

darkFlash DB460M

darkFlash DB460M Micro-ATX PC Gaming Case User Manual

Model: DB460M

Brand: darkFlash

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your darkFlash DB460M Micro-ATX PC Gaming Case. Designed for optimal airflow and ease of assembly, the DB460M offers a robust foundation for high-performance computing systems. Please read this manual thoroughly before beginning your PC build to ensure proper installation and safe operation.



Figure 1: darkFlash DB460M Micro-ATX PC Gaming Case (White)

2. PRODUCT FEATURES

- **High-Performance Hardware Support:** Accommodates GPUs up to 420mm in length, including high-end models, and supports top-mounted liquid cooling radiators up to 360mm.
- **Full-Mesh Front Panel:** Engineered for maximum airflow, ensuring efficient cooling for critical components during demanding tasks.
- **Tool-Free Clamshell Tempered Glass Side Panel:** Provides convenient, screw-free access to internal components for easy installation and upgrades. The clear tempered glass allows for showcasing your build.
- **Efficient Cable Management:** Features a full-length PSU shroud, dedicated cable routing channels, and tie-down points to maintain a clean interior and optimize airflow.
- **Versatile Cooling Options:** Supports multiple fan configurations and radiator sizes for both air and liquid cooling setups.

3. SETUP GUIDE

3.1 Unpacking and Initial Inspection

Carefully remove the case from its packaging. Inspect for any signs of damage during transit. Retain the packaging for future transport or warranty claims.

3.2 Motherboard Installation

1. Install the necessary motherboard standoffs for your Micro-ATX or ITX motherboard.
2. Carefully place the motherboard into the case, aligning it with the standoffs and the I/O shield opening.
3. Secure the motherboard with screws.

3.3 Power Supply Unit (PSU) Installation

1. Position the PSU in the dedicated bottom-mount compartment.
2. Secure the PSU to the rear of the case using screws.
3. Route necessary cables through the cutouts for efficient cable management.

3.4 Storage Drive Installation

The case supports 2.5" SSDs and 3.5" HDDs. Refer to the case's internal layout for specific mounting points. Typically, 2.5" drives mount on the motherboard tray or dedicated brackets, while 3.5" drives are installed in the PSU shroud area.

3.5 Graphics Processing Unit (GPU) Installation

1. Remove the appropriate PCI slot covers from the rear of the case.
2. Insert the GPU into the PCIe slot on the motherboard.
3. Secure the GPU with screws or the tool-less retention mechanism. The case supports GPUs up to 420mm in length.



Figure 2: GPU Length Support (Max 420mm)

3.6 Cooling System Installation (Fans & Radiators)

The DB460M offers extensive cooling support:

- **Top:** Supports up to 3x 120mm fans, 2x 140mm fans, or a 360mm/280mm/240mm radiator.
- **Front:** Supports up to 3x 120mm fans, 2x 140mm fans, or a 240mm radiator.
- **Rear:** Supports 1x 120mm fan.
- **Bottom:** Supports up to 2x 120mm fans.
- **Side:** Supports up to 2x 120mm fans.



Figure 3: Fan Support Locations

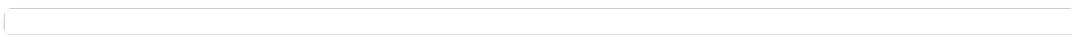


Figure 4: Radiator Support

3.7 Connecting Front Panel I/O

Connect the front panel cables (USB 3.0, USB 2.0, HD Audio, Power Switch, Reset Switch, Power LED, HDD LED) to the corresponding headers on your motherboard. Refer to your motherboard manual for exact pin assignments.



Figure 5: Front Panel I/O Ports (USB 3.0 highlighted)

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

Once all components are installed and connected, press the power button on the front I/O panel to turn on your system. To power off, use the operating system's shutdown function or press and hold the power button for several seconds.

4.2 Airflow Optimization

The DB460M is designed for high airflow. Ensure that fans are installed in appropriate intake and exhaust configurations to maximize cooling efficiency. The full-mesh front panel facilitates significant air intake.



Figure 6: Airflow Diagram

5. MAINTENANCE

5.1 Cleaning Dust Filters

Regularly clean the removable dust filters located on the front, top, and bottom of the case to maintain optimal airflow and prevent dust buildup inside your system. Gently remove the filters and clean them with compressed air or a soft brush.

5.2 Cleaning Exterior Surfaces

Use a soft, damp cloth to clean the exterior surfaces of the case. Avoid abrasive cleaners or solvents that may damage the finish or tempered glass.

5.3 Side Panel Removal

The tool-free clamshell tempered glass side panel can be easily opened or removed for access to internal components. Gently pull the panel open from the rear to unlatch it. To fully remove, lift it upwards from its hinges.

6. TROUBLESHOOTING

- **System not powering on:** Check all power connections, including the PSU to the wall, PSU to motherboard, and front panel power switch cable to the motherboard.
- **No display output:** Ensure the GPU is correctly seated and connected to the power supply. Verify the monitor cable is securely connected to the GPU.
- **Overheating components:** Confirm all fans are spinning and installed in the correct orientation for airflow. Ensure CPU cooler and GPU fans are functioning. Clean dust filters.
- **Loose components:** If you hear rattling or notice instability, power down the system and check that all components (motherboard, GPU, drives) are securely fastened.

For more complex issues, consult the manuals for your individual PC components (motherboard, GPU, PSU) or seek professional assistance.

7. SPECIFICATIONS

Feature	Detail
Model Name	DF-DB460M-WH-NF
Case Type	Mid Tower
Motherboard Compatibility	Micro ATX, ITX
Material	Metal, Plastic, Tempered Glass
Color	White
Item Weight	13.3 Pounds (approx. 6.03 kg)
GPU Clearance	Up to 420mm
CPU Cooler Height	Up to 174mm
Power Supply Mounting	Bottom Mount
Cooling Method	Air, Water
Radiator Support (Top)	360mm / 280mm / 240mm
Radiator Support (Front)	240mm
Fan Support (Top)	3x 120mm or 2x 140mm
Fan Support (Front)	3x 120mm or 2x 140mm
Fan Support (Rear)	1x 120mm
Fan Support (Bottom)	2x 120mm
Fan Support (Side)	2x 120mm
Drive Bays (3.5" HDD)	2 (Max)
Drive Bays (2.5" SSD)	2 (Max)
Expansion Slots	4
Front I/O Ports	1x USB 3.0, 2x USB 2.0, HD Audio, Power, Reset
Special Features	Dust Filter, Noise Reduction Technology, Partition Plate Cooling Technology

Figure 7: Case Dimensions and Specifications Overview

8. WARRANTY INFORMATION

The darkFlash DB460M Micro-ATX PC Gaming Case comes with a **1 Year Manufacturer Warranty**. Please retain your proof of purchase for any warranty claims. For specific terms and conditions, refer to the official darkFlash website or contact customer support.

9. SUPPORT & CONTACT

For further assistance, technical support, or to view additional product resources, please visit the official darkFlash website:

www.darkflash.com

You may also refer to the official product video for a visual guide on the case features and build possibilities:

Your browser does not support the video tag.

Video: darkFlash DB460M Mid-Tower PC Gaming Case Overview. This video provides a visual demonstration of the case's features and internal layout.