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Thermaltake AC-023-AN1NAN-A1

Thermaltake Commander FP SATA Powered 10 Port 4-Pin PWM Fan Hub

Model: AC-023-AN1NAN-A1

Brand: Thermaltake

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1. PRODUCT OVERVIEW

The Thermaltake Commander FP is a versatile fan hub designed to expand the cooling capabilities of your PC. It allows you to connect up to 10 independent 4-pin PWM fans, enabling comprehensive airflow management within your computer chassis. The hub is powered directly via a SATA connection from your power supply, ensuring stable power delivery for all connected fans. Its compact design and integrated blue LED power indicator make it a practical and aesthetically pleasing solution for enthusiasts and users seeking efficient cable management and enhanced cooling performance.



Figure 1: Front view of the Thermaltake Commander FP Fan Hub, showcasing its compact design and illuminated blue LED power indicator.

2. WHAT'S IN THE BOX

Upon opening the package, you will find the following components:

- Thermaltake Commander FP Fan Hub
- PWM signal cable (for connecting to motherboard)
- 5 reusable beaded cable ties
- 2 velcro tabs (for mounting)



Figure 2: The fan hub displaying its ten 4-pin PWM fan ports, ready for fan connections.

3. TECHNICAL SPECIFICATIONS

Brand	Thermaltake
Model Number	AC-023-AN1NAN-A1
Dimensions (LxWxH)	3.2 x 1.7 x 0.7 inches
Item Weight	0.01 ounces
Fan Support	Up to 10 (4-pin) PWM Fans
Power Input	Direct SATA Power Input
Indicator	Blue LED Power Indicator
Country of Origin	China

4. SETUP AND INSTALLATION

Follow these steps to properly install your Thermaltake Commander FP Fan Hub:

1. **Prepare your PC:** Ensure your computer is powered off and unplugged from the wall outlet. Open your PC case to access the internal components.
2. **Mount the Fan Hub:** Use the provided velcro tabs to securely mount the Commander FP Fan Hub in a suitable location within your PC case. Common locations include behind the motherboard tray for optimal cable management, or any flat surface where it won't obstruct airflow.



Figure 3: The fan hub neatly installed behind the motherboard tray, demonstrating effective cable management.

3. **Connect SATA Power:** Connect a SATA power cable from your power supply unit (PSU) directly to the SATA power input port on the Commander FP Fan Hub. This provides the necessary power for all connected fans.



Figure 4: Close-up view of the fan hub's SATA power input, highlighting the direct power connection from the PSU.

4. **Connect Fans:** Plug your 4-pin PWM fans into any of the 10 available fan ports on the hub. Ensure the fan connectors are oriented correctly.



Figure 5: The fan hub with multiple 4-pin PWM fans connected, illustrating its capacity to manage numerous cooling devices.

5. **Connect to Motherboard:** Connect the included PWM signal cable from the Commander FP Fan Hub to an available 4-pin PWM fan header on your motherboard (e.g., CPU_FAN, SYS_FAN). This connection allows your motherboard to control the fan speeds of all fans connected to the hub.

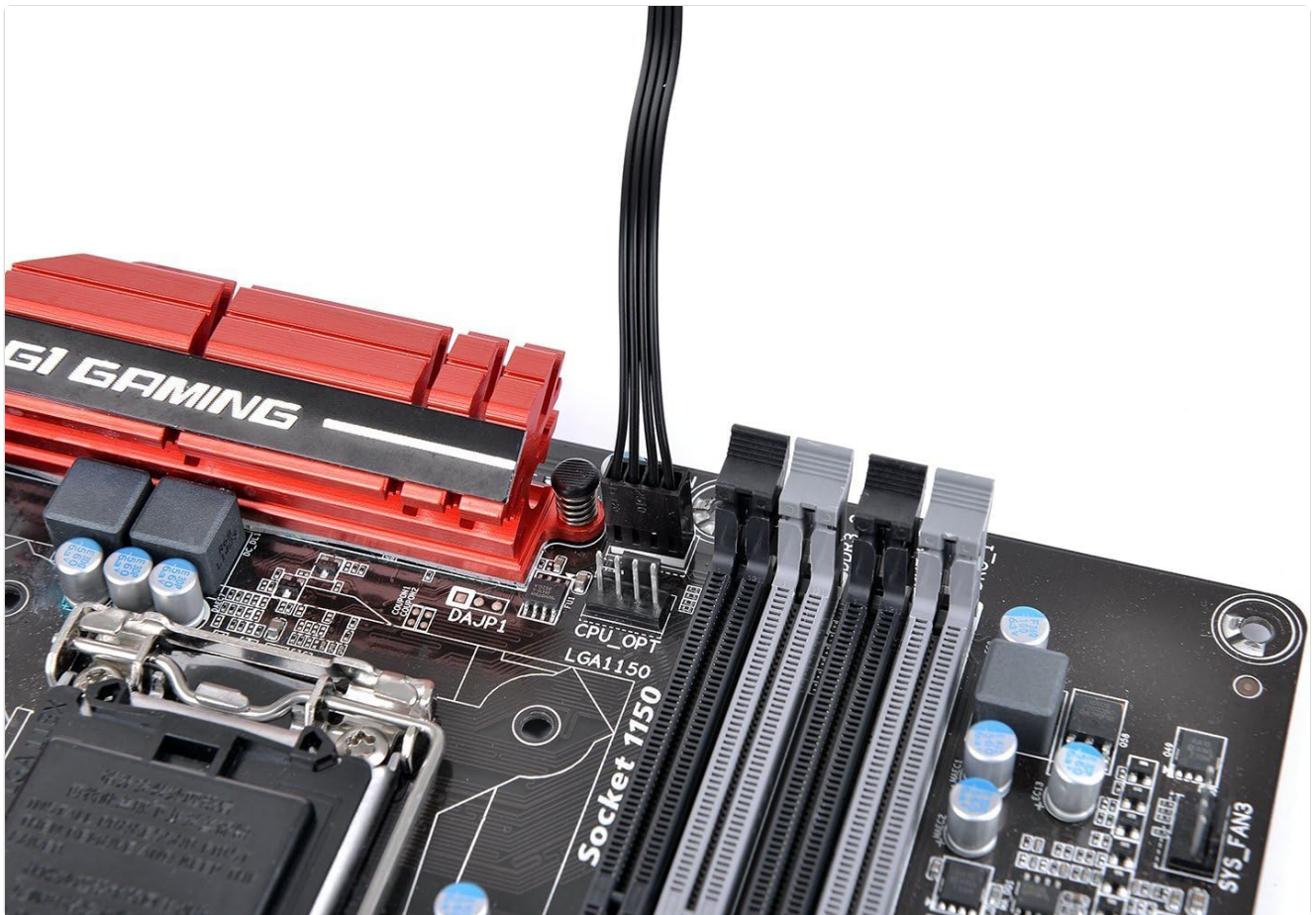


Figure 6: The PWM signal cable connected to a motherboard fan header, enabling centralized fan speed control.

6. **Cable Management:** Use the provided reusable beaded cable ties to organize and secure the fan cables, improving airflow and aesthetics within your PC case.

5. OPERATION

Once installed, the Thermaltake Commander FP Fan Hub operates seamlessly with your motherboard's fan control capabilities.

- **Automatic Fan Control:** The fan hub relays the PWM signal from the connected motherboard header to all 10 fans. This means all fans connected to the hub will operate at the same speed, synchronized with the temperature readings of the motherboard's designated fan header (e.g., CPU temperature if connected to CPU_FAN).
- **Blue LED Indicator:** The blue LED on the fan hub illuminates when the device is receiving power, confirming proper connection and functionality.
- **BIOS/Software Control:** You can adjust the fan curve and speed settings for the motherboard header connected to the fan hub through your motherboard's BIOS/UEFI settings or compatible fan control software provided by your motherboard manufacturer. Changes made to this single header will affect all fans connected to the Commander FP.

6. MAINTENANCE

To ensure optimal performance and longevity of your Thermaltake Commander FP Fan Hub and connected fans, consider the following maintenance tips:

- **Dust Removal:** Periodically inspect the fan hub and connected fans for dust accumulation. Use compressed air or a soft brush to gently remove dust, which can impede airflow and affect performance.
- **Cable Inspection:** Regularly check all cable connections to ensure they are secure and free from damage. Loose connections can lead to intermittent fan operation.
- **Environmental Conditions:** Ensure your PC operates in a clean, well-ventilated environment to minimize dust intake and maintain stable temperatures.

7. TROUBLESHOOTING

If you encounter issues with your Thermaltake Commander FP Fan Hub, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fans not spinning	No power to hub; Loose fan connections; Faulty fan.	Ensure SATA power cable is securely connected to both PSU and hub. Verify all fan cables are firmly plugged into the hub. Test individual fans by connecting them directly to a motherboard fan header.
Blue LED not lit	No power to hub; Faulty hub.	Check SATA power connection from PSU. Try a different SATA power cable from your PSU. If still unlit, the hub may be faulty.
Fans spinning at full speed constantly	PWM signal not received; BIOS settings.	Ensure the PWM signal cable is correctly connected from the hub to a 4-pin PWM header on the motherboard. Check your motherboard's BIOS/UEFI settings to ensure the connected fan header is set to PWM mode and has a proper fan curve configured.
Some fans not spinning	Loose connection; Faulty fan port; Faulty fan.	Reseat the fan cable in the hub port. Try connecting the fan to a different port on the hub. Test the fan directly on a motherboard header to confirm it's functional.

8. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Thermaltake website or contact their customer service directly.

- **Official User Guide:** A comprehensive User Guide in PDF format is available for download: [User Guide \(PDF\)](#)
- **Manufacturer Website:** Visit the [Thermaltake Store](#) for product registration, FAQs, and further support resources.