow diagram of the Sharkoon VS4-V PC case. This diagram visually represents the optimized airflow path, showing cool air intake from the front and bottom, and hot air exhaust from the rear and top, ensuring efficient cooling of internal components.



Figure 2.7: Internal layout with components. This image provides a detailed view of the case interior with a motherboard, CPU cooler, graphics card, and drives installed, demonstrating the available space and potential for cable routing.

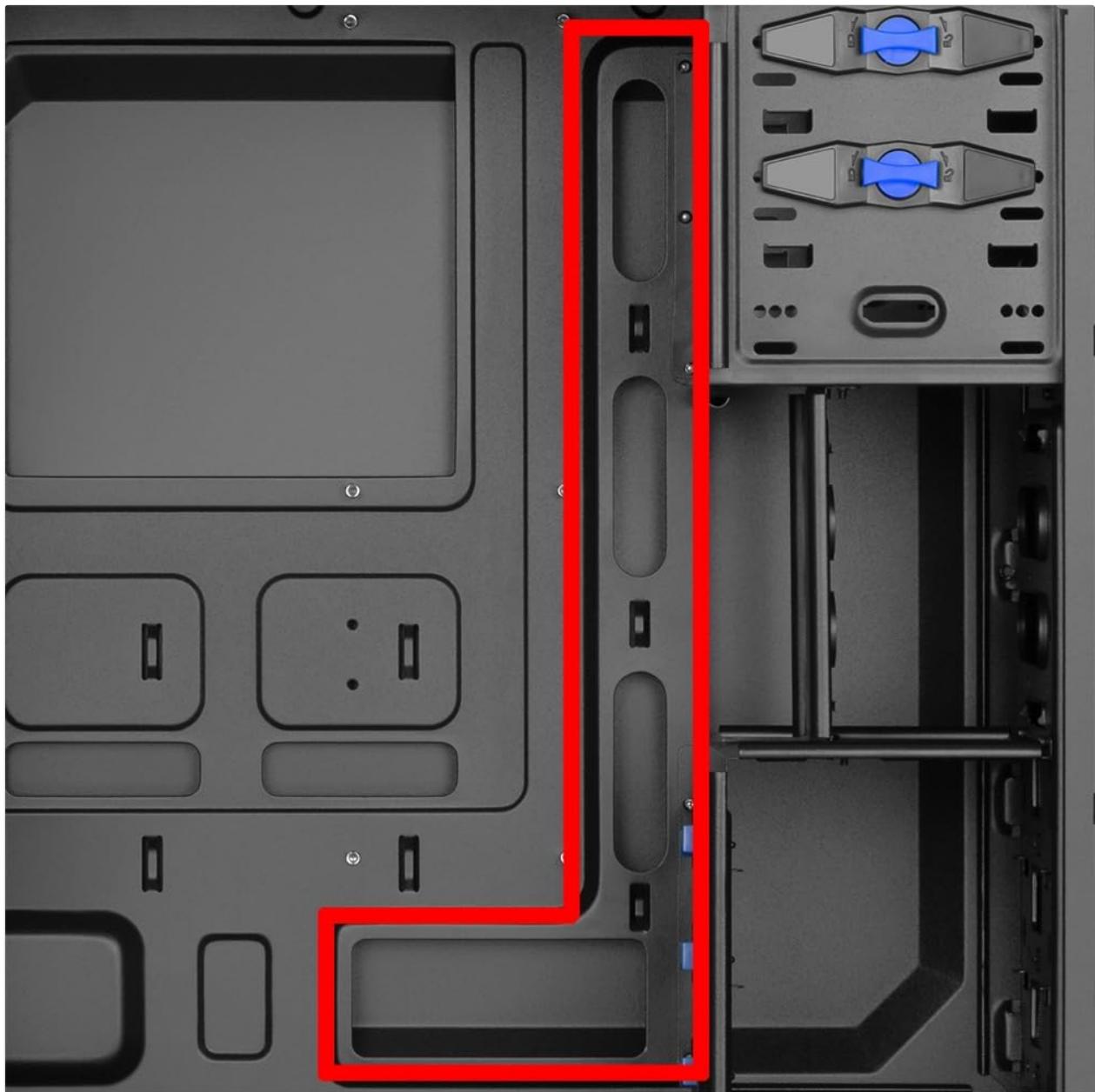


Figure 2.8: Cable management cutouts. A close-up view of the strategically placed cutouts on the motherboard tray, designed to facilitate clean cable routing behind the tray, improving airflow and aesthetics.



Figure 2.9: CPU cooler installation cutout. This image shows the large cutout on the motherboard tray, allowing for easy installation or removal of CPU coolers without needing to remove the entire motherboard.



Figure 2.10: Installed 120mm fan. A close-up of a 120mm fan, typically found at the front or rear of the case, responsible for intake or exhaust airflow.



Figure 2.11: Bottom dust filter. This image displays the bottom of the case, highlighting the removable dust filter located beneath the power supply intake, which helps maintain a clean interior.



Figure 2.12: Internal drive bays. A view of the internal cages designed to house multiple 3.5-inch hard drives and 2.5-inch solid-state drives, often featuring tool-less installation mechanisms.

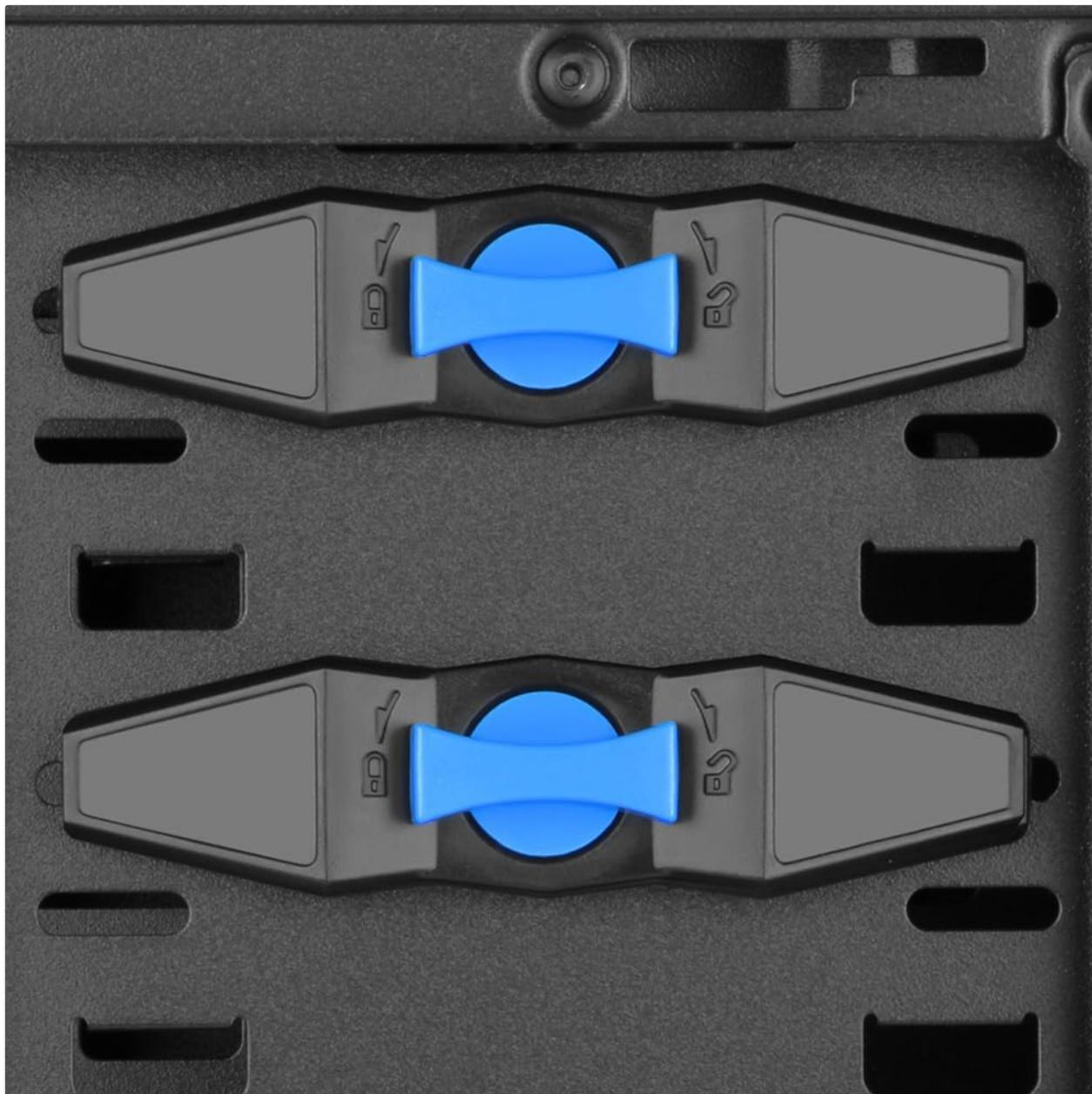


Figure 2.13: Tool-less 5.25-inch drive mounts. This image shows the blue tool-less clips used to secure 5.25-inch optical drives or other devices into their bays, simplifying installation.

3. SETUP AND INSTALLATION

This section outlines the general steps for assembling a computer system within the Sharkoon VS4-V PC case. Always refer to the manuals of your individual components (motherboard, power supply, etc.) for specific installation instructions.

3.1 Preparing the Case:

1. Unpack the case and remove all packaging materials.
2. Place the case on a stable, flat surface.
3. Remove the side panels by unscrewing the thumbscrews at the rear of the case and sliding the panels backward.

3.2 Power Supply Installation:

1. Mount your ATX power supply into the designated area at the bottom rear of the case.

2. Secure it with screws from the rear of the case.

3.3 Motherboard Installation:

1. Install the I/O shield provided with your motherboard into the cutout at the rear of the case.
2. Ensure the standoffs are correctly aligned for your ATX or Micro-ATX motherboard. Install additional standoffs if necessary.
3. Carefully place the motherboard onto the standoffs and secure it with screws.

3.4 Drive Installation:

- **5.25-inch Drives (e.g., Optical Drives):** Remove the front panel bay cover. Slide the drive into the bay from the front until it clicks into place with the tool-less mechanism.
- **3.5-inch Hard Drives:** Slide the 3.5-inch drive into an available bay in the drive cage. Use the provided tool-less clips or screws to secure it.
- **2.5-inch SSDs/HDDs:** Mount 2.5-inch drives into the dedicated 2.5-inch bays using screws.

3.5 Expansion Card Installation:

1. Remove the necessary PCI slot covers from the rear of the case.
2. Insert your graphics card or other expansion cards into the appropriate PCI-E slots on the motherboard.
3. Secure the cards with screws.

3.6 Cable Management:

Utilize the cable management cutouts and tie-down points on the motherboard tray to route cables behind the tray. This improves airflow and creates a cleaner interior appearance.

4. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can begin operating your system.

4.1 Powering On/Off:

- Press the **Power Button** located on the front panel to turn on your computer.
- To turn off, use the operating system's shutdown function. A long press on the power button can force a shutdown if the system is unresponsive.

4.2 Using Front I/O Ports:

- Connect USB devices to the **USB 3.0** or **USB 2.0** ports.
- Plug in headphones or microphones to the **HD Audio** jacks.

5. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your PC components.

5.1 Dust Cleaning:

- Periodically clean the dust filters, especially the removable filter under the power supply.

- Use compressed air to clear dust from internal components and fan blades. Ensure fans are held stationary during cleaning to prevent damage.

5.2 Exterior Cleaning:

Wipe the exterior of the case with a soft, damp cloth. Avoid abrasive cleaners or solvents that may damage the finish.

6. TROUBLESHOOTING

If you encounter issues with your PC, consider the following general troubleshooting steps. For specific component issues, refer to their respective manuals.

- **No Power:** Ensure the power supply is switched on and all power cables (24-pin ATX, 8-pin CPU, GPU power) are securely connected. Check the front panel power button connection to the motherboard.
- **No Display:** Verify that the monitor is connected to the graphics card (not the motherboard's integrated graphics, unless intended) and that the graphics card is properly seated and powered.
- **Overheating:** Check fan operation and ensure proper airflow. Clean dust filters and internal components. Verify CPU cooler installation.
- **Front Panel Ports Not Working:** Ensure the front panel I/O cables (USB, audio) are correctly connected to the motherboard headers.

7. SPECIFICATIONS

Feature	Specification
Brand	Sharkoon
Model Number	SHA-VS4-VBK
Product Dimensions (W x H x D)	20 x 43 x 44.5 cm
Product Weight	3.5 kg
Material	Steel, Plastic
Motherboard Compatibility	ATX, Micro-ATX
Case Type	Mid Tower
Color	Black
5.25" Drive Bays	3
3.5" Internal Drive Bays	3
2.5" Drive Bays	4
PCI Expansion Slots	7
Max. Graphics Card Length	385 mm (with HDD cage removed)

Feature	Specification
Max. CPU Cooler Height	160 mm
Front I/O Ports	2x USB 3.0, 2x USB 2.0, HD Audio
Pre-installed Fans	1x 120mm (Front)
Power Supply Mounting Type	Bottom Mount
Cooling Method	Air

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Sharkoon website or contact your local retailer. Keep your proof of purchase for warranty claims.