ASUS PRIME H570-PLUS

ASUS Prime H570-PLUS Motherboard User Manual

Model: ASUS Prime H570-PLUS

1. PRODUCT OVERVIEW

The ASUS Prime H570-PLUS motherboard is designed to support 11th Gen and 10th Gen Intel Core processors. It features a robust power delivery system, comprehensive cooling solutions, and various tuning options. This motherboard is suitable for daily computing tasks and custom PC builds, offering enhanced security, reliability, and manageability.

2. KEY FEATURES

- **Intel LGA 1200 Socket:** Compatible with 11th Gen and 10th Gen Intel Core processors.
- **Enhanced Power Solution:** Features 8 power stages, alloy chokes, and durable capacitors for stable power delivery to critical components.
- **Ultrafast Connectivity:** Supports PCIe 4.0 for graphics cards and M.2 storage (with 11th Gen Intel CPUs), includes Dual M.2 slots, 1Gb Ethernet, rear USB 3.2 Gen 2 Type-C, and Thunderbolt 4 header support.
- **ASUS OptiMem:** Optimized trace routing and vias to maintain signal integrity, improving memory stability and compatibility.
- **5X Protection III:** Incorporates multiple hardware safeguards for comprehensive system protection.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your product package. If any item is damaged or missing, contact your retailer.
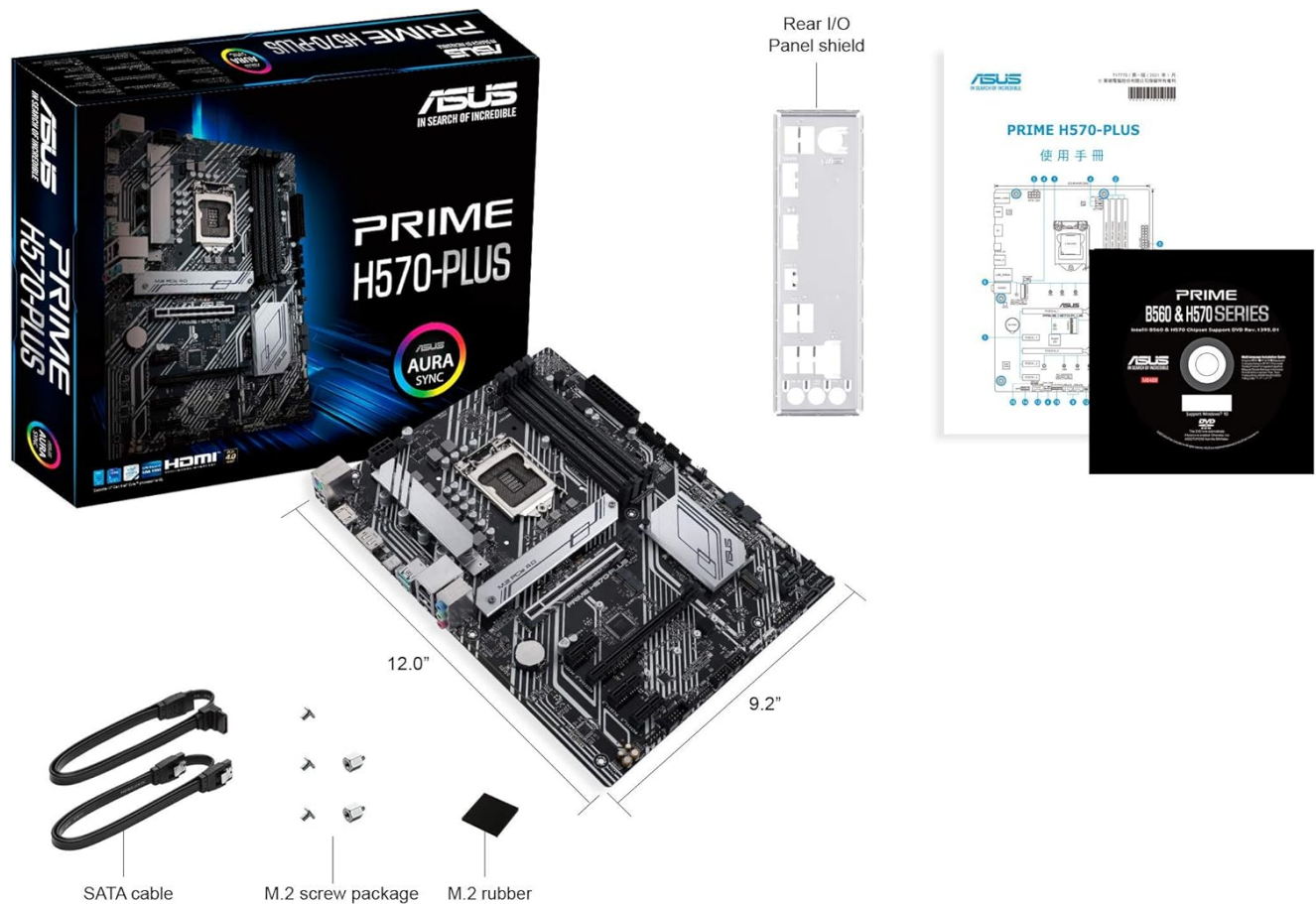

Image 3.1: Motherboard and typical accessories included in the package.

- ASUS Prime H570-PLUS Motherboard
- SATA 6Gb/s cables
- M.2 screw package
- M.2 rubber standoffs
- I/O Shield
- User Manual

- Support DVD (drivers and utilities)

4. MOTHERBOARD LAYOUT AND COMPONENTS

Familiarize yourself with the various components and connectors on the motherboard before installation.
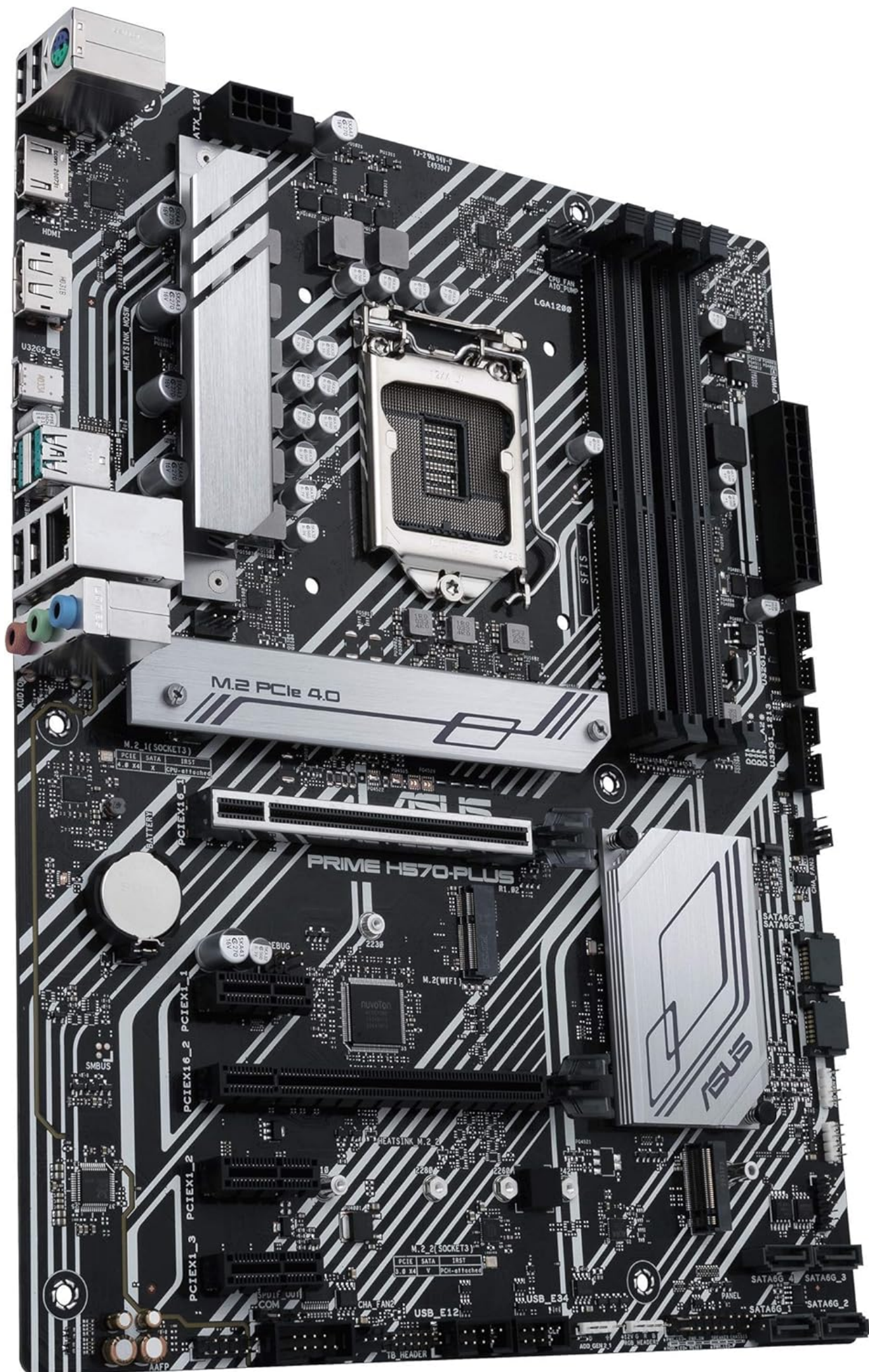
Image 4.1: Angled view of the motherboard, highlighting the CPU socket, RAM slots, and M.2 heatsink.

Image 4.2: Top-down angled view, showing PCIe slots and SATA ports.

Image 4.3: Rear I/O panel, displaying various external connectivity ports.

5. SETUP AND INSTALLATION

5.1 Safety Precautions

- Always disconnect the power cord from the wall outlet before touching any components.
- Use an anti-static wrist strap or discharge static electricity by touching a grounded metal object before handling components.

- Handle components by their edges to avoid touching sensitive parts.

5.2 Component Installation Order

Follow these general steps for installing components onto your motherboard. Refer to the detailed instructions in the complete user manual for specific procedures.

1. **Install the CPU:** Carefully place the Intel LGA 1200 processor into the CPU socket.
2. **Install the CPU Cooler:** Attach the compatible CPU cooler according to its manufacturer's instructions.
3. **Install Memory Modules (RAM):** Insert DDR4 memory modules into the DIMM slots. For optimal performance with two modules, refer to the motherboard manual for recommended slot configuration (e.g., A2/B2).
4. **Install M.2 Storage Devices:** Secure M.2 SSDs into the M.2 slots, utilizing the provided screws and standoffs.
5. **Install Graphics Card (GPU):** Insert your graphics card into the primary PCIe x16 slot.
6. **Install Motherboard into Case:** Mount the motherboard into your PC case, ensuring proper alignment with standoffs.
7. **Connect Power Supply:** Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your power supply to the motherboard.
8. **Connect Storage and Peripherals:** Connect SATA drives, front panel connectors, USB headers, and other peripherals.

6. OPERATING INSTRUCTIONS

6.1 BIOS/UEFI Setup

The BIOS (Basic Input/Output System) or UEFI (Unified Extensible Firmware Interface) is the firmware that initializes your hardware during startup. To access the BIOS/UEFI setup utility, press the **Delete** key or **F2** key during the Power-On Self-Test (POST) process. Here you can configure system settings, boot order, and enable features like XMP for memory overclocking.

6.2 Driver and Software Installation

After installing your operating system, it is crucial to install the latest drivers for your motherboard components to ensure optimal performance and stability. You can find drivers on the included support DVD or download them from the official ASUS support website. ASUS Armoury Crate software can assist with driver updates and system management.

7. MAINTENANCE

- **Dust Removal:** Regularly clean dust from the motherboard and case fans using compressed air to prevent overheating and ensure longevity.
- **BIOS Updates:** Periodically check the ASUS support website for BIOS/UEFI updates. Updates can improve system stability, compatibility, and add new features. Follow the instructions provided by ASUS carefully when updating the BIOS.
- **Cable Management:** Ensure internal cables are neatly routed to improve airflow and prevent interference.

8. TROUBLESHOOTING

If you encounter issues with your system, consider the following basic troubleshooting steps:

- **No Power/No Boot:** Verify all power cables (24-pin ATX, 8-pin CPU) are securely connected to the motherboard

and power supply. Ensure the power supply is switched on.

- **No Display:** Check that your monitor is connected to the graphics card (or motherboard if using integrated graphics) and is powered on. Reseat the graphics card and RAM modules.

- **POST Code Errors:** If your motherboard has diagnostic LEDs or a POST code display, consult the full user manual to interpret the codes.

- **System Instability:** Ensure all drivers are up to date. Test memory modules individually if experiencing frequent crashes.

For more detailed troubleshooting, refer to the comprehensive user manual or visit the ASUS support website.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	ASUS
Model Name	PRIME H570-PLUS
CPU Socket	LGA 1200
Compatible Processors	11th Generation Intel Core, 10th Generation Intel Core
Chipset	Intel H570
Memory Type	DDR4
Memory Speed (Base)	2133 MHz (Supports higher speeds via XMP)
Expansion Slots	1 x PCIe 4.0 x16 (with 11th Gen CPU), Multiple PCIe 3.0 slots
Storage	Dual M.2 slots, SATA 6Gb/s ports
LAN	Intel 1Gb Ethernet
USB Ports	Rear USB 3.2 Gen 2 Type-C, various USB 3.2 Gen 1 and USB 2.0 ports
Video Outputs	HDMI, DVI, DisplayPort (functionality depends on CPU integrated graphics)
Form Factor	ATX

10. WARRANTY AND TECHNICAL SUPPORT

Your ASUS Prime H570-PLUS motherboard comes with a manufacturer's warranty. For details regarding warranty terms, duration, and service procedures, please refer to the warranty card included in your package or visit the official ASUS support website. For technical assistance, driver downloads, and further information, please visit ASUS Support.

Related Documents - PRIME H570-PLUS

PRIME H570M-PLUS **Motherboard**	**[ASUS PRIME H570M-PLUS Motherboard User Manual](#)** Comprehensive user manual for the ASUS PRIME H570M-PLUS motherboard, detailing specifications, installation guides, BIOS setup, rear panel connectors, and safety information.
PRIME H510M-R **Motherboard**	**[ASUS PRIME H510M-R Motherboard Benutzerhandbuch: Installation, Spezifikationen und BIOS-Infos](#)** Umfassendes Benutzerhandbuch für das ASUS PRIME H510M-R Motherboard, das Installation, Sicherheitshinweise, Hardware-Übersicht, BIOS-Informationen, detaillierte Spezifikationen und Umwelt-Compliance abdeckt.
PRIME Z490-P **Motherboard**	**[ASUS PRIME Z490-P Motherboard User Manual: Installation, Specs & Guide](#)** Comprehensive user manual for the ASUS PRIME Z490-P motherboard. Covers installation, BIOS setup, specifications, and safety guidelines for Intel Z490 chipset systems.
PRIME H410M-CS **Motherboard**	**[ASUS PRIME H410M-CS Motherboard User Manual](#)** User manual for the ASUS PRIME H410M-CS motherboard, detailing installation, specifications, BIOS setup, and features. Includes product overview, safety information, and technical support resources.
Pro B460M-C **Motherboard**	**[ASUS Pro B460M-C Motherboard User Manual	Installation, Specifications, and BIOS Guide](#)** Comprehensive user manual for the ASUS Pro B460M-C motherboard. Find detailed information on installation, specifications, layout, BIOS setup, safety precautions, and compliance statements.
Pro WS W480-ACE **Motherboard**	**[ASUS Pro WS W480-ACE Motherboard User Manual](#)** Detailed user manual for the ASUS Pro WS W480-ACE motherboard, covering installation, specifications, BIOS, RAID, and troubleshooting. Learn about CPU, memory, expansion slots, storage, I/O, and special features for professional workstation use.