

Akasa AK-CC7129BP01

Akasa AK-CC7129BP01 Low Profile Intel CPU Cooler User Manual

Model: AK-CC7129BP01

1. INTRODUCTION

The Akasa AK-CC7129BP01 is an ultra-compact and low-noise CPU cooler specifically designed for Intel Core 2 Duo, Core i3, and Core i5 processors. Its low-profile design, with an embedded fan, makes it an ideal cooling solution for space-constrained systems such as Thin mini-ITX, Home Theater Personal Computers (HTPC), and Small Form Factor (SFF) cases. This cooler combines an aluminum heatsink with a durable twin ball bearing fan to ensure efficient heat dissipation and long-term reliability.

2. PRODUCT FEATURES

- Embedded 8cm PWM fan with long-life twin ball bearing for quiet and efficient operation.
- Pre-applied spring-loaded screws and motherboard backplate for secure and easy installation.
- Dual mounting compatibility for Intel LGA775, LGA1150, LGA1155, and LGA1156 platforms.
- High-performance thermal interface material is pre-applied to the heatsink base, simplifying installation.
- Total height of only 21mm, ensuring compatibility with very slim chassis.

3. PACKAGE CONTENTS

Please verify that all components are present before proceeding with installation.

- Akasa AK-CC7129BP01 CPU Cooler (with pre-applied thermal compound and mounting hardware)
- Motherboard Backplate

4. SPECIFICATIONS

Feature	Specification
Brand	Akasa

Feature	Specification
Model Number	AK-CC7129BP01
Compatible Devices	Desktop (Intel LGA775, LGA1150, LGA1155, LGA1156)
Cooling Method	Air Cooling
Material	Aluminum
Fan Size	8cm (80mm)
Maximum Rotational Speed	1500 RPM
Noise Level	30.75 Decibels
Power Connector Type	4-Pin PWM
Voltage	12 Volts
Wattage	95 watts (TDP)
Product Dimensions (LxWxH)	3.35 x 3.43 x 0.83 inches (85 x 87 x 21 mm)
Item Weight	5.4 ounces (153 grams)

5. SETUP AND INSTALLATION

Important: Always ensure your computer is powered off and unplugged from the wall outlet before installing any internal components. Refer to your motherboard manual for specific CPU socket and clearance information.

5.1 Pre-Installation

- Unpack the Akasa AK-CC7129BP01 cooler and verify all components are present.
- Ensure your CPU socket (LGA775, LGA1150, LGA1155, or LGA1156) is clean and free of any debris.
- The cooler comes with high-performance thermal compound pre-applied to its base. Do not remove this layer. If you need to reapply thermal paste in the future, clean the old paste thoroughly before applying new compound.

5.2 Installation Steps

Follow these steps for secure installation:

- Prepare Motherboard:** Place the included motherboard backplate on the underside of your motherboard, aligning the holes with the CPU cooler mounting holes.
- Position Cooler:** Carefully place the Akasa AK-CC7129BP01 cooler onto the CPU, ensuring the pre-applied thermal compound makes full contact with the CPU's integrated heat spreader (IHS). Align the spring-loaded screws on the cooler with the holes on the motherboard and backplate.
- Secure Cooler:** Gently press down on the cooler and tighten the four spring-loaded screws in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left). Tighten each screw a few turns at a time until all are snug. Do not overtighten, as this can damage the motherboard or CPU. The spring mechanism ensures optimal mounting pressure.
- Connect Fan Cable:** Locate the 4-pin CPU fan header on your motherboard. Connect the cooler's 4-pin PWM fan cable to this header. Ensure the connector is fully seated.



Figure 1: Top view of the Akasa AK-CC7129BP01 cooler, showing the fan and mounting screws.



Figure 2: Angled view of the Akasa AK-CC7129BP01 cooler, highlighting the aluminum heatsink fins and fan.



Figure 3: Close-up view of the fan blades and heatsink fins, demonstrating the compact design.



Figure 4: Detailed view of the Akasa branding on the fan hub.

6. OPERATING INSTRUCTIONS

Once installed and connected, the Akasa AK-CC7129BP01 CPU cooler operates automatically. The 4-pin PWM connection allows your motherboard to control the fan speed based on CPU temperature, ensuring optimal cooling performance while minimizing noise levels. No manual configuration is typically required for basic operation.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your CPU cooler.

- **Dust Removal:** Periodically inspect the heatsink fins and fan blades for dust accumulation. Use compressed air or a soft brush to gently remove dust. Ensure the fan is held stationary while cleaning with compressed air to prevent over-spinning and potential damage.
- **Fan Check:** Occasionally check that the fan is spinning freely and quietly. If you notice unusual noises or reduced fan

speed, inspect for obstructions or wear.

- **Thermal Compound:** The pre-applied thermal compound is designed for long-term use. Reapplication is generally not necessary unless the cooler is removed and reinstalled. If reapplication is required, clean both the CPU and cooler base thoroughly with isopropyl alcohol before applying a new, thin layer of high-quality thermal compound.

8. TROUBLESHOOTING

If you encounter issues with your CPU cooler, consider the following:

- **High CPU Temperatures:**
 - Ensure the cooler is securely mounted and making proper contact with the CPU.
 - Verify the fan cable is correctly connected to the motherboard's CPU fan header.
 - Check for excessive dust buildup on the heatsink and fan.
 - Confirm that the system's airflow is adequate.
- **Fan Not Spinning:**
 - Check the fan cable connection to the motherboard.
 - Ensure the motherboard's CPU fan header is enabled in the BIOS/UEFI settings.
 - Inspect for any physical obstructions preventing the fan from spinning.
- **Excessive Fan Noise:**
 - Check for dust or debris interfering with the fan blades.
 - Ensure the fan is securely attached and not vibrating against other components.
 - Verify that the fan speed is being controlled by PWM and not running at maximum RPM constantly. Adjust fan curves in BIOS/UEFI if necessary.

9. WARRANTY AND SUPPORT

Akasa products are manufactured to high standards and are covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, duration, and to access technical support, please visit the official Akasa website or contact your local retailer. Keep your proof of purchase for warranty claims.

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