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› Ant Esports Crystal Z3 Mid-Tower Computer Case Instruction Manual

Ant Esports Crystal Z3

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Model: Crystal Z3

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Ant Esports Crystal Z3 Mid-Tower Computer Case. Please read this guide thoroughly before beginning assembly to ensure proper setup and safe usage. This case is designed to support ATX, M-ATX, and ITX motherboards, offering ample space for various components and efficient cooling solutions.



Figure 1: Ant Esports Crystal Z3 Mid-Tower Computer Case overview.

SAFETY PRECAUTIONS

- Always disconnect the power supply from the wall outlet before installing or removing any components.
- Handle tempered glass panels with care to prevent breakage.
- Wear anti-static wrist straps to prevent electrostatic discharge (ESD) damage to sensitive components.
- Keep small parts and tools away from children.
- Ensure proper ventilation around the case to prevent overheating.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Ant Esports Crystal Z3 Mid-Tower Computer Case

- Accessory box (screws, standoffs, cable ties)
- Pre-installed 3 ARGB Fans (120mm)

SETUP AND INSTALLATION

1. Preparing the Case

Carefully remove the tempered glass side panel and the rear metal panel to access the interior of the case. These panels are designed for easy removal to facilitate hardware installation and cable management.

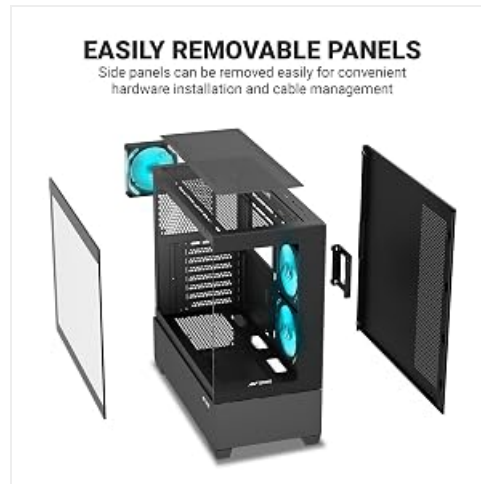


Figure 2: Side panels can be removed easily for convenient hardware installation and cable management.

2. Motherboard Installation

Install the appropriate standoffs for your motherboard size (ATX, M-ATX, or ITX). Carefully place your motherboard into the case, aligning it with the standoffs and the I/O shield opening. Secure the motherboard with screws.



Figure 3: Hardware support for CPU cooler height (165mm max) and VGA card length (415mm max).

3. Storage Drive Installation

The Crystal Z3 supports 2 x 3.5" HDDs and 1 x 2.5" SSD. Mount your storage drives in the designated bays. For 3.5" HDDs, use the drive cage located at the bottom. For 2.5" SSDs, use the dedicated mounting point.



Figure 4: Locations for 3.5" HDDs, 2.5" SSD, and Power Supply Unit (PSU) with 200mm clearance.

4. Power Supply Unit (PSU) Installation

Install your PSU into the bottom mount compartment. Secure it with screws from the rear of the case. Ensure all necessary cables are routed through the cable management cutouts.

5. Expansion Card Installation (GPU, etc.)

Remove the necessary expansion slot covers from the rear of the case. Insert your graphics card or other expansion cards into the PCIe slots on your motherboard and secure them with screws. The case supports 7 expansion slots.

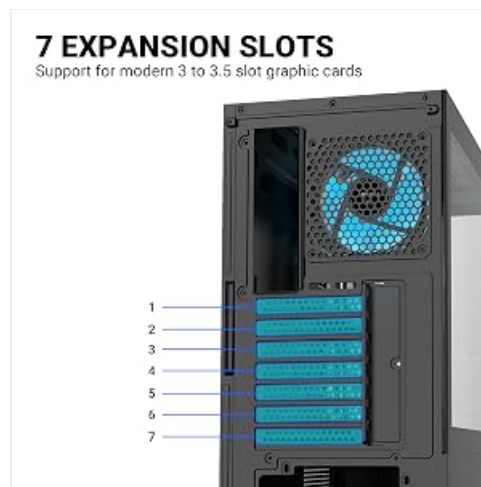


Figure 5: The case provides 7 expansion slots for graphics cards and other add-on cards.

6. Fan and Cooling System Installation

The Crystal Z3 comes with 3 pre-installed 120mm ARGB fans. Additional fans and liquid cooling radiators can be installed as per the specifications. For optimal cooling, install fans in a positive air pressure configuration (more intake than exhaust).

- **Fan Support:** Top (3 x 120mm), Bottom (3 x 120mm), Rear (1 x 120mm), Side (2 x 120mm).
- **Liquid Cooling Support:** Top (240/280/360mm), Rear (120mm).



Figure 6: Recommended fan installation for positive air pressure configuration to optimize cooling performance.



Figure 7: The case supports up to 9 fans and 360mm liquid coolers for superior thermal performance.

7. Cable Management

Utilize the cable routing cutouts and tie-down points behind the motherboard tray to organize cables. This improves airflow and aesthetics.

OPERATING INSTRUCTIONS

Front I/O Panel Functions

The Ant Esports Crystal Z3 features a conveniently located I/O panel for easy access to essential ports and controls.

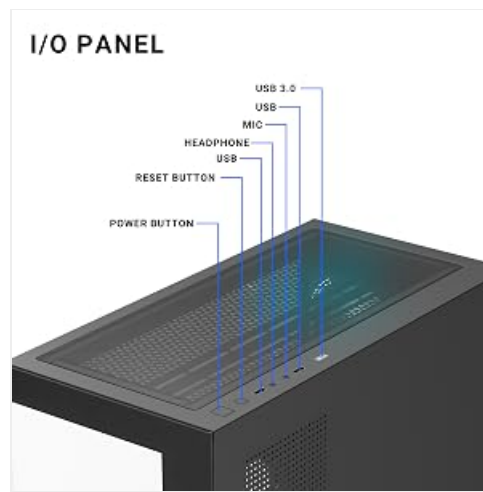


Figure 8: Front I/O Panel with USB 3.0, USB 2.0, Audio, Mic, Power, and Reset buttons.

- **Power Button:** Press to turn the computer on or off.
- **Reset Button:** Press to restart the computer.
- **USB 3.0 Port (x1):** For high-speed data transfer with compatible devices.
- **USB 2.0 Ports (x2):** For connecting peripherals such as keyboards, mice, or other USB devices.
- **Audio Jack:** For connecting headphones or speakers.
- **Microphone Jack:** For connecting a microphone.

Ensure all I/O panel cables are correctly connected to your motherboard headers during installation.

MAINTENANCE

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

- **Dust Filter Cleaning:** The case includes dust filters to prevent dust buildup. Periodically remove and clean these filters with compressed air or water (ensure they are completely dry before reinstallation).
- **Interior Cleaning:** Use compressed air to remove dust from internal components and fans. Avoid using liquid cleaners directly on electronic parts.
- **Exterior Cleaning:** Wipe the exterior surfaces with a soft, damp cloth. Avoid abrasive cleaners that may scratch the finish or tempered glass.

TROUBLESHOOTING

If you encounter issues with your Ant Esports Crystal Z3 case, consider the following common troubleshooting steps:

- **No Power:**
 - Ensure the PSU is properly connected to the wall outlet and switched on.
 - Verify all power cables from the PSU are securely connected to the motherboard and components.
 - Check that the front panel power button cable is correctly connected to the motherboard's front panel header.
- **Fans Not Spinning/ARGB Not Lighting Up:**
 - Confirm fan power cables are connected to the motherboard or fan controller.
 - Check ARGB cables are connected to the motherboard's ARGB header or a dedicated ARGB controller.
 - Ensure fan headers are enabled in the BIOS/UEFI settings.

• **USB Ports Not Functioning:**

- Verify the USB 3.0 and USB 2.0 front panel cables are correctly connected to the corresponding headers on your motherboard.

• **Audio Jacks Not Working:**

- Ensure the HD Audio front panel cable is securely connected to the motherboard's audio header.
- Check audio settings in your operating system.

For further assistance, refer to your motherboard manual or contact Ant Esports customer support.

SPECIFICATIONS

Detailed technical specifications for the Ant Esports Crystal Z3 Mid-Tower Computer Case:

Feature	Detail
Product Dimensions (L x W x H)	435 x 218 x 454 mm
Motherboard Compatibility	ATX, M-ATX, ITX
Materials	ABS + SPCC + Tempered Glass
Drive Bays	2 x 3.5" HDD, 1 x 2.5" SSD
Expansion Slots	7
Fan Support (Top)	3 x 120mm
Fan Support (Bottom)	3 x 120mm
Fan Support (Rear)	1 x 120mm
Fan Support (Side)	2 x 120mm
Liquid Cooling Support (Top)	240mm / 280mm / 360mm
Liquid Cooling Support (Rear)	120mm
Pre-installed Fans	3 x 120mm ARGB (2 Side, 1 Rear)
VGA Card Length (Maximum)	415 mm
CPU Cooler Height (Maximum)	165 mm
I/O Panel	1 x USB 3.0, 2 x USB 2.0, 1 x Audio, 1 x Mic, Power & Reset Button
Special Features	Dust Filter, Tempered Glass Front & Side Panel
Item Weight	5.9 Kilograms



Figure 9: Detailed specifications table for the Crystal Z3 case.



Figure 10: Product dimensions of the Ant Esports Crystal Z3 case.

WARRANTY INFORMATION

The Ant Esports Crystal Z3 Mid-Tower Computer Case comes with a**1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and material faults under normal use. It does not cover damage caused by misuse, accident, modification, or unauthorized repair.

Please retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical support, warranty claims, or any inquiries regarding your Ant Esports Crystal Z3 computer case, please contact:

- **Manufacturer:** Ant Esports
- **Importer:** Acro Engineering Company
- Refer to the official Ant Esports website for the most current contact information.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

