ASUS Rampage IV Extreme

ASUS RAMPAGE IV EXTREME Motherboard User Manual

Model: Rampage IV Extreme

Introduction

The ASUS Rampage IV Extreme is a high-performance motherboard designed for Intel LGA2011 2nd Generation Core i7 Processors, featuring the Intel X79 chipset. It supports an 8-DIMM memory configuration for maximum performance and versatility, and is fully ready for PCIe 3.0 with an integrated switching IC for NVIDIA SLI and future PCIe 3.0 peripherals. This manual provides essential information for the proper installation, operation, and maintenance of your motherboard.



Figure 1: Overview of the ASUS Rampage IV Extreme Motherboard.

Setup and Installation

Before beginning installation, ensure your system is powered off and disconnected from the power source. Handle the motherboard by its edges to avoid static discharge.

1. CPU Installation (LGA 2011 Socket)

1. Locate the LGA 2011 CPU socket on the motherboard.
2. Open the CPU socket retention mechanism by pushing down and outward on the lever.
3. Carefully align the CPU with the socket, ensuring the triangular mark on the CPU matches the mark on the socket. Do not force the CPU into place.
4. Gently lower the CPU into the socket.
5. Close the retention mechanism, ensuring the lever locks securely.

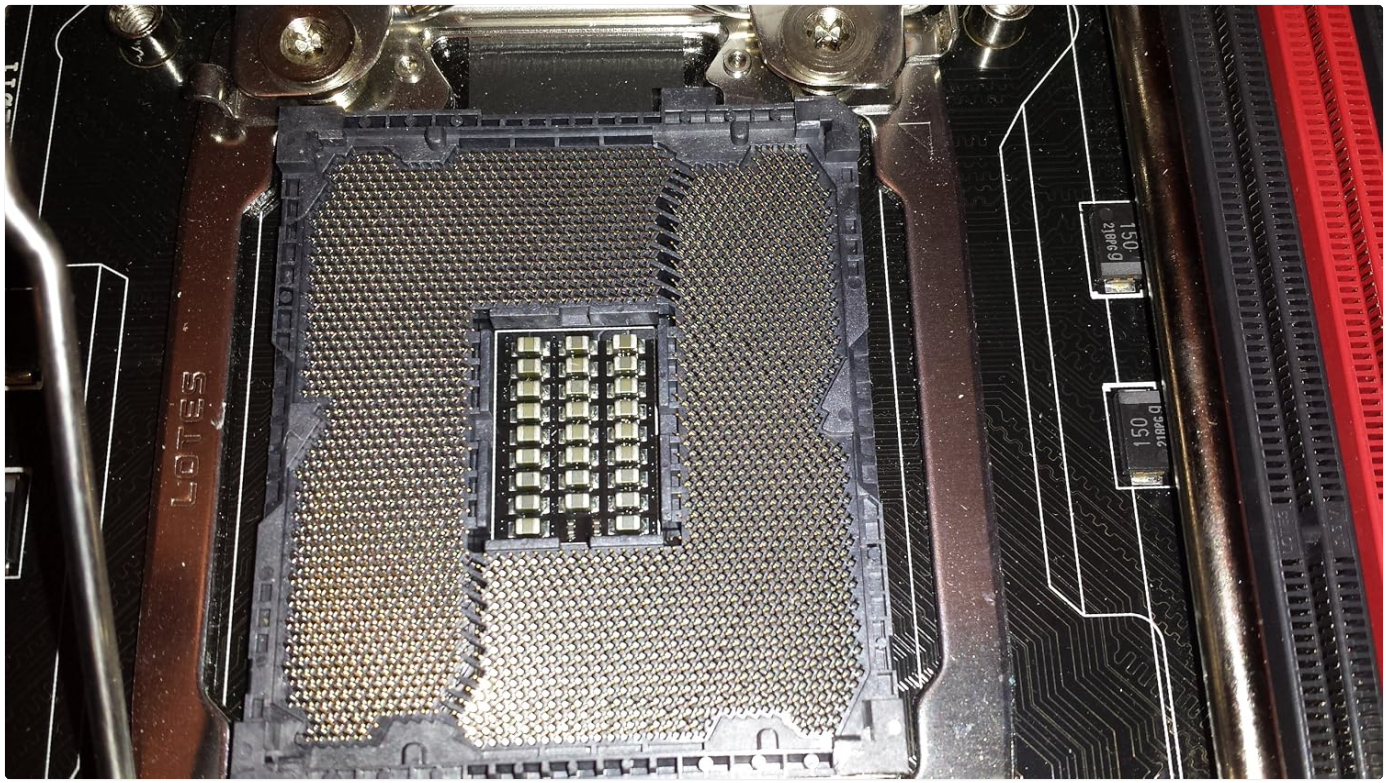


Figure 2: Detailed view of the LGA 2011 CPU socket, ready for processor installation.

2. Memory (RAM) Installation

- The motherboard features 8 DIMM slots supporting up to 64GB of DDR3 memory (2400(O.C.)/2133(O.C.)/1866/1600/1333/1066 MHz).
- Open the clips at both ends of the DIMM slot.
- Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.
- Press down firmly on both ends of the memory module until the clips snap into place.

3. PCIe Card Installation

- The motherboard supports 4 x PCIe 3.0/2.0 x16 slots, 1 x PCIe 3.0/2.0 x16 (x8 mode, gray), and 1 x PCIe 2.0 x1 slot.
- Select an available PCIe slot.
- Remove the corresponding expansion slot cover from your computer case.
- Align the PCIe card with the slot and press down firmly until it is seated correctly.
- Secure the card with a screw to the case.

4. Storage Device Connection

- Connect SATA data cables from your storage devices (HDDs, SSDs, optical drives) to the SATA 3Gb/s (4 ports) or

SATA 6Gb/s (4 ports) connectors on the motherboard.

- Ensure power cables are connected to your storage devices from the power supply.

5. Power Supply Connection

- Connect the 24-pin ATX main power connector and the 8-pin ATX 12V power connector from your power supply to the corresponding sockets on the motherboard.



Figure 3: The ASUS Rampage IV Extreme motherboard laid out with its included accessories, such as SATA cables and SLI bridges.



Figure 4: Included accessories for the ASUS Rampage IV Extreme, including cables, documentation, and utility discs.

Operating Instructions

BIOS/UEFI Configuration

The motherboard features an advanced UEFI BIOS interface. To access the BIOS, press the**DEL** key during system startup. The BIOS provides extensive options for system configuration, including:

- **Overclocking Settings:** Adjust CPU frequencies, voltages, and memory timings for enhanced performance.
- **Boot Options:** Configure boot order for storage devices.
- **Fan Control:** Manage fan speeds for optimal cooling and noise levels.
- **SATA Configuration:** Set SATA modes (AHCI, RAID).

Refer to the on-screen help within the UEFI BIOS for detailed explanations of each setting. For advanced overclocking, proceed with caution and consult reliable resources.

Software Utilities

ASUS provides a suite of software utilities designed to enhance your user experience. These may include tools for system monitoring, driver updates, and additional fan control. Install these utilities from the provided support DVD or download the latest versions from the ASUS support website.

MAINTENANCE

- **Dust Removal:** Regularly clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Periodically check the ASUS support website for the latest BIOS updates. BIOS updates can improve system stability, compatibility, and performance. Follow the instructions provided by ASUS carefully when updating the BIOS.
- **Driver Updates:** Keep all device drivers updated to ensure optimal performance and compatibility.

TROUBLESHOOTING

- **System Not Booting / No Display:**
  - Verify all power connections (24-pin ATX, 8-pin CPU) are secure.
  - Ensure RAM modules are correctly seated in their slots.
  - Check that the CPU is properly installed and the cooler is making good contact.
  - Test with a single RAM module in different slots.
  - If using a discrete graphics card, ensure it is fully seated and connected to power.
- **CPU Overheating:** The motherboard is designed to automatically shut down if the CPU temperature becomes critically high. Ensure the CPU cooler is properly installed and functioning, and thermal paste is correctly applied.
- **RAM Recognition Issues:** If RAM is not recognized or causes system instability (e.g., Blue Screen of Death), ensure the modules are compatible with the motherboard and installed correctly. Try testing modules individually.
- **BIOS Flashback:** The motherboard supports BIOS Flashback, allowing you to update the BIOS without a CPU or RAM installed. This can be useful for compatibility issues with newer CPUs. Refer to the ASUS website for detailed instructions on using BIOS Flashback via USB.
- **Software Utility Bugs:** Some users have reported occasional inaccuracies with ASUS software utilities (e.g., temperature readings). If you suspect a utility is providing incorrect information, cross-reference with BIOS readings or other monitoring software.

Specifications

Feature	Specification
Brand	ASUS
Model Name	Rampage IV Extreme
CPU Socket	LGA 2011
Compatible Processors	Intel Core i7 (2nd Generation)
Chipset Type	Intel X79 Express
RAM Memory Technology	DDR3 (2400(O.C.)/2133(O.C.)/1866/1600/1333/1066 MHz)
Memory Slots Available	8
Maximum Memory Capacity	64 GB
Graphics Card Interface	PCI Express (4 x PCIe 3.0/2.0 x16, 1 x PCIe 3.0/2.0 x16 (x8 mode), 1 x PCIe 2.0 x1)
Total SATA Ports	10 (4 x SATA 3Gb/s, 4 x SATA 6Gb/s)
Total USB Ports	8 (USB 2.0)
Main Power Connector	ATX
Bluetooth	v2.1 + EDR

Warranty Information

This product is covered by a warranty provided through the Original Equipment Manufacturer (OEM), ASUS. For specific warranty terms, conditions, and duration, please refer to the warranty card included with your product or visit the official ASUS support website. Keep your proof of purchase for warranty claims.

Support and Contact

For technical assistance, driver downloads, BIOS updates, or further product information, please visit the official ASUS support website. ASUS is known for its customer service, and they can provide detailed guidance for any issues you may encounter.

- **ASUS Support Website:** https://www.asus.com/support/
- **Product Page:** ASUS Rampage IV Extreme on Amazon

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