

darkFlash L280

darkFlash L280 ATX Mid-Tower PC Case Instruction Manual

INTRODUCTION

Welcome to your new darkFlash L280 ATX Mid-Tower PC Case. This manual provides detailed instructions for assembly, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your system. The darkFlash L280 features a unique three-side tempered glass design, an integrated digital display for real-time system monitoring, and comes with four pre-installed PWM ARGB fans for efficient cooling and customizable aesthetics.

Your browser does not support the video tag.

Official darkFlash video showcasing the L280 ATX PC Case with its three-side glass design and key features.

1. SETUP AND INSTALLATION

1.1 Unpacking and Inspection

Carefully remove the PC case from its packaging. Inspect the case for any damage that may have occurred during transit. Ensure all included accessories, such as screws and cables, are present.

1.2 Removing Panels

The darkFlash L280 features three tempered glass panels (front, left side, and right side). To access the interior for component installation, gently detach these panels. They are designed for easy removal. Refer to the image below for guidance on panel removal.

UPGRADED DESIGN



Three Side
Glass Panel



Curved Glass
Design



Digital Display
Screen

Image showing the darkFlash L280 PC case with its three tempered glass panels being detached, illustrating the removal process for internal access.

1.3 Motherboard Installation

This case supports ATX and Micro ATX motherboards. Install the necessary standoffs into the motherboard tray according to your motherboard's form factor. Carefully place your motherboard onto the standoffs and secure it with the provided screws.

1.4 Component Installation (GPU, Radiator, PSU, Drives)

- **Graphics Card (GPU):** The spacious interior accommodates graphics cards up to 410mm in length. Install your graphics card into the appropriate PCIe slot on your motherboard and secure it with the retention mechanism or screws.
- **Liquid Cooling Radiator:** The case supports radiators up to 360mm. Mount your liquid cooling radiator and its fans in the designated areas, typically the top or front of the chassis. Refer to the internal layout diagram for optimal placement.
- **Power Supply Unit (PSU):** The PSU mounts at the bottom of the case. Slide your power supply into its designated bay and secure it with screws from the rear of the chassis.
- **Storage Drives:** The chassis supports up to 3 SSDs and 2 HDDs. Utilize the designated mounting points

and trays for your 2.5-inch SSDs and 3.5-inch HDDs.

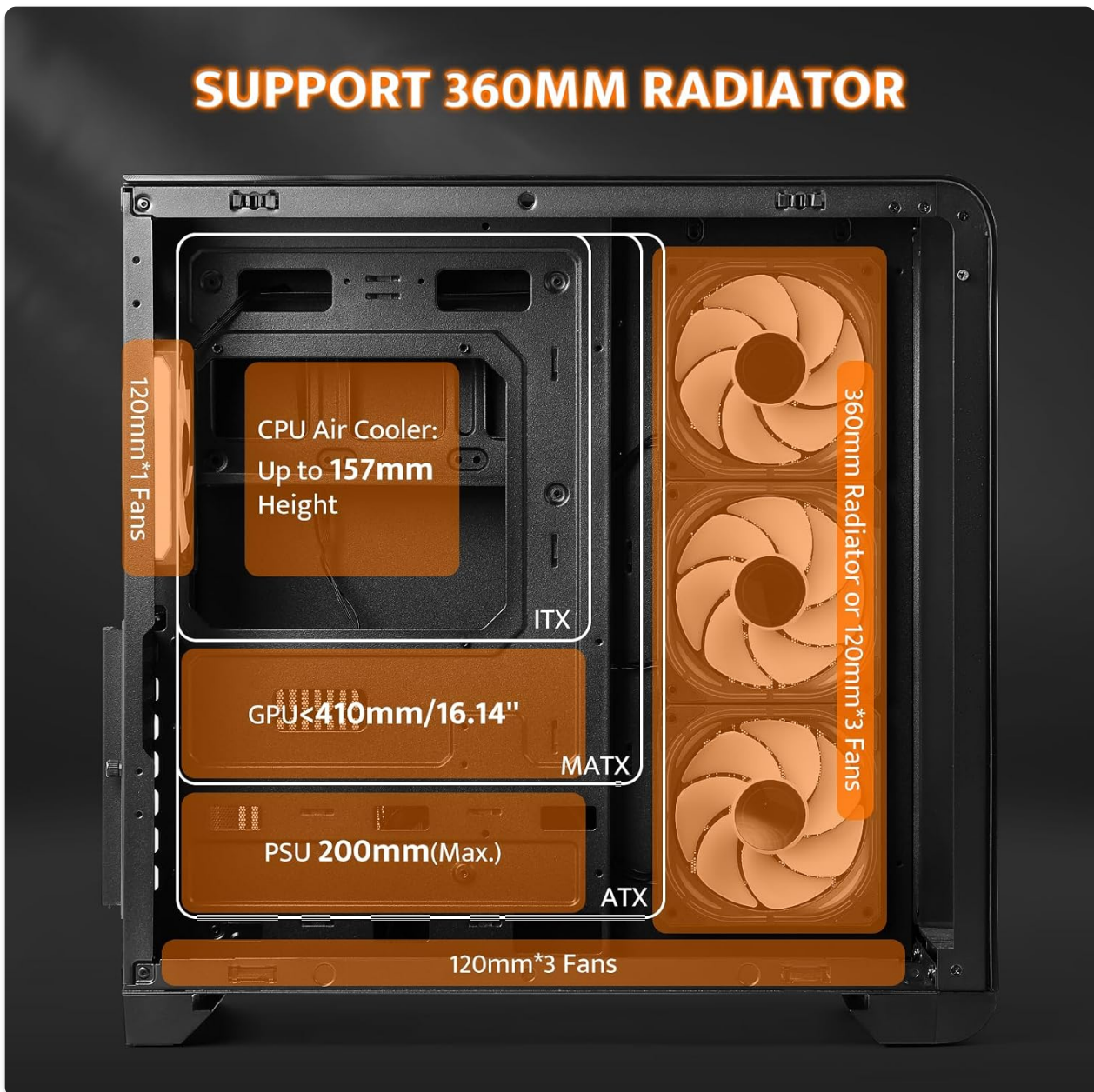


Diagram illustrating the internal dimensions and component compatibility of the darkFlash L280 case, including support for 360mm radiators, GPUs up to 410mm, and PSUs up to 200mm.

1.5 Cable Management

Utilize the back positioning holes and the ample space behind the motherboard tray for efficient cable routing. Proper cable management improves internal airflow and enhances the aesthetic appeal of your build.

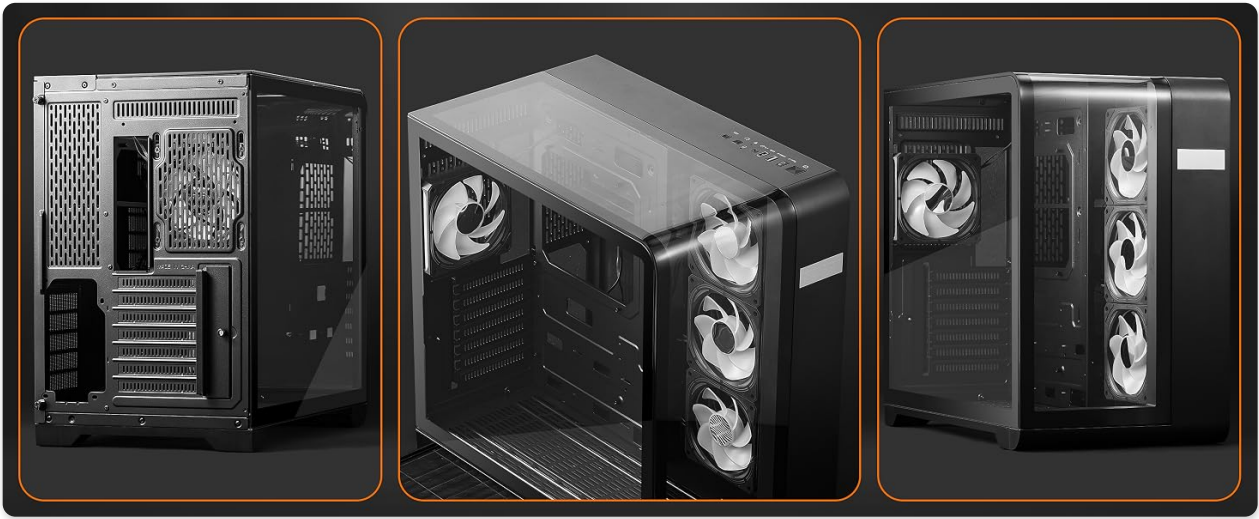
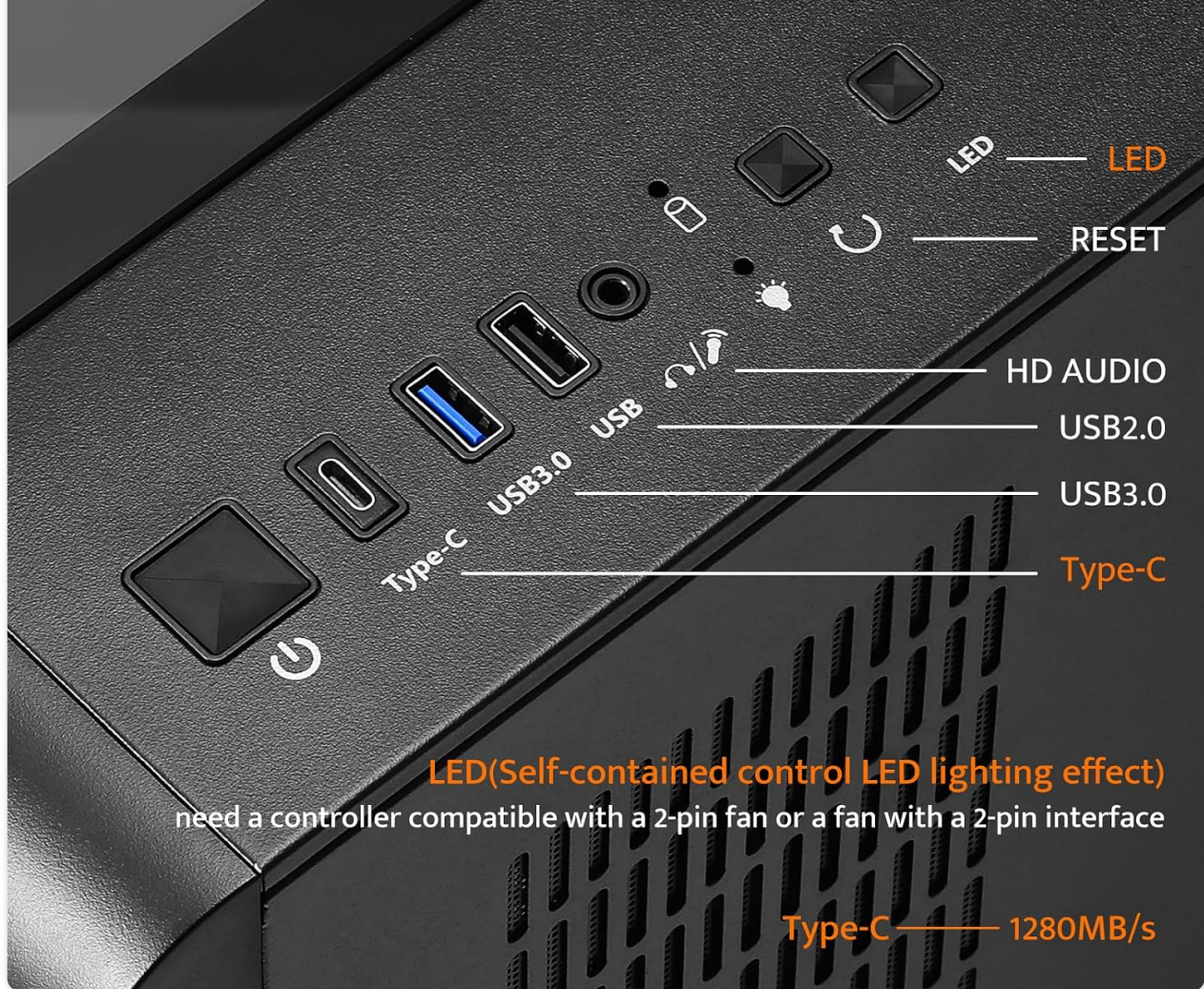


Image showcasing the rear of the darkFlash L280 PC case, highlighting cable management routing options and mounting locations for HDDs and SSDs, along with the pull-out dust filter.

1.6 Connecting Front Panel I/O and Digital Display

Connect the front panel cables (USB 3.0, USB 2.0, Type-C, HD Audio, Power, Reset, LED) to their respective headers on your motherboard. The integrated digital display for CPU/GPU temperature monitoring connects to the motherboard via a USB 2.0 header. Specific software may be required for the display to function correctly; refer to your motherboard manual or darkFlash support for details.

EXQUISITE TEXTURE & HIGH SPEED IO PANEL



LED(Self-contained control LED lighting effect)
need a controller compatible with a 2-pin fan or a fan with a 2-pin interface

Type-C — 1280MB/s

Close-up view of the darkFlash L280's front I/O panel, detailing the Type-C, USB 3.0, USB 2.0, HD Audio, LED, Reset, and Power buttons.

DIGITAL DISPLAY SCREEN

Real-time display of CPU/GPU temperature and usage for system control

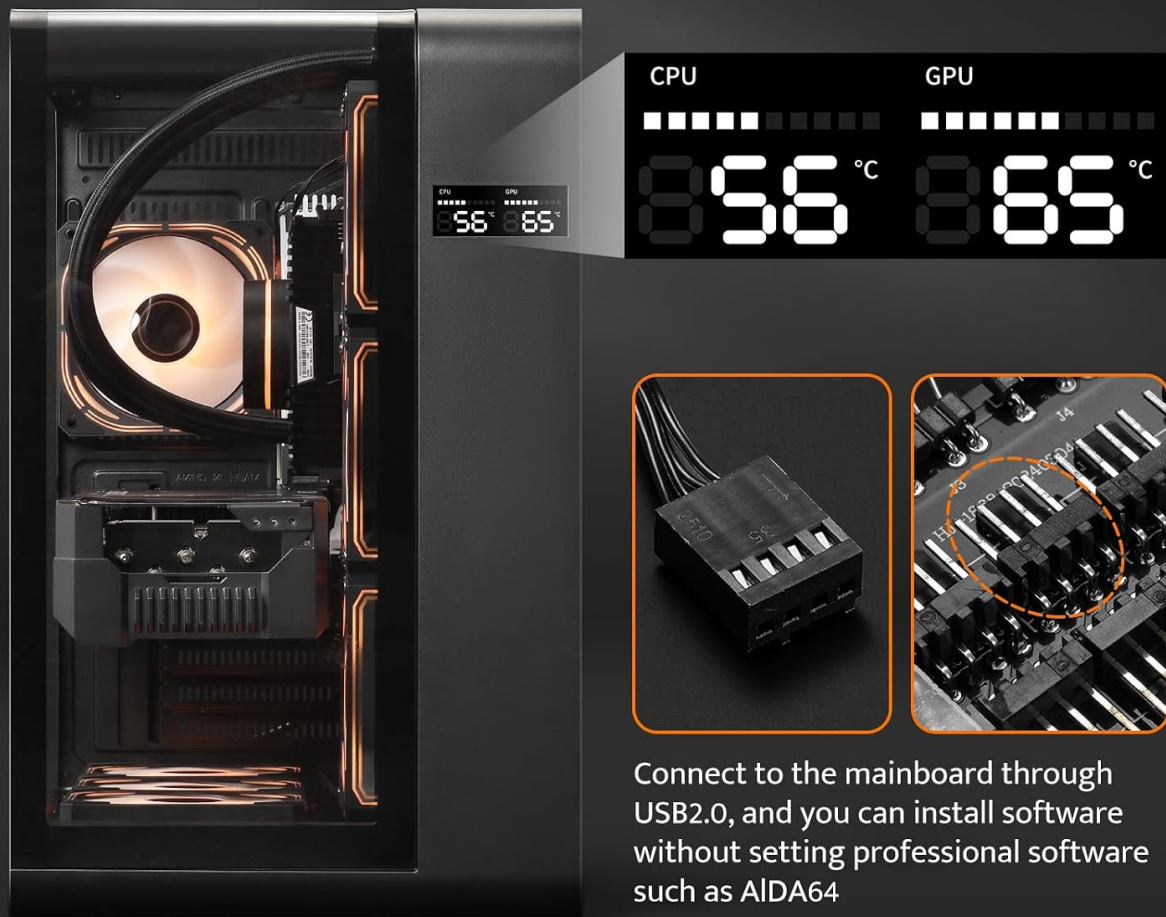


Image detailing the digital display screen on the darkFlash L280 PC case, showing real-time CPU and GPU temperature readings and the USB 2.0 connection point for the display.

1.7 Fan Connections

The case comes with 4 pre-installed PWM ARGB fans. Connect these fans to your motherboard's fan headers for power and speed control, and to the ARGB headers for lighting control. Note that an RGB Hub Controller is not included with the case and may be required for advanced lighting synchronization or if your motherboard has limited ARGB headers.



Image displaying the darkFlash L280 PC case with its four ARGB fans illuminated, alongside a monitor showing lighting control software, emphasizing customizable lighting effects.

2. OPERATION

2.1 Powering On

After all components are securely installed and connected, press the power button located on the front I/O panel to start your system.

2.2 Digital Display Monitoring

The integrated digital display provides real-time monitoring of your CPU and GPU temperatures and usage. This feature assists in assessing system performance and thermal conditions at a glance.

2.3 ARGB Fan Control

The pre-installed ARGB fans can be controlled via your motherboard's RGB software, provided your motherboard has compatible ARGB headers. An external RGB controller (not included) may offer additional customization options for lighting effects and synchronization.

3. MAINTENANCE

3.1 Dust Filter Cleaning

The darkFlash L280 includes a removable dust filter located at the bottom of the case. Regularly pull out and clean this filter to prevent dust buildup within the system, which helps maintain optimal airflow and component longevity.

3.2 Glass Panel Cleaning

To clean the tempered glass panels, use a soft, lint-free microfiber cloth and a mild glass cleaner. Avoid using abrasive materials or harsh chemicals that could scratch or damage the glass surface.

3.3 General Cleaning

Periodically use compressed air to clear dust from internal components, fan blades, and ventilation grilles. This ensures efficient cooling and prevents thermal issues.

4. TROUBLESHOOTING

4.1 No Power

- Ensure the Power Supply Unit (PSU) is properly connected to the wall outlet and switched on.
- Verify that all front panel power cables are correctly attached to the corresponding headers on your motherboard.
- Check all internal power connections, including the 24-pin ATX power, CPU power, and GPU power cables.

4.2 Fans Not Spinning / ARGB Not Lighting Up

- Check all fan power and ARGB connections to the motherboard or any installed fan/RGB controller.
- Ensure your motherboard's BIOS/UEFI settings or RGB software are correctly configured for fan speed and lighting control.
- Confirm that any external RGB hub or controller is properly powered and connected.

4.3 Digital Display Not Working

- Verify the USB 2.0 header connection from the digital display to the motherboard.
- Install any necessary software or drivers for the display, if applicable, as specified by darkFlash or your motherboard manufacturer.

4.4 Overheating Components

- Ensure all case fans are functioning correctly and are oriented to provide optimal airflow (intake and exhaust).
- Regularly clean dust filters and internal components to prevent dust buildup, which can restrict airflow.
- Verify the proper installation and seating of your CPU cooler and GPU to ensure adequate thermal contact.

HIGH-AIRFLOW PERFORMANCE

4 Airflow Channels



Image illustrating the airflow channels within the darkFlash L280 PC case, showing air intake and exhaust paths for high-airflow performance.

5. SPECIFICATIONS

Feature	Detail
Brand	darkFlash
Model Name	L280
Case Type	Mid Tower
Motherboard Compatibility	ATX, Micro ATX
Material	Metal, Tempered Glass
Dimensions (D x W x H)	11.02"D x 16.22"W x 16.34"H

Feature	Detail
Item Weight	16.53 Pounds
Pre-installed Fans	4 x PWM ARGB Fans
GPU Clearance	Up to 410mm
Radiator Support	Up to 360mm
PSU Mounting Type	Bottom Mount
Drive Bays	3 x SSD, 2 x HDD
Expansion Slots	7
Front I/O	Type-C, USB 3.0 (x2), USB 2.0 (x2), HD Audio, LED Control, Reset, Power
Special Features	Digital Display (CPU/GPU Temp), Full View Curved Glass, Dust Filter

6. WARRANTY AND SUPPORT

6.1 Warranty Information

The darkFlash L280 PC Case comes with a 1-year manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for all warranty claims.

6.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official darkFlash website or contact their customer support directly. You can also find more information and resources by visiting the darkFlash Store on Amazon:

[Visit the darkFlash Store on Amazon](#)