

ID-COOLING SE-224-XTS

ID-COOLING SE-224-XTS CPU Air Cooler Instruction Manual

Model: SE-224-XTS

For Intel LGA1700/115X/1200 & AMD AM4/AM5 Sockets

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1. INTRODUCTION

Thank you for choosing the ID-COOLING SE-224-XTS CPU Air Cooler. This manual provides detailed instructions for the proper installation, operation, and maintenance of your new CPU cooler. Please read this manual thoroughly before installation to ensure optimal performance and longevity of your product.

Package Contents

- Heatsink
- Cooling Fan (120mm PWM)
- Mounting Hardware for Intel LGA1700/1200/115X and AMD AM4/AM5
- Thermal Paste



Image: The ID-COOLING SE-224-XTS CPU Air Cooler, showcasing its black heatsink and 120mm fan.

2. INSTALLATION GUIDE

Before beginning installation, ensure your system is powered off and unplugged. Refer to your motherboard manual for specific details regarding CPU socket and fan header locations. It is recommended to install the CPU cooler before installing the motherboard into the PC case.

General Installation Steps:

1. Prepare the CPU socket by cleaning any old thermal paste if applicable.
2. Install the appropriate mounting brackets and standoffs for your CPU socket type (Intel or AMD).
3. Apply thermal paste to the center of the CPU's integrated heat spreader (IHS).
4. Mount the heatsink onto the CPU, ensuring even pressure.
5. Attach the 120mm PWM fan to the heatsink using the provided clips.
6. Connect the fan's 4-pin power cable to the 'CPU_FAN' header on your motherboard.

Socket-Specific Installation Videos:

AMD AM5 Installation

Video: Detailed guide on installing the SE-224-XTS CPU cooler onto an AMD AM5 motherboard. This video demonstrates removing the plastic retention, installing brackets, applying thermal grease, mounting the heatsink, and connecting the fan cables.

AMD AM4 Installation

Video: Step-by-step instructions for installing the SE-224-XTS CPU cooler on an AMD AM4 motherboard. This video covers removing the plastic retention frame, installing standoffs and brackets, applying thermal grease, mounting the heatsink, and connecting the fan cables.

Intel LGA1700 Installation

Video: A guide demonstrating the installation of the SE-224-XTS CPU cooler on an Intel LGA1700 motherboard. This video illustrates putting on the backplate, installing standoffs and brackets, applying thermal grease, mounting the heatsink, and connecting the fan cables.

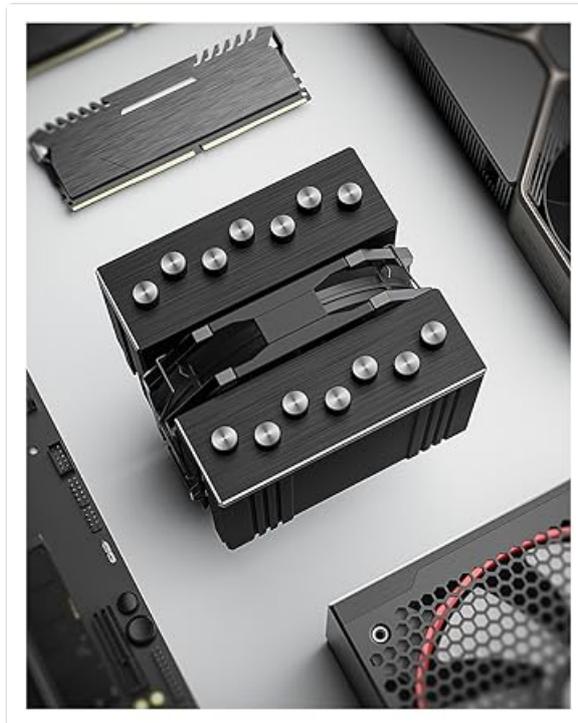


Image: The heatsink's slant design ensures non-interference with RAM modules, even on compact mini-ITX motherboards.

3. OPERATION

The ID-COOLING SE-224-XTS is designed for efficient and quiet CPU cooling. Once properly installed, the cooler operates automatically based on your system's thermal demands.

PWM Fan Control

The included 120mm fan utilizes Pulse Width Modulation (PWM) technology, allowing your motherboard to dynamically control its speed. This ensures optimal cooling performance when needed and reduced noise levels during lighter loads. The fan operates with a maximum airflow of 70 CFM and a maximum noise level of 28.9 dB(A).



Image: Close-up of the 120mm PWM fan, highlighting its design for quiet operation.

Direct Contact Heat Pipes

The cooler features four direct contact heat pipes that efficiently transfer heat away from your CPU to the heatsink fins. This design maximizes thermal conductivity, ensuring your CPU remains cool even under heavy workloads.



Image: Diagram illustrating the direct contact heat pipe technology for efficient heat transfer from the CPU.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your ID-COOLING SE-224-XTS CPU cooler.

Cleaning the Fan and Heatsink

- **Frequency:** Inspect every 3-6 months, or more frequently in dusty environments.
- **Procedure:**
 - a. Power off your computer and unplug it from the wall outlet.
 - b. Carefully remove the side panel of your PC case.
 - c. Using compressed air, gently blow dust out of the heatsink fins and fan blades. Hold the fan blades to prevent them from spinning excessively during cleaning, which can damage the bearings.
 - d. For stubborn dust, use a soft brush or cotton swab.
 - e. Reattach the side panel and power on your computer.

Thermal Paste Reapplication

Thermal paste typically lasts for several years. However, if you notice a significant increase in CPU temperatures, reapplication may be necessary. This involves carefully removing the heatsink, cleaning off old thermal paste from both the CPU and heatsink base, and applying a fresh layer before re-mounting.

5. SPECIFICATIONS

Feature	Detail
Model Number	SE-224-XTS
Product Dimensions	5.94"H
Cooling Method	Air
Material	Aluminum
Heat Pipes	4 Direct Contact
Fan Size	120mm
Fan Type	PWM
Maximum Rotational Speed	1150 RPM
Air Flow Capacity	70 Cubic Feet Per Minute (CFM)
Noise Level	28.9 Decibels (Max)
Power Connector Type	4-pin

Feature	Detail
Voltage	12 Volts
Wattage	220 watts
Compatible Devices	Desktop
Socket Compatibility	Intel LGA1700/1200/1150/1151/1155/1156, AMD AM4/AM5

6. TROUBLESHOOTING

If you encounter issues with your ID-COOLING SE-224-XTS CPU cooler, refer to the following common problems and solutions:

High CPU Temperatures

- **Check Thermal Paste:** Ensure thermal paste was applied correctly and evenly. Reapply if necessary.
- **Heatsink Contact:** Verify the heatsink is securely mounted and making full contact with the CPU. Tighten mounting screws crosswise.
- **Fan Operation:** Confirm the fan is spinning. Check the fan cable connection to the 'CPU_FAN' header on the motherboard.
- **Airflow:** Ensure adequate airflow within your PC case. Check for obstructions and proper case fan configuration.

Excessive Fan Noise

- **Dust Buildup:** Clean the fan blades and heatsink fins as described in the Maintenance section.
- **Fan Profile:** Adjust the fan speed curve in your motherboard's BIOS/UEFI settings to a quieter profile if temperatures allow.
- **Obstructions:** Check for any cables or components touching the fan blades.

Fan Not Spinning

- **Power Connection:** Ensure the 4-pin fan cable is securely connected to the 'CPU_FAN' header on the motherboard.
- **BIOS Settings:** Check BIOS/UEFI settings to ensure the CPU fan header is enabled and configured correctly.
- **Damage:** If the fan still does not spin after checking connections and settings, it may be faulty and require replacement.

7. WARRANTY AND SUPPORT

ID-COOLING products are manufactured to the highest quality standards. For warranty information and technical support, please refer to the official ID-COOLING website or contact their customer service directly.

Keep your proof of purchase for warranty claims.

Contact Information: Please visit the official ID-COOLING website for the most up-to-date support resources and contact details.