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Redragon GC218M, GCF012

Redragon GC218M M-ATX Gaming PC Case & GCF012 Fan Kit User Manual

Model: GC218M (PC Case), GCF012 (PC Fans)

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Redragon GC218M M-ATX Gaming Back-Mounted PC Case and the Redragon GCF012 Reverse 120mm PC Case Fans. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.



Image 1.1: Redragon GC218M M-ATX Gaming PC Case and GCF012 Reverse 120mm PC Case Fans. This image displays the complete product bundle, showcasing the PC case with its tempered glass panels and the three included 120mm ARGB fans.

2. Safety Information

- Always disconnect power from your PC before installing or removing any components.

- Handle tempered glass panels with care to prevent breakage.
- Avoid touching electronic components directly to prevent electrostatic discharge.
- Keep small parts and packaging materials away from children.
- Ensure proper ventilation around the PC case to prevent overheating.

3. Package Contents

3.1 Redragon GC218M PC Case

- Redragon GC218M M-ATX PC Case
- Accessory Box (screws, cable ties, standoffs)
- User Manual (this document)

3.2 Redragon GCF012 PC Fans

- 3 x Redragon GCF012 Reverse 120mm ARGB PC Case Fans
- Mounting Screws for Fans

4. Setup and Installation

4.1 PC Case Preparation (GC218M)

1. **Unpack the Case:** Carefully remove the PC case from its packaging.
2. **Remove Side Panels:** Locate and remove the tempered glass side panels. Refer to the case design for specific latch or screw mechanisms.
3. **Cable Management Space:** The GC218M features a back-mounted design with up to 26mm of space for cable management behind the motherboard tray. This facilitates a clean, organized build.



Image 4.1: Illustration of the back-mounted design, highlighting the 26mm cable management space behind the motherboard tray. This design helps in achieving a clean, zero-cable appearance from the front.

4. **Motherboard Installation:** Install your M-ATX or ITX motherboard onto the pre-installed standoffs. Secure it with the provided screws.
5. **Component Compatibility:** Ensure your components fit within the case's dimensions.
    - CPU Cooler Height: Up to 170mm
    - GPU Length: Up to 425mm
    - PSU Length: Up to 250mm



Image 4.2: Diagram illustrating the maximum dimensions for CPU cooler height, GPU length, and PSU length within the Redragon GC218M case. This helps users verify component compatibility.

6. **Power Supply Unit (PSU) Installation:** Install your PSU in its designated compartment. Route cables through the back for optimal management.
7. **Storage Drive Installation:** Install your SSDs/HDDs in the available drive bays.

4.2 PC Fan Installation (GCF012)

The Redragon GCF012 fans feature a daisy-chain connection system for simplified installation.

1. **Mounting Fans:** Identify desired fan mounting locations within the GC218M case (e.g., top, bottom, side). Use the provided screws to secure each GCF012 fan. Ensure correct airflow direction.
2. **Daisy-Chain Connection:** Connect the fans to each other using their modular snap-on connectors. This reduces cable clutter.



Image 4.3: Visual representation of the GCF012 fans' daisy-chain connection mechanism. This shows how multiple fans can be linked together for power and ARGB control, simplifying cable management.

3. **ARGB Connection:** Connect the final fan in the daisy-chain to your motherboard's 5V 3-pin ARGB header. If your motherboard lacks an ARGB header, an external controller (sold separately) may be required.



Image 4.4: Diagram illustrating the ARGB compatibility of the GCF012 fans, showing the 5V 3-pin connector and compatibility with major motherboard ARGB sync technologies like ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, and ASRock Polychrome RGB.

4. **Power Connection:** Connect the fan power cable to an available fan header on your motherboard or a fan controller.

5. Operating Instructions

5.1 Panoramic View and Accessibility

The GC218M case features a 270° panoramic design with tempered glass panels, offering an unobstructed view of your internal components. The tool-free design allows for easy access during builds and upgrades.



Image 5.1: The Redragon GC218M case showcasing its 270-degree panoramic view through tempered glass, along with key dimensions (17.08" height, 15.82" length, 8.58" width). This highlights the aesthetic and spacious design.

5.2 Airflow and Cooling

The case is designed for advanced airflow, promoting efficient cooling. The GCF012 fans contribute to this with their optimized speed, airflow, and pressure.



Image 5.2: Diagram illustrating the advanced airflow path within the Redragon GC218M case, showing cool air intake and warm air exhaust. It also highlights a removable dust-proof pad for maintenance.



Image 5.3: Specifications for the Redragon GCF012 ARGB fans, detailing their speed (800-2000 RPM), airflow (68.8 CFM), pressure (2.05 mm H_2O), and noise level (29.2 dBA). This provides performance metrics for the fans.

5.3 ARGB Lighting Control

Control the ARGB lighting of your GCF012 fans through your motherboard's compatible software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome RGB). This allows for synchronization and customization of lighting effects.

6. Maintenance

- **Dust Filters:** Regularly clean the removable dust filters to maintain optimal airflow and prevent dust buildup inside the case.
- **Case Cleaning:** Use a soft, damp cloth to clean the exterior of the case. Avoid abrasive cleaners. For tempered glass, use a glass cleaner.
- **Fan Cleaning:** Periodically use compressed air to remove dust from fan blades and heatsinks. Ensure fans are not

spinning during cleaning.

7. Troubleshooting

Problem	Possible Cause	Solution
Fans not spinning	Loose power connection, incorrect fan header, faulty fan.	Check all power connections. Ensure fans are connected to appropriate headers. Test individual fans if possible.
ARGB lighting not working	Incorrect ARGB header connection (e.g., 12V RGB instead of 5V ARGB), software issue, loose daisy-chain connection.	Verify connection to a 5V 3-pin ARGB header. Check motherboard software settings. Ensure all daisy-chain connections are secure.
Poor airflow/high temperatures	Dust buildup, incorrect fan orientation, insufficient fans.	Clean dust filters and fans. Verify fan direction for optimal intake/exhaust. Consider adding more fans if supported.
Case panel difficult to remove/install	Misalignment, obstruction.	Ensure no cables or components are obstructing the panel. Realign carefully.

8. Specifications

8.1 Redragon GC218M M-ATX PC Case

- **Form Factor:** M-ATX, ITX
- **Design:** Back-Mounted, 270° Panoramic Tempered Glass
- **Cable Management:** 26mm space
- **CPU Cooler Height Limit:** 170mm
- **GPU Length Limit:** 425mm
- **PSU Length Limit:** 250mm
- **Dust Filters:** Removable
- **Dimensions:** Approximately 17.08" (H) x 15.82" (L) x 8.58" (W)

8.2 Redragon GCF012 Reverse 120mm PC Case Fans

- **Fan Size:** 120mm
- **Type:** Reverse Airflow
- **Lighting:** ARGB (Addressable RGB)
- **ARGB Connector:** 5V 3-pin
- **Connection:** Daisy-Chain Modular Snap-on
- **Speed:** 800-2000 RPM
- **Airflow:** 68.8 CFM
- **Static Pressure:** 2.05 mm H_2O
- **Noise Level:** 29.2 dBA

9. Warranty and Support

Redragon products come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Redragon website. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Redragon customer service through their official channels.

Official Redragon Website: www.redragonusa.com

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