

Lian Li B4X

Lian Li B4-mATX 21.3L PC Case Instruction Manual

Model: B4X

1. INTRODUCTION

This manual provides detailed instructions for the assembly, installation, and maintenance of your Lian Li B4-mATX 21.3L PC Case. Designed for compact yet powerful builds, this case offers versatile configuration options and efficient cooling. Please read this manual thoroughly before beginning your PC build to ensure proper installation and optimal performance.



Image 1.1: Lian Li B4-mATX PC Case (Mesh Black) in horizontal orientation.

2. PRODUCT OVERVIEW

The Lian Li B4-mATX is a 21.3-liter small form factor case engineered for mATX motherboards and GPUs up to 358mm in length. Its full mesh panels ensure optimal ventilation, and it comes with two pre-installed slim 120mm fans. The case supports both horizontal and vertical orientations, adapting to various setups. Key features include:

- **Compact Design:** 21.3-liter volume, ideal for space-saving builds.
- **Versatile Orientation:** Supports horizontal or vertical placement.
- **Enhanced Airflow:** Full mesh panels for superior cooling.
- **Pre-installed Fans:** Two slim 120mm non-RGB fans included.
- **Easy Cable Management:** Rotatable AC inlet and ample rear clearance.

- **Broad Compatibility:** Supports up to 360mm AIOs (with SFX PSU) and GPUs up to 358mm.

3. SAFETY INFORMATION

Always exercise caution when handling computer components. Disconnect the power supply from the wall outlet before performing any installation or maintenance. Avoid touching electronic components directly to prevent electrostatic discharge. Keep small parts away from children. Refer to your component manuals for specific safety guidelines.

4. SETUP AND INSTALLATION

4.1. Case Dimensions and Component Compatibility

The B4-mATX case offers a compact footprint while accommodating significant hardware. Understanding the dimensions is crucial for component selection.



Image 4.1: Case dimensions (W: 191mm, D: 420mm, H: 288mm) and hardware compatibility.

- **Motherboard Support:** Micro-ATX, Mini ITX
- **GPU Length Clearance:** Up to 358mm (4-slot thick)
- **CPU Cooler Height Clearance:** 162mm (with side fan bracket), 168mm (without side fan bracket)

- **PSU Support:** ATX (up to 140mm), SFX

4.2. Fan Installation and Airflow Configuration

The case includes two pre-installed 120x120x15mm slim fans on the top panel. These fans operate up to 1800 RPM, providing 64.2 CFM airflow with 2.4mmH₂O static pressure at 30.3dBA noise level. They are daisy-chained for simplified cable management.

COMPACT DESIGN, BROAD COMPATIBILITY

With a compact 21.3L volume, the B4-mATX delivers impressive hardware compatibility, supporting M-ATX motherboards, 360mm AIOs, 140mm ATX PSUs, and up to 358mm 4-slot GPUs.

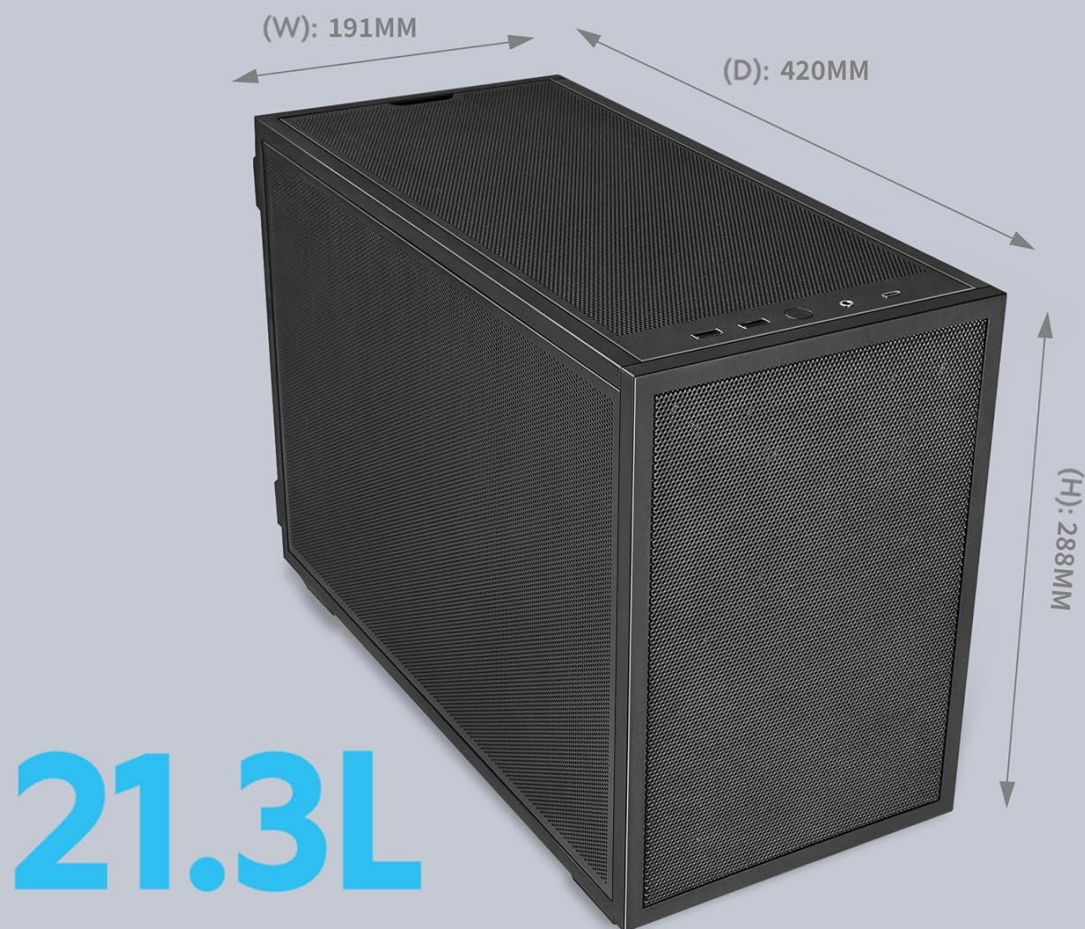


Image 4.2: Detail of pre-installed slim fans and their specifications.

The B4-mATX offers flexible cooling configurations:

PRE-INSTALLED 15MM SLIM FANS, FLEXIBLE AIRFLOW DESIGN



Two pre-installed 120 × 120 × 15mm slim fans on the top provide enhanced cooling performance. Operating up to 1800 RPM, they are daisy-chained to reduce cable clutter.

SIZE	120 x 120 x 15mm
SPEED	0~1800 ± 10% RPM
AIRFLOW	64.2 CFM
STATIC PRESSURE	2.4mmH ₂ O
NOISE	30.3dBA

Image 4.3: Diagram illustrating flexible cooling configurations, including fan and radiator placements.

- **Top:** 2x 120mm (pre-installed)
- **Side (with SFX PSU):** 2x 120mm / 2x 140mm
- **Side (with ATX PSU):** 2x 120mm
- **Front (SFX PSU only):** 1x 120mm slim fan
- **Bottom:** 3x 120mm / 2x 140mm
- **Rear:** 1x 120mm

For optimal liquid cooling, consider the following configurations:

REMOVABLE TOP FAN BRACKET

The removable top fan bracket provides easier access for routing and managing CPU 8-pin cables, while also making it simpler to configure the front-top fan as intake for air-cooler setups.



Image 4.4: Recommended liquid cooling setups, including 360/280mm AIO with SFX PSU and 240mm AIO with 140mm ATX PSU.

For air cooling, the case supports various setups:

RECOMMENDED LIQUID COOLING CONFIGURATION

The B4-mATX supports 360mm and 280mm radiators with up to 52mm total thickness.



360 / 280mm AIO Setup

- SFX PSU + M-ATX motherboard
- 3 x Bottom fans
- 2 x Top slim fans (pre-installed)



240mm AIO Setup

- 140mm ATX PSU + M-ATX motherboard
- 3 x Bottom fans
- 2 x Top slim fans (pre-installed)
- 1 x Rear fan

Note: Due to internal space limitations, fans must be installed outwards when using liquid cooling.

Image 4.5: Recommended air cooling setups, detailing fan placements for 162mm and 168mm CPU coolers.

4.3. GPU Installation

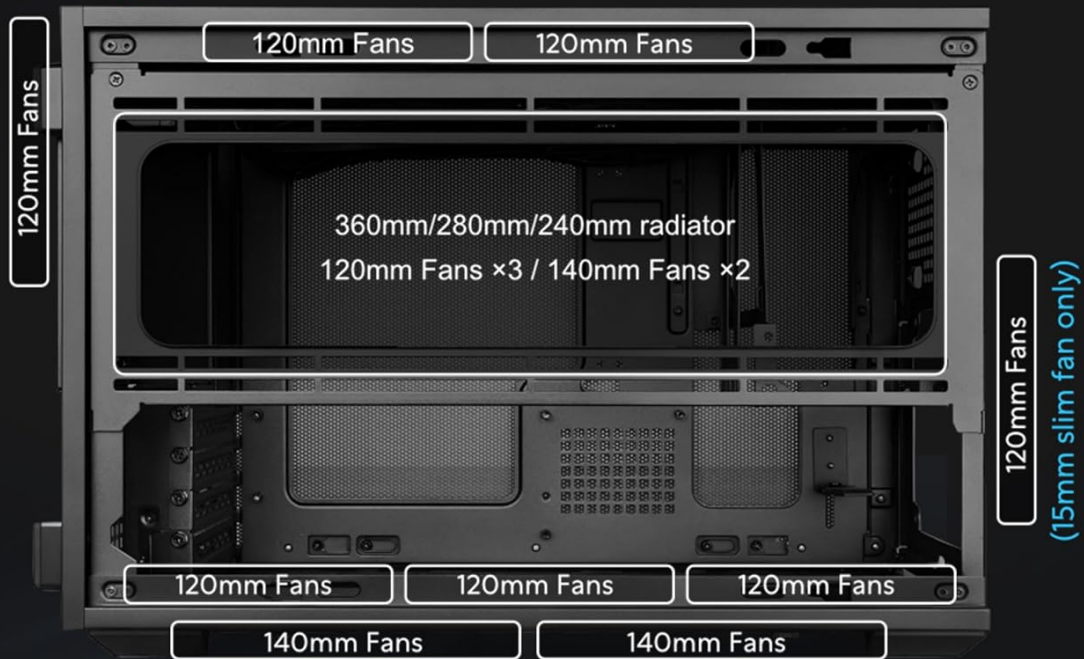
The B4-mATX case simplifies GPU installation with a removable front fan bracket, allowing large graphics cards to slide in from the front of the chassis.

FLEXIBLE COOLING CONFIGURATION

(Note: The front slim fan is not supported with 360mm radiator or ATX PSU installation.)



*Supports a maximum thickness of 15mm



Note: To install three 120mm fans, the PCIe accessory below the PCIe slots must be removed.

Image 4.6: Illustration of the easy GPU installation method.

A dedicated anti-sag bracket is pre-installed to support GPUs up to 4 slots thick and 358mm long, ensuring stability and preventing sagging over time.

EASY GPU INSTALLATION

The removable front fan bracket lets large graphics cards slide in from the front side of the chassis for a smoother installation process.

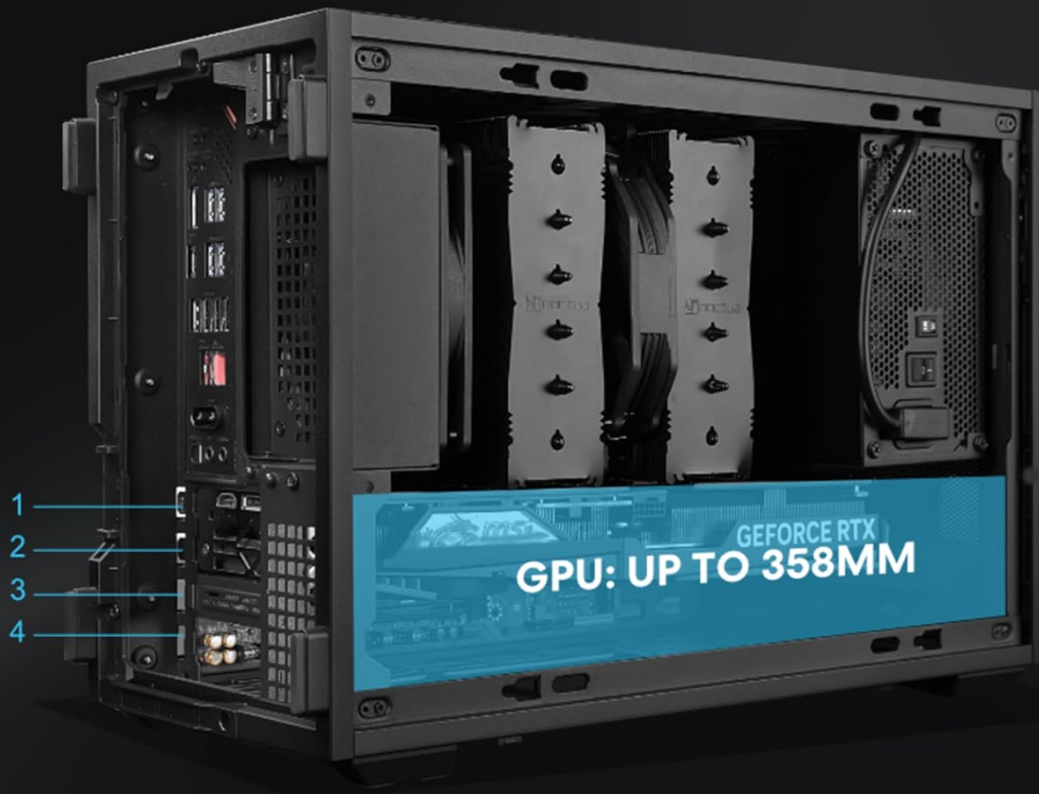


Image 4.7: Close-up of the pre-installed GPU anti-sag bracket.

4.4. Power Supply Unit (PSU) Compatibility

The choice of PSU affects available space for other components, especially for front fans and AIOs. The case supports both ATX (up to 140mm) and SFX PSUs.

SPECIFICATION

PRODUCT NAME	B4-mATX Mesh	B4-mATX Wood	B4-mATX Vertical AeroDeck
MODEL NUMBER	B4X/B4W	B4X-WD/B4W-WD	B4-1X/B4-1W
COLOR	Black / White	Black / White	Black / White
DIMENSIONS (DxWxH)	420 x 191 x 288mm	420 x 191 x 288mm	407x 191 x41.2mm
MATERIAL	Steel 4.0mm	Steel 4.0mm Wood (Walnut / Beech)	Tempered Glass, Steel Wood (Walnut / Beech)
MOTHERBOARD SUPPORT	Back-Connect: NO / Micro-ATX, Mini ITX		
EXPANSION SLOT	4		
STORAGE	Front: 2.5" SSD x 1 Bottom: 3.5" HDD x 1 or 2.5" SSD x 1		
GPU LENGTH CLEARANCE	358mm		
CPU COOLER HEIGHT CLEARANCE	162mm (168mm without side fan bracket)		
PSU SUPPORT	ATX (Up to 140mm) / SFX		
RADIATOR SUPPORT	Side (With SFX PSU) 360mm / 280mm / 240mm Side (With ATX PSU): 240mm		
FAN SUPPORT	Top: 120mm x 2 (Pre-installed) Side (With SFX PSU) 120mm x 3 / 140mm x 2 Side (With ATX PSU): 120mm x 2 Front (With SFX PSU ONLY): 120mm slim fan x 1 Bottom: 120 mm x 3 / 140mm x 2 Rear: 120 mm x 1	120mm x 3 / 140mm x 2	
INCLUDED FANS	Top: 120x120x15mm (x2)		
DUST FILTER	Bottom: Magnetic Filter x 1		PVC Dust Filter x 1
I/O PORTS	USB 3.0 Type A x 2 Power Button x 1 Audio x 1 USB 3.2 Type C x 1		
HARDWARE PROTECTION	1-Year		

Image 4.8: PSU hardware compatibility chart detailing AIO support, motherboard type, GPU length, and fan options based on PSU type.

4.5. Cable Management

The B4-mATX features a rotatable AC inlet and ample rear clearance to facilitate tidy cable organization. The removable top fan bracket also provides easier access for routing and managing CPU 8-pin cables.

PRE-INSTALLED GPU ANTI-SAG BRACKET

Built to handle GPUs up to 4 slots thick and 358mm long, the case comes equipped with a dedicated anti-sag bracket to ensure stability and prevent sagging.

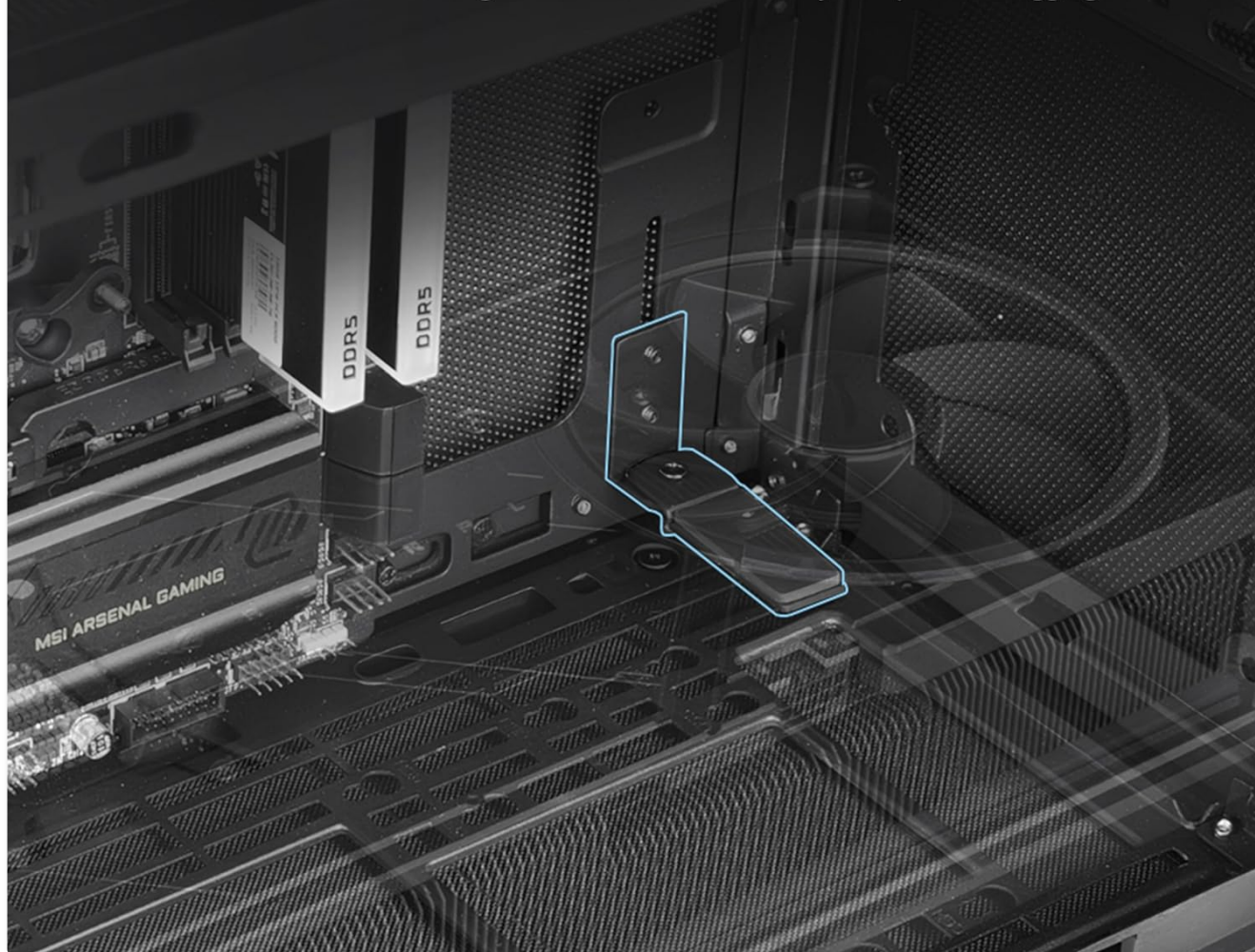
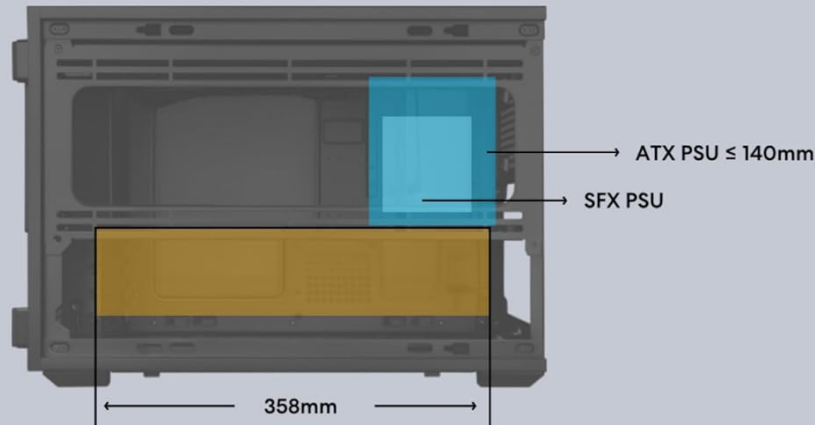


Image 4.9: Removable top fan bracket for improved access to CPU power cables and fan configuration.

For improved intake airflow, the case supports a 120x120x15mm slim front fan when using an SFX PSU and a GPU under 343mm long.

PSU HARDWARE COMPATIBILITY



PSU Type	Side AIO	AIO+Fan Thickness Support	MB Support	GPU Length	Rear Fan	Front Fan (15mm slim fan)
ATX PSU	240mm	/	MATX	358mm	120mmx1	/
ATX PSU	240mm	55mm	ITX	343 / 358mm	120mmx1	120mmx1
ATX PSU	280mm	52mm	ITX	343 / 358mm	120mmx1	120mmx1
ATX PSU	360mm	52mm	ITX	358mm	/	/
SFX PSU	240mm	55mm	MATX	343 / 358mm	120mmx1	120mmx1
SFX PSU	280mm	52mm	MATX	343 / 358mm	/	120mmx1
SFX PSU	280mm	52mm	MATX	343 / 358mm	120mmx1 (Alternative to front fan)	120mmx1 (Alternative to rear fan)
SFX PSU	360mm	52mm	MATX	358mm	/	/

Note: When installing a 15mm-thick slim front fan, the maximum GPU length is limited to 343mm. The total thickness of the radiator and fan must not exceed 52mm.

Image 4.10: Illustration of installing an extra slim front fan to enhance intake airflow.

5. OPERATING INSTRUCTIONS

Once all components are installed and connected, ensure all cables are securely fastened. Connect the power cable to the PSU and a wall outlet. Press the power button located on the front I/O panel to start your system.

5.1. Orientation

The Lian Li B4-mATX case can be used in both horizontal and vertical orientations. Choose the orientation that best suits your workspace and aesthetic preferences. Ensure stable placement in either configuration.

5.2. Front I/O Ports

The front I/O panel provides convenient access to:

- 2x USB 3.0 Type A ports
- 1x USB 3.2 Type C port
- 1x Audio port

- Power Button

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your PC. Keep the case clean and free of dust.

- **Dust Filters:** The case includes a bottom magnetic dust filter and a PVC dust filter. Regularly remove and clean these filters to maintain optimal airflow and prevent dust buildup inside the case.
- **General Cleaning:** Use a soft, dry cloth to wipe down the exterior of the case. For mesh panels, a soft brush or compressed air can be used to remove dust.
- **Internal Cleaning:** Periodically open the case and use compressed air to clear dust from internal components, especially fans and heatsinks. Ensure the system is powered off and unplugged before internal cleaning.

7. TROUBLESHOOTING

If you encounter issues during or after your build, consider the following common troubleshooting steps:

- **No Power:** Ensure the PSU is switched on and all power cables (24-pin, CPU 8-pin, GPU power) are securely connected. Check the front panel power switch connection to the motherboard.
- **No Display:** Verify that the GPU is correctly seated in the PCIe slot and connected to the monitor. Ensure the monitor is on and set to the correct input.
- **Component Clearance:** Double-check component dimensions against case specifications, especially for large GPUs, CPU coolers, and ATX PSUs, as space can be limited.
- **Cable Management:** While the case offers features for cable management, tight spaces can make it challenging. Ensure no cables are obstructing fans or preventing panels from closing properly.
- **Overheating:** Confirm all fans are spinning and oriented correctly for optimal airflow. Ensure CPU cooler and GPU fans are functioning. Check thermal paste application on the CPU.
- **Loose Connections:** Re-seat all components (RAM, GPU, storage drives) and re-check all power and data cables.

For more specific issues, consult the manuals for your individual components (motherboard, GPU, PSU) or seek assistance from Lian Li customer support.

8. SPECIFICATIONS

Below is a detailed table of the Lian Li B4-mATX case specifications:

RECOMMENDED AIR COOLING CONFIGURATION



162mm Air Cooler Setup

- SFX PSU + M-ATX motherboard
- 3 x Bottom fans
- 1 x Side fan
- 1 x Rear fan
- 1 x Front slim fan
- 2 x Top slim fans
(pre-installed; front fan flipped to intake)



168mm Air Cooler Setup

- 140mm ATX PSU + M-ATX motherboard
- 3 x Bottom fans
- 1 x Rear fan
- 2 x Top slim fans
(pre-installed; front fan flipped to intake)

Note: Air coolers up to 168mm are supported without the side fan bracket, or up to 162mm with the side fan bracket installed.

Image 8.1: Detailed specifications for the B4-mATX case.

Feature	Specification
Brand	Lian Li
Model Name	B4X
Color	Black
Dimensions (D x W x H)	16.02"D x 7.52"W x 11.34"H (420 x 191 x 288mm)
Material	Mesh, Steel 4.0mm
Motherboard Support	Micro-ATX, Mini ITX

Feature	Specification
Expansion Slots	4
Storage	Front: 2.5" SSD x 1; Bottom: 3.5" HDD x 1 or 2.5" SSD x 1
GPU Length Clearance	358mm
CPU Cooler Height Clearance	162mm (with side fan bracket), 168mm (without side fan bracket)
PSU Support	ATX (Up to 140mm) / SFX
Radiator Support	Side (With SFX PSU): 360mm / 280mm / 240mm; Side (With ATX PSU): 240mm
Fan Support	Top: 2x 120mm (pre-installed); Side (With SFX PSU): 2x 120mm / 2x 140mm; Side (With ATX PSU): 2x 120mm; Front (SFX PSU ONLY): 1x 120mm slim fan; Bottom: 3x 120mm / 2x 140mm; Rear: 1x 120mm
Included Fans	Top: 2x 120x120x15mm
Dust Filter	Bottom Magnetic Filter x 1, PVC Dust Filter x 1
I/O Ports	USB 3.0 Type A x 2, USB 3.2 Type C x 1, Audio x 1, Power Button x 1
Item Weight	11 pounds

9. WARRANTY AND SUPPORT

The Lian Li B4-mATX PC Case comes with a**1-Year Manufacturer Warranty**. For warranty claims, technical support, or further inquiries, please visit the official Lian Li website or contact their customer service department. Keep your proof of purchase for warranty validation.
Lian Li Official Website: www.lian-li.com

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question