

GIGABYTE G5 MD-51US123SH

GIGABYTE G5 MD-51US123SH Gaming Laptop User Manual

Model: G5 MD-51US123SH

1. SETUP

This section guides you through the initial setup of your GIGABYTE G5 MD-51US123SH gaming laptop.

1.1 Unboxing and Initial Inspection

- Carefully remove the laptop and all accessories from the packaging.
- Verify that all components are present: laptop, power adapter, and documentation.
- Inspect the laptop for any physical damage. If damage is found, contact your retailer immediately.

1.2 Connecting the Power Adapter

1. Connect the AC adapter to the power jack on the rear of the laptop.
2. Plug the power cord into an electrical outlet.
3. The battery will begin charging automatically. It is recommended to fully charge the battery before first use.

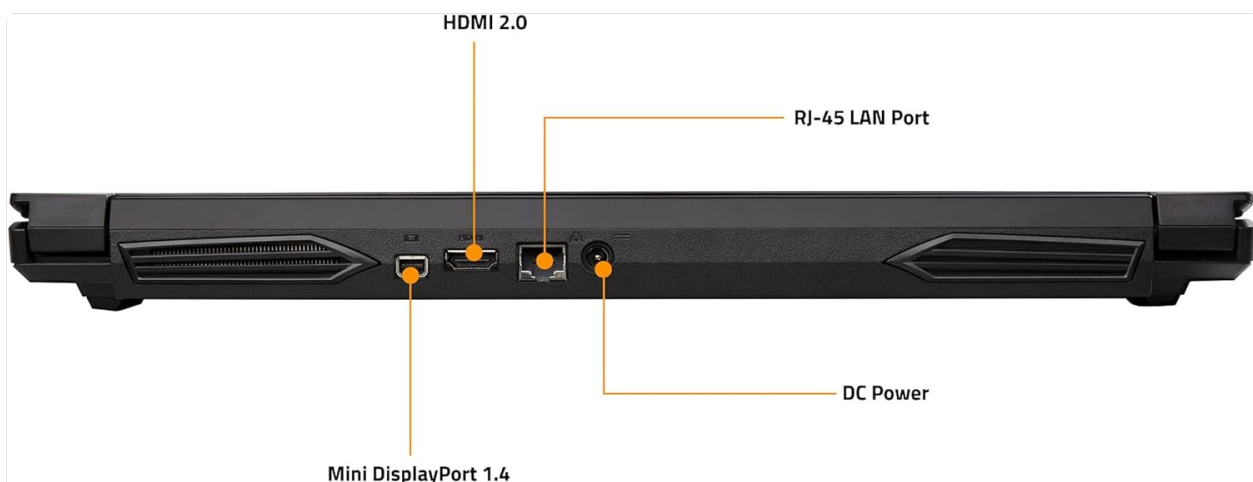


Figure 1.1: Rear Ports including DC Power Input

1.3 First Boot and Operating System Setup

1. Open the laptop lid.
2. Press the power button, typically located above the keyboard, to turn on the laptop.
3. Follow the on-screen instructions to complete the Windows 10 Home operating system setup. This includes selecting your region, language, accepting terms, and creating a user account.



Figure 1.2: Laptop Open with Keyboard and Screen

2. OPERATING INSTRUCTIONS

This section provides information on operating your GIGABYTE G5 MD-51US123SH laptop.

2.1 Power On/Off and Sleep Mode

- **Power On:** Press the power button.
- **Power Off:** Click the Windows Start button, then select Power > Shut down.
- **Sleep Mode:** Click the Windows Start button, then select Power > Sleep, or close the laptop lid.

2.2 Keyboard and Touchpad

- The laptop features a 15 Full Area Colored RGB Backlit Keyboard. Lighting can be customized via pre-installed software.
- Function keys (F1-F12) can be accessed by pressing the **Fn** key in combination with the desired function key. These keys control features such as screen brightness, volume, and wireless connectivity.
- The touchpad supports multi-touch gestures for navigation and control.

2.3 Display and Graphics

- The 15.6-inch FHD (1920x1080) IPS-level Anti-glare display features a 144Hz refresh rate for smooth

visuals.

- The laptop is equipped with an NVIDIA GeForce RTX 3050 Ti Laptop GPU with 4GB GDDR6 memory, providing dedicated graphics processing power.
- External displays can be connected via the HDMI 2.0 and Mini DisplayPort 1.4 ports located on the rear of the laptop.

2.4 Connectivity

The GIGABYTE G5 MD-51US123SH offers various ports for connecting peripherals:

- **Left Side:** USB 3.2 Gen1 (Type-A), USB 2.0 (Type-A), Microphone Jack, Headphone Jack.
- **Right Side:** SD Card Reader, USB 3.2 Gen2 (Type-C), USB 3.2 Gen2 (Type-A).
- **Rear:** Mini DisplayPort 1.4, HDMI 2.0, RJ-45 LAN Port, DC Power Input.



Figure 2.1: Side Ports Overview

3. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your laptop.

3.1 Cleaning

- **Screen:** Use a soft, lint-free cloth lightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Keyboard and Chassis:** Use a soft cloth. For dust in crevices, use compressed air. Avoid spraying liquids directly onto the laptop.

- **Vents:** Regularly check and clean the cooling vents to prevent dust buildup, which can impede airflow and cause overheating. Use compressed air to clear dust from the vents.

3.2 Battery Care

- Avoid fully discharging the battery frequently.
- If storing the laptop for an extended period, ensure the battery is charged to approximately 50-70%.
- Use only the original GIGABYTE power adapter provided with your laptop.

3.3 Software Updates

- Regularly update your Windows operating system to ensure security and performance.
- Check the GIGABYTE official website for the latest driver updates for your laptop model, especially for graphics drivers and system utilities.

4. TROUBLESHOOTING

This section addresses common issues you might encounter with your GIGABYTE G5 MD-51US123SH laptop.

- **Laptop does not power on:**

Ensure the power adapter is securely connected to both the laptop and a working electrical outlet. Verify the power outlet is functional. If the battery is completely drained, allow it to charge for a few minutes before attempting to power on.

- **Display issues (no image, flickering):**

Check if the laptop is powered on. Try adjusting the screen brightness using the function keys. If an external monitor is connected, try disconnecting it. If the issue persists, connect an external monitor to determine if the laptop's display or graphics card is at fault.

- **Overheating or loud fan noise:**

Ensure that the cooling vents are not obstructed. Operating the laptop on soft surfaces (like a bed or lap) can block airflow. Consider using a laptop cooling pad. If fan noise is unusually loud or persistent without heavy load, ensure all system drivers are updated. Persistent issues may indicate a hardware problem requiring professional service.

- **Poor performance:**

Check for background applications consuming excessive resources. Ensure your operating system and drivers are up to date. Run a virus scan. Consider increasing RAM or upgrading storage if performance issues are consistent across various tasks.

- **Keyboard or touchpad not responding:**

Restart the laptop. Check for any physical obstructions. Ensure touchpad is not disabled via a function key (e.g., Fn + F10). Update relevant drivers from the GIGABYTE support website.

If you are unable to resolve an issue using these steps, please refer to the Support section for further assistance.

5. SPECIFICATIONS

Key technical specifications for the GIGABYTE G5 MD-51US123SH gaming laptop.

Feature	Specification
---------	---------------

Feature	Specification
Model Name	G5 MD-51US123SH
Processor	11th Gen Intel Core i5-11400H (2.7GHz~4.5GHz)
Graphics	NVIDIA GeForce RTX 3050 Ti Laptop GPU 4GB GDDR6
Display	15.6" Thin Bezel FHD (1920x1080) IPS-level Anti-glare LCD (144Hz)
RAM	16GB DDR4 (Expandable to 64GB Max)
Storage	512GB Gen4 SSD
Operating System	Windows 10 Home
Wireless Connectivity	802.11ax
Ports	USB 3.2 Gen1 (Type-A), USB 2.0 (Type-A), USB 3.2 Gen2 (Type-C), USB 3.2 Gen2 (Type-A), HDMI 2.0, Mini DisplayPort 1.4, RJ-45 LAN, Microphone Jack, Headphone Jack, SD Card Reader
Battery	49W Battery, 1 Lithium Polymer battery (included)
Dimensions (WxDxH)	14.21 x 10.15 x 1.09 inches
Weight	4.85 pounds

6. WARRANTY INFORMATION

Your GIGABYTE G5 MD-51US123SH laptop comes with a limited warranty. The specific terms and duration of the warranty may vary by region and retailer. Please refer to the warranty card included with your product or visit the official GIGABYTE website for detailed warranty information and registration procedures.

Keeping your proof of purchase is essential for any warranty claims.

7. SUPPORT

For technical assistance, driver downloads, or further product information, please utilize the following resources:

- **GIGABYTE Official Website:** Visit www.gigabyte.com for product support pages, FAQs, and driver downloads.
- **Online Support:** Many common issues can be resolved by consulting the support sections or knowledge bases available on the GIGABYTE website.
- **Contact Customer Service:** If you require direct assistance, contact GIGABYTE customer service through the channels provided on their official support page for your region.

