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› Thermalright TL-C14C-S 140mm ARGB PWM Case Fan Instruction Manual

Thermalright TL-C14C-S

Thermalright TL-C14C-S 140mm ARGB PWM Case Fan Instruction Manual

Model: TL-C14C-S

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Thermalright TL-C14C-S 140mm ARGB PWM Case Fan. This high-performance cooling fan is designed to enhance airflow and thermal management within your computer system, featuring an S-FDB bearing for quiet operation and addressable RGB lighting for aesthetic customization. Please read this manual thoroughly before installation and use.

2. PRODUCT FEATURES

- **High Performance Cooling:** 140mm fan with a maximum speed of 1500 RPM, delivering up to 75.8 CFM airflow and 1.93 mm H₂O static pressure for effective heat dissipation.
- **Quiet Operation:** Equipped with an S-FDB (Fluid Dynamic Bearing) for reduced friction and noise, maintaining a low noise level of 26.4 dBA.
- **PWM Control:** 4-pin PWM connector allows for precise fan speed control via the motherboard, optimizing performance and noise levels.
- **Addressable RGB (ARGB) Lighting:** Integrated high-brightness LED atomizing fan blades provide soft, customizable ARGB lighting effects. Supports synchronization with compatible motherboard ARGB headers (3-pin +5V ARGB).
- **Durable Construction:** Fan blades and frame are constructed from industrial-grade PBT and PC polymers for strength and stability.
- **Vibration Damping:** Each corner of the fan features pre-installed soft silicone rubber pads to minimize noise and vibration.

3. PACKAGE CONTENTS

The package includes the following items:

- Thermalright TL-C14C-S 140mm ARGB PWM Case Fan (1 unit)

- Mounting Screws (quantity may vary)

4. INSTALLATION GUIDE

Follow these steps to properly install your Thermalright TL-C14C-S case fan. Ensure your computer is powered off and unplugged before beginning installation.

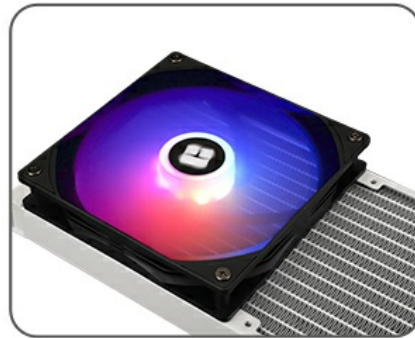
4.1 Physical Installation

1. Identify the desired mounting location within your PC case (e.g., front, rear, top, bottom, or on a CPU cooler/radiator).
2. Align the fan with the screw holes on your case or radiator. The fan can be mounted to push or pull air, depending on your system's airflow requirements.
3. Secure the fan using the provided mounting screws. Do not overtighten. The integrated silicone pads will help absorb vibrations.

VERSATILE COOLING SCENARIOS



Case Airflow



Water Cooling Radiators

Image: The Thermalright TL-C14C-S fan can be used for case airflow or mounted on water cooling radiators.

4.2 Electrical Connections

1. **PWM Connection:** Connect the fan's 4-pin PWM cable to an available 4-pin fan header on your motherboard. This allows the motherboard to control the fan speed based on system temperature.
2. **ARGB Connection:** Connect the fan's 3-pin +5V ARGB cable to an available 3-pin +5V ARGB header on your motherboard. Ensure the connector is aligned correctly to avoid damage. **Do not connect to a 4-pin +12V RGB header, as this will damage the fan's LEDs.**
3. If you are connecting multiple ARGB fans, you may need an ARGB splitter or controller (not included) to synchronize lighting effects.

エンジニアリングの観点からのパフォーマンス重視

エアフロー7ブレードデザイン、定格75.8CFM/1500RPM



PWMファン速度制御をサポート

Image: The fan features a PWM connector for speed control.

Your browser does not support the video tag.

Video: This video demonstrates the connection process for ARGB lighting and fan power to a motherboard. It shows how to connect ARGB headers and align pins for proper synchronization.

5. OPERATING INSTRUCTIONS

Once installed and connected, the Thermalright TL-C14C-S fan operates automatically based on your motherboard's settings.

- **Fan Speed Control (PWM):** The 4-pin PWM connection allows your motherboard's BIOS/UEFI or dedicated software to dynamically adjust the fan speed. You can configure fan curves to balance cooling performance and noise levels according to your preferences.
- **ARGB Lighting Control:** The ARGB lighting can be controlled and synchronized using your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync). Refer to your motherboard's manual for specific instructions on ARGB software usage. The fan supports up to 17 modes of

light effects.



Image: The TL-C14C-S fan displays vibrant ARGB lighting effects.

6. MAINTENANCE

The Thermalright TL-C14C-S fan is designed for long-term, maintenance-free operation thanks to its S-FDB bearing.

- **Cleaning:** Periodically clean the fan blades and frame to remove dust buildup, which can impede airflow and reduce cooling efficiency. Use compressed air or a soft brush. Ensure the fan is powered off before cleaning.
- **Bearing:** The S-FDB bearing is designed to be maintenance-free. **Do not attempt to disassemble the fan or lubricate the bearing, as this may void your warranty and damage the product.**

LONG LASTING S-FDB BEARING

Fan Motor equipped with high durability S-FDB (Fluid Dynamic Bearing) bearing, proving low-friction and low-noise operation. For a long service life span in your PC build. Thermalright fan with S-FDB bearing is maintenance-free, please do not disassemble.

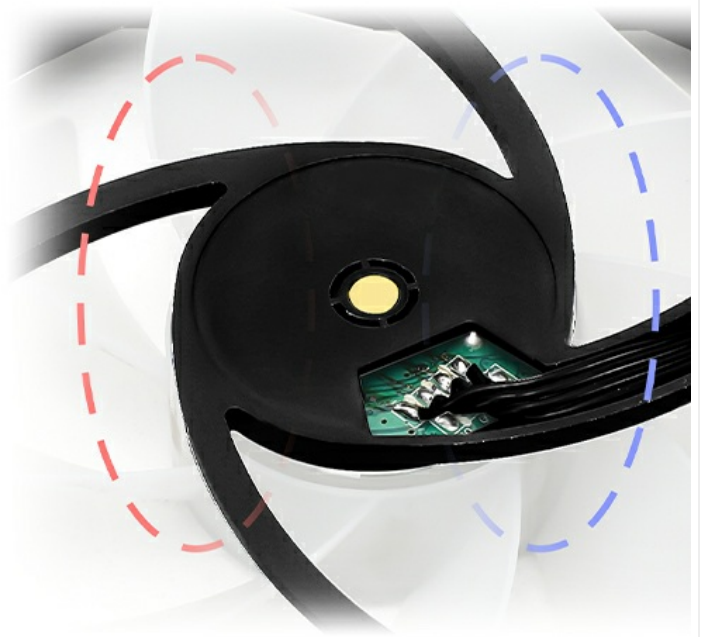


Image: Illustration of the long-lasting S-FDB (Fluid Dynamic Bearing) designed for low-friction and low-noise operation.

7. TROUBLESHOOTING

If you encounter issues with your fan, refer to the following common troubleshooting steps:

- **Fan Not Spinning:**

- Ensure the 4-pin PWM connector is securely plugged into the motherboard fan header.
- Check your motherboard's BIOS/UEFI settings to ensure the fan header is enabled and configured correctly.
- Verify that your power supply is functioning correctly and providing power to the motherboard.

- **ARGB Lights Not Working:**

- Confirm the 3-pin +5V ARGB connector is securely plugged into the correct motherboard ARGB header.
- **Double-check that it is a +5V ARGB header and NOT a +12V RGB header.** Connecting to a +12V header will damage the LEDs.
- Ensure your motherboard's ARGB software is installed and configured to control the lighting effects.
- If using an ARGB controller, ensure it is powered and functioning correctly.

- **Excessive Noise:**

- Check for any cables or obstructions touching the fan blades.
- Ensure the fan is securely mounted and the mounting screws are not loose.
- Clean any dust buildup on the fan blades.
- Adjust fan speed settings in your motherboard's BIOS/UEFI or software to a lower RPM if noise is a concern.

8. SPECIFICATIONS

Feature	Specification
Model	TL-C14C-S
Dimensions	140mm x 140mm x 25mm (L x W x H)
Fan Speed	1500 RPM (Max)
Noise Level	26.4 dBA (Max)
Air Flow	75.8 CFM (Max)
Static Pressure	1.93 mm H2O (Max)
Bearing Type	S-FDB (Fluid Dynamic Bearing)
Connector	4-Pin PWM (Fan Power), 3-Pin +5V ARGB (Lighting)
Operating Voltage	12V (Fan), 5V (ARGB)
Current	0.13A
Wattage	1.56 Watts
Material	PBT & PC Polymer (Fan Blades & Frame), Silicone (Anti-vibration pads)

9. WARRANTY AND SUPPORT

Thermalright products are manufactured with high-quality standards. For warranty information or technical support, please refer to the official Thermalright website or contact your local distributor. Keep your proof of purchase for warranty claims. For further assistance, you may visit the Thermalright store on Amazon:[Thermalright Store](#).

