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ASRock B365M PRO4

ASRock B365M PRO4 LGA1151 MicroATX Motherboard User Manual

Model: B365M PRO4 | Brand: ASRock

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ASRock B365M PRO4 motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and functionality.



Image: ASRock B365M PRO4 Motherboard and its retail packaging.

2. Package Contents

Verify that all items listed below are present in your product package:

- ASRock B365M PRO4 Motherboard
- Quick Installation Guide
- Support CD (for drivers and utilities)
- I/O Shield
- 2 x SATA Data Cables
- 3 x Screws for M.2 Sockets
- 1 x Standoff for M.2 Socket

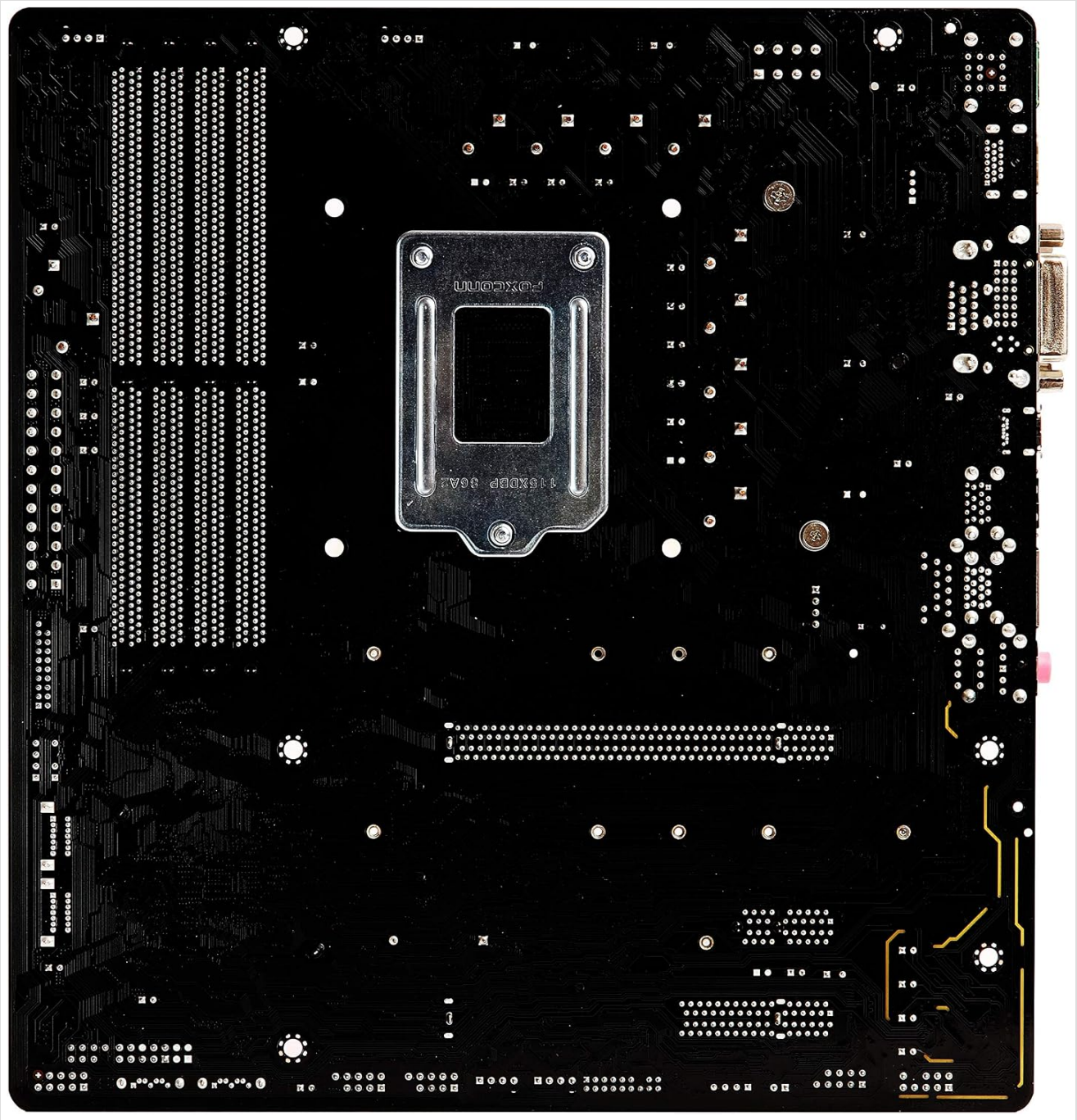

Image: The ASRock B365M PRO4 Motherboard alongside its included accessories, such as cables, screws, and documentation.

3. Setup and Installation

3.1. Motherboard Layout

Familiarize yourself with the motherboard's layout before installation. This MicroATX board is designed for efficient space utilization while offering robust connectivity.



Image: A top-down view of the ASRock B365M PRO4 Motherboard, highlighting component placement.

3.2. CPU Installation

The motherboard features an LGA1151 socket, supporting 8th and 9th Generation Intel Core Processors with a CPU up to 95W. Carefully align the CPU with the socket and gently place it. Secure the retention arm.

3.3. Memory (RAM) Installation

This board includes 4 DDR4 DIMM slots, supporting dual-channel, non-ECC, unbuffered memory up to a maximum capacity of 64GB. Supported memory speeds are 2666/2400/2133 MHz. Install RAM modules into the corresponding slots, ensuring they are fully seated.

3.4. Expansion Slots

The ASRock B365M PRO4 provides the following expansion slots:

- 2 x PCI-Express 3.0 x16 Slots (operates at x16 for single GPU, or x16/x4 for dual GPUs)
- 1 x PCI Express 3.0 x1 Slot (Flexible PCIe)

It supports AMD Quad CrossFireX and CrossFireX Technology for multi-GPU configurations.

3.5. Storage Devices

The motherboard offers versatile storage options:

- **M.2 Slots:** Two M.2 slots are available for NVMe SSDs. One M.2 slot is equipped with a heatsink for optimal thermal performance. An additional M.2 slot is available for a Wi-Fi module (module not included).
- **SATA Ports:** Six SATA3 (6Gb/s) ports are provided for connecting traditional hard drives and SSDs.

3.6. Rear I/O Panel

The rear I/O panel provides various ports for external devices:

- USB 3.1 Gen1 Ports (Type-A and Type-C)
- USB 2.0 Ports
- PS/2 Port (for keyboard/mouse)
- Video Outputs: HDMI, DVI-D, VGA (requires CPU with integrated graphics)
- Gigabit Ethernet (LAN) Port
- Audio Jacks (Line In, Line Out, Microphone)



Image: Close-up view of the rear input/output panel of the ASRock B365M PRO4 Motherboard, showing various ports.

3.7. RGB Headers

The motherboard includes headers for RGB lighting customization:

- 2 x RGB LED Headers
- 1 x Addressable RGB LED Header

4. Operating Instructions

4.1. First Boot

After completing hardware installation, connect your display, keyboard, and mouse. Power on your system. The motherboard will typically display a splash screen. You may need to install an operating system from a bootable USB drive or optical media.

4.2. BIOS/UEFI Access

To enter the BIOS/UEFI setup utility, press the `F2` or `Delete` key during the system's power-on self-test (POST) phase. The BIOS allows configuration of system settings, boot order, and hardware parameters.

5. Maintenance

- **Dust Removal:** Regularly clean dust from the motherboard and components using compressed air to prevent overheating and ensure optimal performance.
- **BIOS Updates:** Periodically check the ASRock website for BIOS updates. Updates can improve stability, add new features, or enhance compatibility. Follow the instructions provided by ASRock carefully when updating the BIOS.
- **Cable Management:** Ensure cables are neatly routed to improve airflow and prevent interference with components.

6. Troubleshooting

- **No Display/Boot:**
  - Verify all power connections (24-pin ATX, 8-pin CPU) are securely seated.
  - Reseat RAM modules in their slots.
  - Ensure the graphics card is properly installed and connected to power (if applicable).
  - If using integrated graphics, ensure your CPU supports it and the display cable is connected to the motherboard's video output.
- **M.2 SSD Not Detected:**
  - Check BIOS settings to ensure M.2 slots are enabled and configured correctly.
  - Some M.2 slots may share bandwidth with SATA ports; consult the detailed manual for specific configurations.
  - Ensure the M.2 SSD is fully seated and secured with the provided screw/standoff.
- **CMOS Clear:** If experiencing boot issues or incorrect settings, clear the CMOS. The CMOS clear jumper is typically located near the first PCI Express slot. Refer to the detailed manual for its exact location and procedure.
- **Driver Issues:** Install all necessary drivers from the provided Support CD or the ASRock official website for optimal hardware functionality.

7. Specifications

Feature	Detail
Brand	ASRock
Model Name	B365M PRO4
CPU Socket	LGA 1151
Compatible Processors	8th/9th Generation Intel Core Processors (up to 95W)
Chipset Type	Intel B365
RAM Memory Technology	DDR4
Memory Speed	2666 MHz (supports 2666/2400/2133 MHz)
Max RAM Capacity	64GB (4 x DIMM slots)

PCI-Express Slots	2 x PCIe 3.0 x16, 1 x PCIe 3.0 x1
Multi-Graphics Support	AMD Quad CrossFireX and CrossFireX Technology
Storage Interfaces	6 x SATA3 6Gb/s, 2 x Ultra M.2 (PCIe Gen3 x4 & SATA3)
USB Ports (Rear)	USB 3.1 Gen1 (Type-A, Type-C), USB 2.0
Video Outputs	HDMI, DVI-D, VGA
LAN	Gigabit Ethernet
Audio	7.1 CH HD Audio (Realtek ALC892 Audio Codec)
Operating System	Microsoft Windows 10 64-bit / 11 64-bit
Form Factor	Micro ATX
Dimensions	12 x 2.5 x 9.6 inches

8. Warranty and Support

For detailed warranty information, technical support, and driver downloads, please visit the official ASRock website or contact ASRock customer service. Keep your purchase receipt for warranty claims.
ASRock Official Website: www.asrock.com

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