

Shaking Tank MFX-ZHHN-1NNN6-R1

Shaking Tank 1to6 ARGB and PWM Fan Hub Instruction Manual

Model: MFX-ZHHN-1NNN6-R1

1. INTRODUCTION

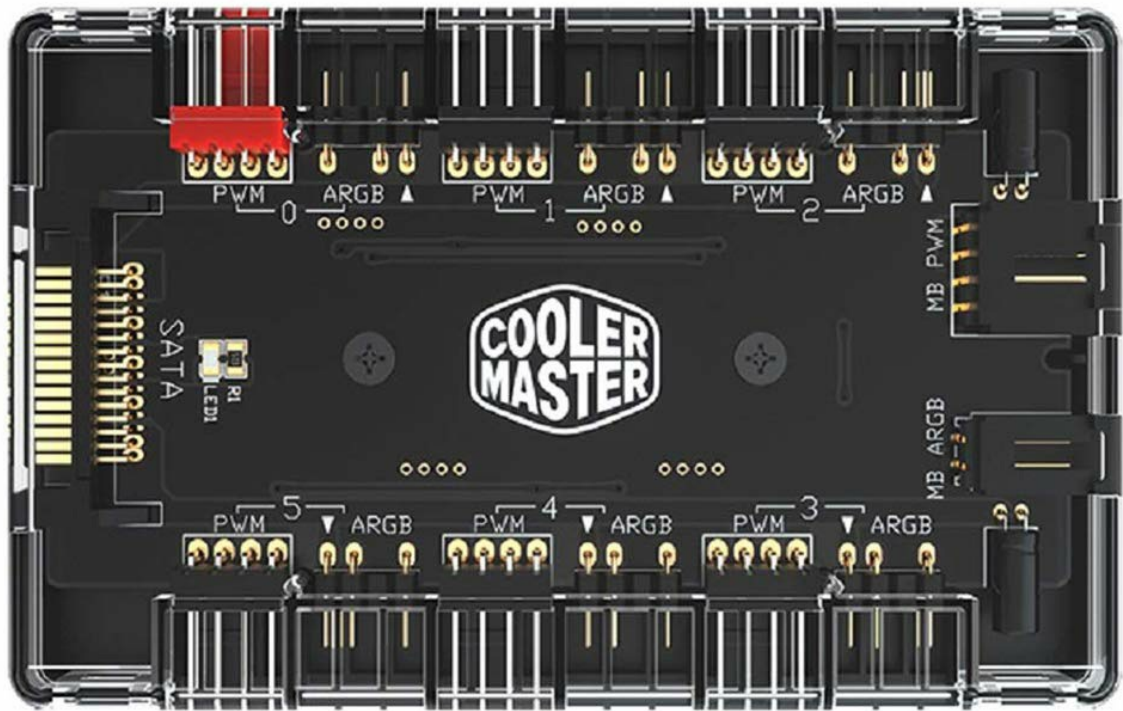
Thank you for choosing the Shaking Tank 1to6 ARGB and PWM Fan Hub. This device is designed to expand the connectivity for your computer's cooling fans and addressable RGB lighting components, providing centralized control and power distribution. This manual provides essential information for the proper installation, operation, and maintenance of your fan hub.

2. PRODUCT OVERVIEW

The Shaking Tank 1to6 ARGB and PWM Fan Hub allows you to connect up to six PWM-controlled fans and six 5V/3-pin Addressable RGB (ARGB) devices. It features a magnetic backplane for easy installation and is powered via a SATA connector from your power supply unit (PSU).

Key Features:

- **Multi-Connection:** Supports up to 6 PWM fans and 6 ARGB (5V/3-pin) devices.
- **Magnetic Backplane:** Built-in magnets for secure attachment to metallic surfaces inside your PC case.
- **SATA Power:** Ensures stable power delivery to all connected components.
- **Space Saving Design:** Compact form factor for efficient cable management and a tidy internal case.
- **Motherboard Synchronization:** Dedicated headers for connecting to your motherboard's PWM and ARGB headers for software control.



The Shaking Tank 1to6 ARGB and PWM Fan Hub provides six sets of PWM and ARGB headers for connecting multiple cooling and lighting devices.



Multi Connection

Up to 6 sets of Addressable RGB (3-pin) headers and PWM headers to meet your needs of connecting more devices.

This diagram highlights the individual PWM (4-pin) and ARGB (3-pin) ports, numbered 0 through 5, along with the SATA power input and motherboard synchronization headers.

3. SAFETY INFORMATION

- Always disconnect power from your computer before installing or removing any components.
- Ensure correct polarity and pin alignment when connecting cables. Incorrect connections, especially for ARGB, can cause damage to the hub or connected devices.
- This hub is designed for 5V/3-pin ARGB devices only. Do not connect 12V/4-pin RGB devices.
- Handle the hub and cables with care to avoid bending pins or damaging connectors.
- Keep the device away from moisture and extreme temperatures.

4. SETUP INSTRUCTIONS

4.1 Physical Installation

1. Identify a suitable metallic surface inside your PC case for mounting the hub. Common locations include the back of the motherboard tray or an empty drive bay.
2. Utilize the built-in magnets on the back of the hub to securely attach it to the chosen surface. No tools or adhesive are typically required.

SPACE SAVING

It will save your space effectively and make the cable management easier, and make the inside case neat and tidy.



SATA POWER

Even with full loaded, it still can maintain stable output.

The hub features a built-in magnet for easy and secure installation onto any metallic surface within your computer case, simplifying cable management.

4.2 Cable Connections

Carefully follow these steps to connect your components to the fan hub:

1. **SATA Power Connection:** Connect the SATA power cable from your PSU to the SATA power input on the fan hub. This is crucial for the hub's operation and to power all connected fans and ARGB devices.

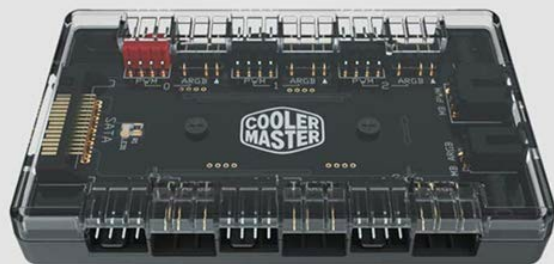


BUILT-IN MAGNET

This compact HUB easily fits inside your case. It can attach to any metallic surface with built-in magnets.

MULTI CONNECTION

Up to 6 sets of Addressable RGB (3-pin) headers and PWM headers to meet your needs of connecting more devices.



The hub is powered via a SATA connector, ensuring stable power delivery to all connected fans and ARGB devices, even under full load.

- PWM Fan Connections:** Connect your 4-pin PWM fans to the 'PWM' headers on the hub. The hub supports up to six PWM fans.
- ARGB Lighting Connections:** Connect your 5V/3-pin Addressable RGB devices (e.g., ARGB fans, LED strips) to the 'ARGB' headers on the hub. The hub supports up to six ARGB devices.
- Motherboard Synchronization (Optional):**
 - To control fan speed via your motherboard, connect the 'MB PWM' cable from the hub to an available 4-pin PWM fan header on your motherboard.
 - To control ARGB lighting via your motherboard's software, connect the 'MB ARGB' cable from the hub to an available 5V/3-pin ARGB header on your motherboard.

Important Note: When connecting to the product interface, ensure that all connections meet the required specifications. Incorrect connections can lead to device damage. For fan interfaces of other brands, you may need to remove the shell of this product or remove part of the extra rubber in the interface before inserting it into the product's interface to ensure a proper fit.

5. OPERATING INSTRUCTIONS

The Shaking Tank 1to6 ARGB and PWM Fan Hub acts as a splitter and power distributor. Its operation depends on how it is connected:

- **Motherboard Control:** If the 'MB PWM' and 'MB ARGB' headers are connected to your motherboard, fan speed and ARGB lighting effects will be controlled through your motherboard's proprietary software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion, ASRock Polychrome Sync). Refer to your motherboard's manual for specific software instructions.
- **No Motherboard Control:** If the 'MB PWM' and 'MB ARGB' headers are not connected, the hub will provide power to the fans and ARGB devices. Fan speed will typically run at a default speed (often full speed), and ARGB devices may display a default lighting pattern or remain off, depending on the device. This hub does not include an integrated controller for standalone operation without motherboard input.

6. MAINTENANCE

- **Cleaning:** Periodically clean the hub and connected cables to prevent dust buildup, which can affect performance and longevity. Use a soft, dry cloth or compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Cable Management:** Ensure cables are neatly routed and not obstructing airflow or putting strain on connectors.
- **Inspection:** Occasionally inspect connections to ensure they remain secure and free from damage.

7. TROUBLESHOOTING

7.1 Fans Not Spinning or ARGB Not Lighting Up

- **Check SATA Power:** Ensure the SATA power cable from your PSU is securely connected to the hub.
- **Verify Connections:** Double-check that all fan and ARGB cables are correctly and firmly plugged into the hub.
- **Motherboard Connection:** If using motherboard control, ensure the 'MB PWM' and 'MB ARGB' cables are correctly connected to the motherboard headers.
- **Software Issues:** If using motherboard control, check your motherboard's software for fan speed and ARGB settings. Ensure the lighting is enabled and configured correctly.
- **Compatibility:** Confirm that your ARGB devices are 5V/3-pin compatible. This hub does not support 12V/4-pin RGB.
- **Pin Alignment:** Refer to the special note in Section 4.2 regarding potential issues with other brands' fan interfaces and pin alignment.

7.2 Incorrect ARGB Colors or Patterns

- **Motherboard Software:** If connected to the motherboard, ensure the correct lighting mode and colors are selected in your motherboard's ARGB software.
- **Cable Orientation:** Verify that ARGB cables are connected in the correct orientation.

7.3 Fans Not Controllable

- **MB PWM Connection:** Ensure the 'MB PWM' cable is connected from the hub to a 4-pin PWM header on your motherboard.
- **Motherboard BIOS/Software:** Check your motherboard's BIOS settings or fan control software to ensure the connected fan header is set to PWM mode and configured for control.
- **Fan Type:** Confirm that your fans are indeed 4-pin PWM fans. 3-pin fans connected to PWM headers will typically run at full speed.

8. SPECIFICATIONS

Model Number	MFX-ZHHN-1NNN6-R1
Product Dimensions	4.06"L x 2.56"W x 0.63"H (10.31 x 6.50 x 1.60 cm)
Item Weight	3.84 ounces (108.86 grams)
Power Connector Type	SATA (Input), 4Pinx6 (PWM Fan Output), 3pin ARGBx6 (ARGB Output)
Voltage	5 Volts (ARGB), 12 Volts (PWM Fans)
Wattage	2 watts (Hub power consumption, excluding connected devices)
Compatible Devices	Personal Computer (PC)
Material	Rubber (likely referring to magnetic pads or internal components)
UPC	791711819844



An exploded diagram illustrating the components of the fan hub, including the main circuit board, transparent top cover, and magnetic base.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer where the product was acquired. You may also visit the official Shaking Tank website for further assistance.