**Saved from manuals.plus.**
**Open the live page for links to other documents and user manuals.**



**MSI B85-G43 GAMING**

# MSI B85-G43 GAMING Motherboard User Manual

Model: B85-G43 GAMING

## 1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI B85-G43 GAMING motherboard. Designed for optimal performance with Intel processors, this motherboard offers a robust platform for gaming and high-performance computing. Please read this manual thoroughly before proceeding with installation to ensure proper setup and functionality.

## 2. Key Features

- **Processor Support:** LGA 1150 socket for 4th-generation Intel Core i7/i5/i3/Pentium/Celeron processors.
- **Chipset:** Intel B85 Express Chipset.
- **Memory:** Supports DDR3 memory modules at speeds of 1600/1333/1066 MHz.
- **Storage:** Multiple SATA 6Gb/s ports for high-speed storage devices.
- **USB Connectivity:** Features USB 3.0 ports for fast data transfer.
- **Video Output:** Integrated HDMI port for display connectivity.
- **Form Factor:** ATX.




Figure 1: MSI B85-G43 GAMING Motherboard and its retail packaging.

## 3. Setup and Installation

Before beginning installation, ensure your system is powered off and unplugged from the wall outlet. Handle the motherboard by its edges to avoid static discharge.

### 3.1 Component Overview

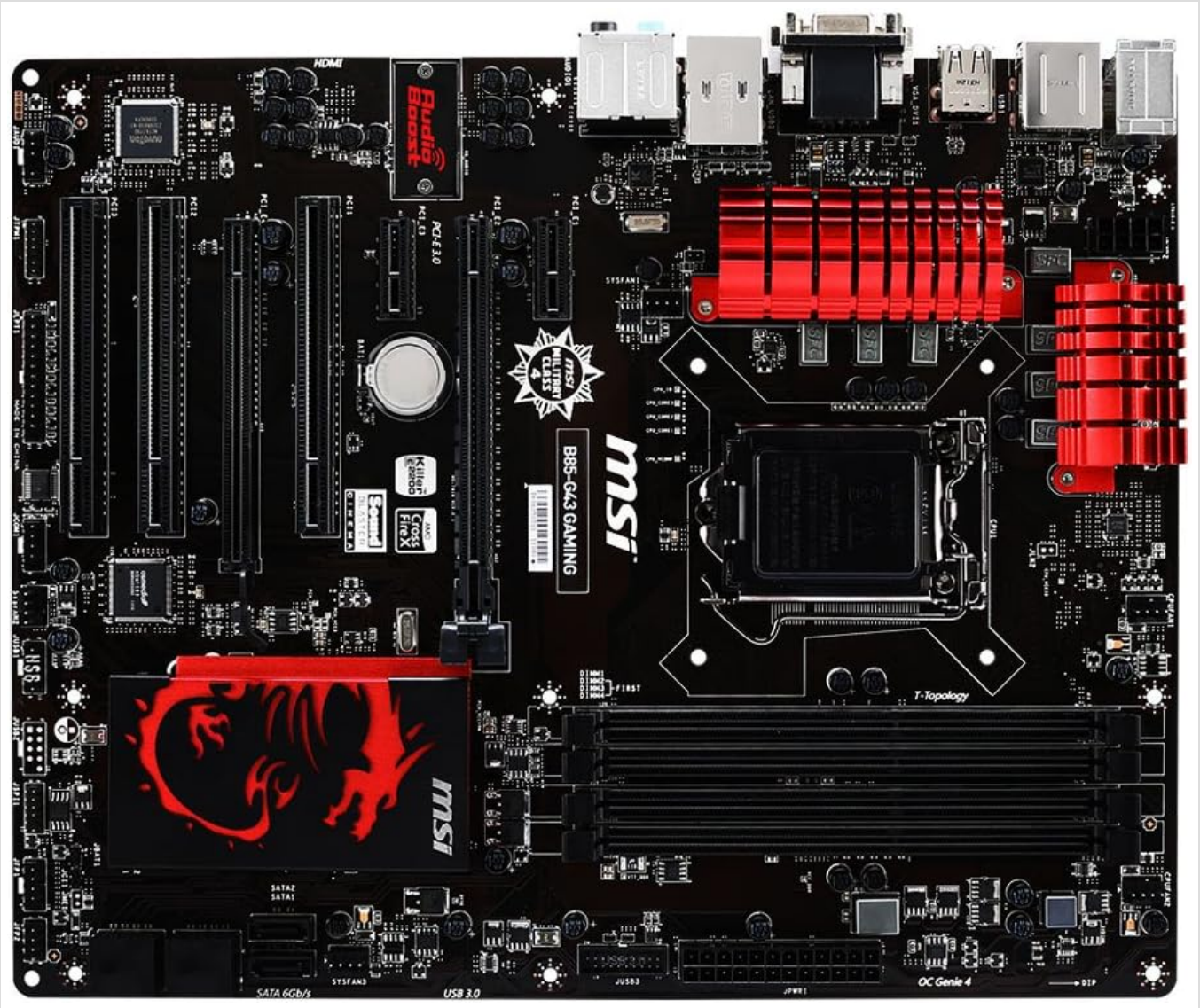


Figure 2: Top-down view of the MSI B85-G43 GAMING Motherboard, highlighting key component locations such as the CPU socket, RAM slots, PCIe slots, and SATA ports.

### 3.2 Installation Steps

1. **Prepare the Case:** Install the I/O shield into the rear opening of your computer case.
2. **Install Motherboard:** Carefully align the motherboard with the standoffs in your case and secure it with screws.
3. **Install CPU:** Open the CPU socket lever, align the CPU with the triangle marker, gently place it into the socket, and close the lever.
4. **Install CPU Cooler:** Mount the CPU cooler according to its manufacturer's instructions.
5. **Install RAM:** Open the clips on the DDR3 memory slots, align the RAM modules, and press down firmly until the clips snap into place.
6. **Install Graphics Card (Optional):** Insert your graphics card into the primary PCIe x16 slot and secure it.
7. **Connect Power:** Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your power supply to the motherboard.
8. **Connect Storage Devices:** Connect your SATA drives (HDD/SSD) to the SATA 6Gb/s ports on the motherboard.
9. **Connect Front Panel Cables:** Connect the power button, reset button, USB ports, and audio jacks from your case to the corresponding headers on the motherboard. Refer to the motherboard's silkscreen labels for correct pin assignments.

## 4. Operating the Motherboard (BIOS & Drivers)

After physical installation, the next step is to configure the system software.

### 4.1 BIOS Setup

To enter the BIOS (Basic Input/Output System) setup utility, power on your computer and repeatedly press the **DEL** key during the initial boot sequence. The BIOS allows you to configure system settings such as boot order, date/time, and hardware parameters.

### 4.2 Driver Installation

After installing your operating system, it is crucial to install the latest drivers for your motherboard's components. These drivers are typically provided on a utility DVD included with the motherboard or can be downloaded from the official MSI website. Key drivers include:

- Chipset Drivers
- LAN Drivers
- Audio Drivers
- USB 3.0 Drivers

## 5. Maintenance

Proper maintenance can extend the lifespan and ensure stable operation of your motherboard.

- **Dust Removal:** Regularly clean dust from inside your computer case, especially from fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged.
- **BIOS Updates:** Periodically check the MSI website for BIOS updates. BIOS updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid system damage.
- **Driver Updates:** Keep your drivers updated to the latest versions for optimal performance and security.
- **Cable Management:** Ensure cables inside the case are neatly organized to improve airflow and prevent overheating.

## 6. Troubleshooting

This section provides solutions to common issues you might encounter.

### 6.1 No Power / No Boot

- Check if the power supply is properly connected to the motherboard (24-pin ATX and 8-pin CPU power).
- Ensure the power supply switch is in the 'ON' position.
- Verify that the front panel power button cable is correctly connected to the motherboard header.
- Test the power supply with another system or a power supply tester.

### 6.2 No Display

- Ensure the monitor is connected to the correct video output (either integrated graphics or discrete graphics card).
- Reseat the graphics card and RAM modules.
- Try booting with only one RAM stick installed.
- Clear the CMOS (Complementary Metal-Oxide-Semiconductor) by removing the CMOS battery for 5-10 seconds or using the clear CMOS jumper (refer to motherboard diagram).

### 6.3 System Instability / Crashes

- Check CPU and GPU temperatures to ensure they are within safe operating limits.
- Run memory diagnostic tools to check for faulty RAM.
- Ensure all drivers are up to date.
- Verify that the power supply provides sufficient wattage for all components.

## 7. Specifications

| Feature | Specification |
|---|---|
| Brand | MSI |
| Model Name | B85-G43 GAMING |
| CPU Socket | LGA 1150 |
| Chipset Type | Intel B85 |
| Compatible Processors | Intel Celeron, Intel Pentium, 4th-gen Core i3/i5/i7 |
| RAM Memory Technology | DDR3 SDRAM |
| Memory Clock Speed | 1333 MHz (Supports up to 1600 MHz) |
| Product Dimensions (LxWxH) | 13.78 x 11.81 x 2.36 inches |
| Item Weight | 2.64 pounds |
| Number of USB 2.0 Ports | 6 |
| SATA Ports | Multiple SATA 6Gb/s |
| Video Output | HDMI |

## 8. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official MSI website. MSI provides technical support and resources for their products.
**MSI Official Website:** www.msi.com
On the MSI website, you can find:

- Latest drivers and BIOS updates
- Product FAQs and knowledge base
- Technical support contact information

© 2023 MSI. All rights reserved. Information in this manual is subject to change without notice.

### Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**

---

**Open the live page**

**https://manuals.plus/asin/B00EJ3RJGC**

More documents and user manuals: **https://manuals.plus/**