MSI Z370-A PRO

MSI PRO Series Z370-A PRO Motherboard Instruction Manual

Model: Z370-A PRO

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI PRO Series Z370-A PRO ATX Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and functionality.



Image 1.1: MSI Z370-A PRO Motherboard and Retail Packaging. This image displays the motherboard alongside its retail box, highlighting the product's branding and model number.

2. Setup and Installation

Proper installation is crucial for optimal performance. Follow these steps carefully.

2.1. Component Overview

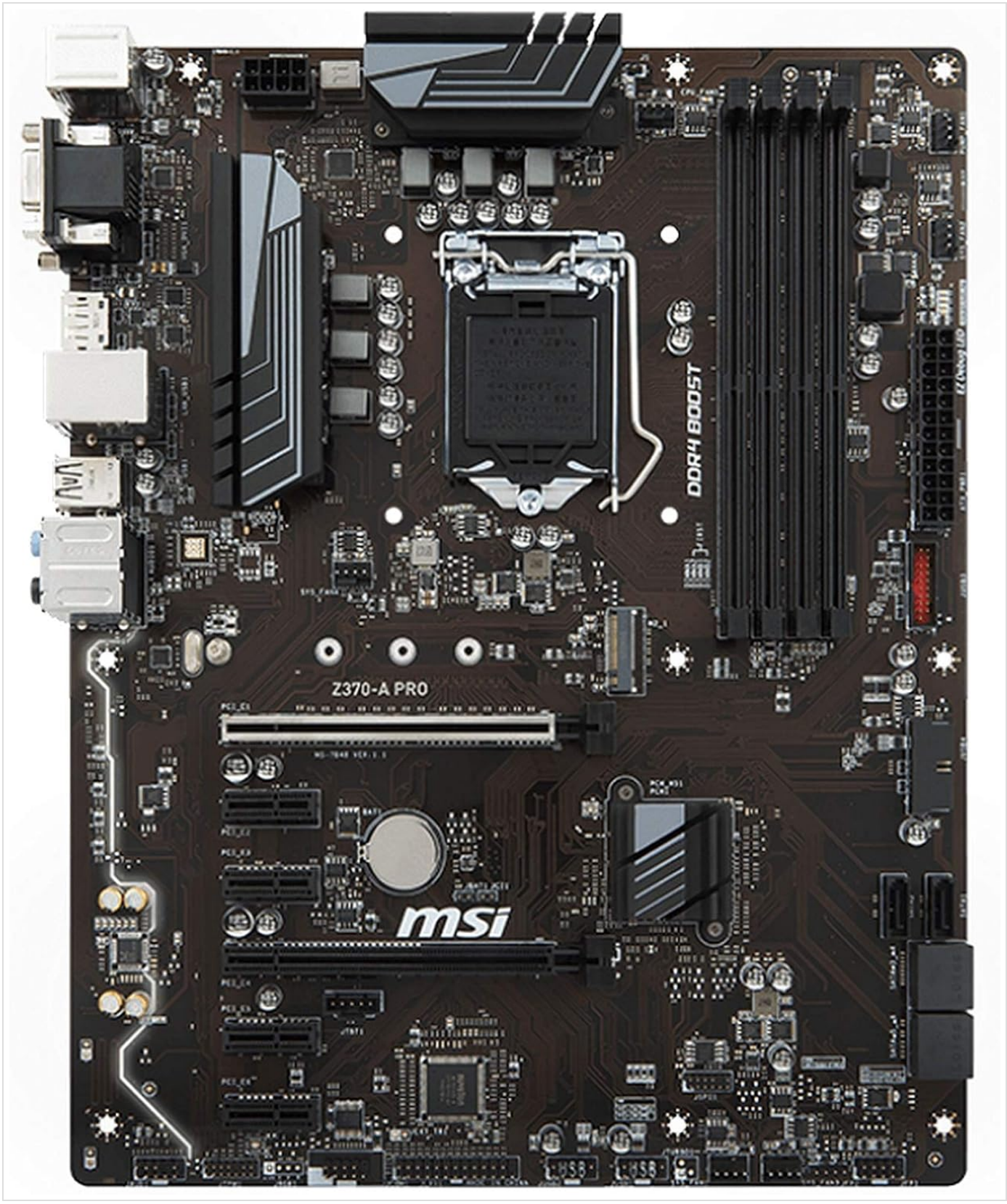


Image 2.1: Top-down view of the MSI Z370-A PRO Motherboard. This image provides a comprehensive view of the motherboard's layout, including CPU socket, RAM slots, and PCI-E slots.

2.2. CPU Installation

This motherboard supports 8th Generation Intel Core, Pentium, and Celeron Processors for Socket LGA 1151. Carefully align the CPU with the socket and gently lower it into place. Secure the retention arm.

2.3. Memory (RAM) Installation

The board features 4 DDR4 DIMM slots, supporting up to 64GB of non-ECC, un-buffered memory. For dual-channel operation, refer to the motherboard's specific slot configuration in the full user manual. Ensure RAM modules are fully seated until the clips lock into place.

2.4. Storage Devices

Utilize the Turbo M.2 slot for high-speed NVMe SSDs, delivering speeds up to 32Gb/s. Connect SATA drives to the available SATA ports.

2.5. Expansion Cards (PCI-E)

The motherboard includes Steel Armor PCI-E slots for graphics cards. It supports AMD 2-Way Crossfire and 2-Way NVIDIA SLI configurations. Insert graphics cards firmly into the primary PCI-E x16 slot.



Image 2.2: Rear I/O Ports of the MSI Z370-A PRO Motherboard. This image details the various connectivity options available on the back panel, including USB, DVI, D-Sub, DisplayPort, LAN, and audio jacks.

2.6. Connecting Peripherals

Connect your display to the D-Sub, DVI, or DisplayPort outputs. Utilize the USB 3.0 ports for high-speed peripheral connections and the Gigabit LAN port for network access.

2.7. Included Accessories

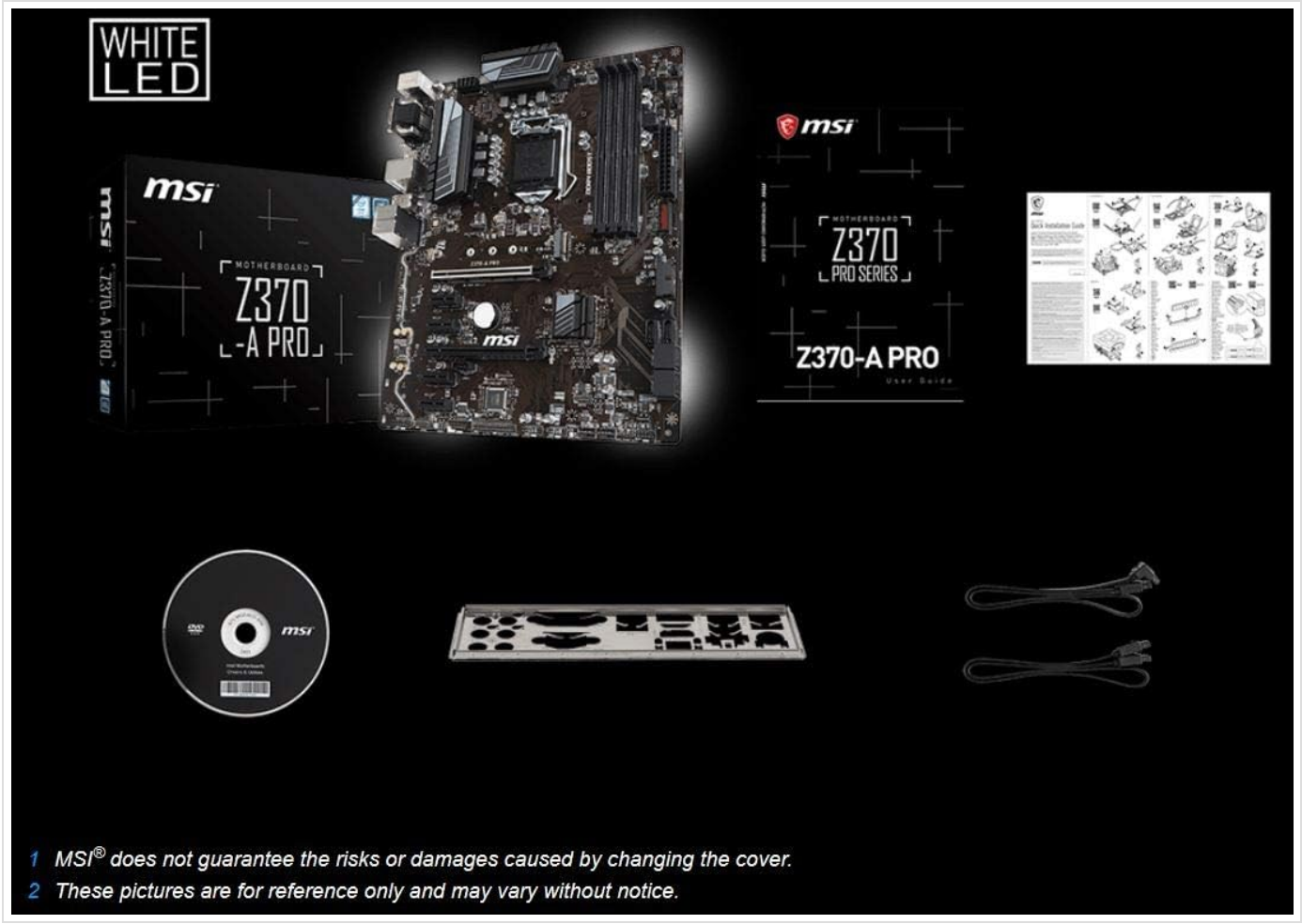


Image 2.3: Included Accessories for MSI Z370-A PRO Motherboard. This image shows the motherboard, user guide, driver CD, I/O shield, and SATA cables, which are typically found in the product packaging.

3. Operating Instructions

3.1. Initial Boot-up

After assembling all components, connect the power supply and monitor. Power on the system. The system should display the MSI logo and prompt for BIOS access.

3.2. BIOS/UEFI Configuration

Press the designated key (usually DEL or F2) during boot-up to enter the BIOS/UEFI interface. Here you can configure system settings, boot order, and enable features like Intel Extreme Memory Profile (XMP) for optimized RAM performance.

3.3. Driver Installation

Install the necessary drivers for the chipset, LAN, audio, and other components from the included driver CD or by downloading the latest versions from the official MSI website.

4. Maintenance

4.1. Cleaning

Regularly clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.

4.2. BIOS Updates

Periodically check the MSI website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, or address known issues. Note that a BIOS update is required for compatibility with 9th Generation Intel CPUs, as the Z370 chipset was originally designed for 8th Generation CPUs.

5. Troubleshooting

This section addresses common issues you might encounter.

- **System Does Not Boot:** Verify all power connections (24-pin ATX, 8-pin CPU), ensure CPU and RAM are correctly seated. Check for any diagnostic LEDs on the motherboard.
- **RAM Issues:** If the system fails to recognize all installed RAM or experiences instability, ensure memory modules are installed in the correct slots for dual-channel operation as specified in the full manual. Try reseating the modules or testing them individually.
- **No Display Output:** Confirm the monitor is connected to the correct graphics output (either integrated or discrete GPU). Reseat the graphics card if applicable.
- **BIOS Update Problems:** If issues arise after a BIOS update, refer to the BIOS recovery procedures detailed in the comprehensive user manual or on the MSI support website.
- **Peripheral Malfunctions:** Ensure drivers are installed correctly for all peripherals. Test devices in different USB ports to rule out port-specific issues.

6. Specifications

Key technical specifications for the MSI Z370-A PRO Motherboard:

Feature	Detail
Brand	MSI
Model Name	Z370-A PRO
CPU Socket	LGA 1151
Compatible Processors	8th Generation Intel Core, Intel Celeron, Intel Pentium
Chipset Type	Intel Z370
RAM Memory Technology	DDR4
Memory Speed	Up to 4000 MHz (OC)
Form Factor	ATX
Product Dimensions	13.7 x 10.6 x 3.1 inches
Item Weight	2.8 pounds
USB Ports	USB 3.0, USB 2.0
Video Outputs	D-Sub, DVI, DisplayPort
LAN	Gigabit LAN

7. Warranty Information

Warranty terms and conditions for the MSI Z370-A PRO Motherboard are typically provided with the product packaging or can be found on the official MSI website. Please retain your proof of purchase for warranty claims.

8. Support and Contact

For further assistance, technical support, driver downloads, and FAQs, please visit the official MSI support website. You can also refer to the comprehensive user manual included with your product for more detailed information.
Official MSI Website: www.msi.com

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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.

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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