

## ASUS P7H55-M LX

# ASUS P7H55-M LX Motherboard User Manual

Model: P7H55-M LX

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## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ASUS P7H55-M LX motherboard. Please read this manual thoroughly before installing or using the product to ensure correct setup and optimal performance. The ASUS P7H55-M LX is a Micro ATX motherboard designed for Intel Socket 1156 processors, featuring the Intel H55 chipset and DDR3 memory support.

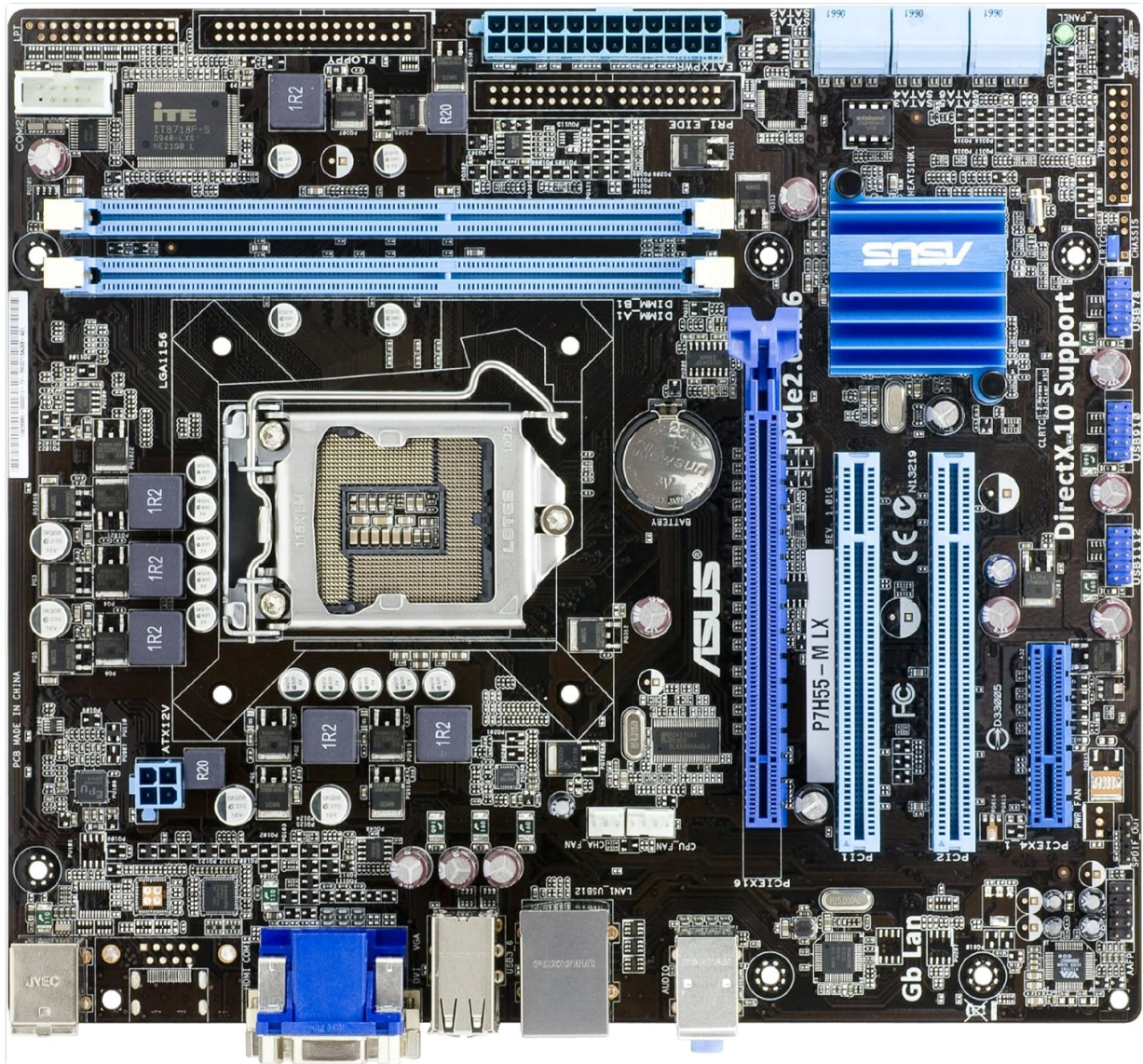


Figure 1: Top-down view of the ASUS P7H55-M LX motherboard, showing the CPU socket, RAM slots, and expansion slots.

## 2. KEY FEATURES

The ASUS P7H55-M LX motherboard offers a robust platform with the following key features:

- **CPU Support:** Socket 1156 for Intel Core i7, Core i5, Core i3, and Pentium Processors, including Intel Next Generation 32nm Multi-Core CPUs.
- **Chipset:** Intel H55 Express.
- **Memory:** Two 240-pin DDR3 DIMM slots, supporting DDR3-1333/1066 Non-ECC/Unbuffered memory, with a maximum capacity of 8GB in dual-channel configuration.
- **Expansion Slots:** One PCI-Express 2.0 x16 slot, one PCI-Express 2.0 x4 slot, and two PCI slots.
- **Storage:** Six SATA2 ports for connecting storage devices.
- **LAN:** Realtek 8112L PCI-E Gigabit Ethernet Controller for network connectivity.
- **USB:** Twelve USB 2.0 ports (six on the rear panel, six available via mid-board headers).
- **Video Output:** Integrated DVI and VGA ports for display connectivity.
- **Audio:** High-definition audio jacks.

## 3. SYSTEM SETUP

Follow these steps for proper installation of your motherboard and its components.

### 3.1. CPU Installation

1. Locate the LGA 1156 CPU socket on the motherboard.
2. Open the CPU socket lever and lift the load plate.
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 the socket.
4. Close the load plate and push down the lever until it locks into place.
5. Install the CPU cooler according to its manufacturer's instructions.

### 3.2. Memory Installation

1. Open the clips at both ends of the DDR3 DIMM slots.
2. Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.
4. For dual-channel operation, install memory modules in matching colored slots (e.g., both blue slots).

### 3.3. Expansion Card Installation

1. Identify the appropriate PCI Express or PCI slot for your expansion card.
2. Remove the corresponding metal slot cover from your computer case.
3. Align the card with the slot and press down firmly until it is securely seated.
4. Secure the card with a screw or retention clip from your computer case.

### 3.4. Storage Device Connection

Connect your SATA storage devices (hard drives, SSDs, optical drives) to the SATA2 ports on the motherboard using SATA data cables. Ensure power cables from your power supply are also connected to these devices.

### 3.5. Front Panel Connectors

Connect the power switch, reset switch, HDD LED, power LED, and front panel audio/USB headers from your computer case to the corresponding pins on the motherboard. Refer to the motherboard layout diagram for exact pin locations.

### 3.6. Power Connections

Connect the 24-pin ATX power connector and the 4-pin ATX 12V power connector from your power supply unit (PSU) to the respective sockets on the motherboard. Ensure all connections are firm.

### 3.7. Rear Panel Connections

Connect your peripherals to the rear I/O panel ports. This includes USB devices, monitor cables (VGA/DVI), Ethernet cable, and audio devices.



Figure 2: Rear I/O panel of the ASUS P7H55-M LX motherboard, showing PS/2 ports, VGA, DVI, USB 2.0, LAN, and audio jacks.

## 4. OPERATING INSTRUCTIONS

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### 4.1. First Boot

After assembling all components and connecting power, press the power button on your computer case. The system should power on, and you should see a display on your monitor. If not, refer to the Troubleshooting section.

### 4.2. BIOS/UEFI Setup

To access the BIOS (Basic Input/Output System) setup utility, press the **DEL** key during the Power-On Self-Test (POST) process. The BIOS allows you to configure system settings such as boot order, date/time, and hardware parameters.

### 4.3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard components. These typically include chipset drivers, LAN drivers, audio drivers, and integrated graphics drivers (if using the CPU's integrated graphics). Drivers are usually provided on a support CD or can be downloaded from the ASUS official website.

## 5. MAINTENANCE

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Regular maintenance helps ensure the longevity and stable operation of your motherboard.

- **Cleaning:** Periodically clean dust from inside your computer case, especially around the CPU cooler, chipset heatsinks, and fan vents. Use compressed air for best results. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** BIOS updates can provide improved compatibility, stability, and new features. Check the ASUS support website for the latest BIOS versions for your P7H55-M LX motherboard. Follow the provided instructions carefully when performing a BIOS update to avoid system instability.
- **Cable Management:** Ensure internal cables are neatly routed to improve airflow and prevent interference.

## 6. TROUBLESHOOTING

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If you encounter issues, consider the following common troubleshooting steps:

- **No Power:** Ensure the PSU is switched on and all power cables (24-pin ATX, 4-pin ATX 12V) are securely connected to the motherboard and components. Check the front panel power switch connection.
- **No Display:** Verify that the monitor is connected to the correct video output port (VGA or DVI) and is powered on. Reseat the memory modules and any installed graphics cards. If using a dedicated graphics card, ensure the monitor is connected to it, not the motherboard's integrated ports.
- **System Instability/Crashes:** Check for proper CPU cooler installation and thermal paste application. Ensure memory modules are correctly seated. Update drivers and BIOS to the latest versions.
- **Component Not Detected:** Verify that the component (e.g., hard drive, expansion card) is correctly installed and powered. Check cable connections.



- **Clear CMOS:** If system settings become corrupted or you cannot boot, clear the CMOS by either removing the motherboard battery for a few minutes (with the system unplugged) or using the Clear CMOS jumper (refer to the motherboard layout for location).

## 7. TECHNICAL SPECIFICATIONS

Component	Specification
Product Dimensions	10.7 x 10.3 x 2.2 inches
Item Weight	1.8 pounds
CPU Socket	LGA 1156
Compatible Processors	Intel Core i7, Core i5, Core i3, Pentium
Chipset Type	Intel H55 Express
RAM Memory Technology	DDR3
Memory Clock Speed	1333 MHz
Memory Storage Capacity (Max)	8 GB
Expansion Slots	1x PCI-Express 2.0 x16, 1x PCI-Express 2.0 x4, 2x PCI
SATA Ports	6x SATA2
LAN	Realtek 8112L PCI-E Gigabit Ethernet
USB Ports	12x USB 2.0 (6 rear, 6 mid-board)
Video Ports	1x DVI, 1x VGA
Audio Ports	Audio I/O Jacks
Platform	Windows 10 (Compatible)

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, and driver downloads, please visit the official ASUS support website. You can find detailed information by searching for your product model, P7H55-M LX, on their support pages.

**ASUS Support Website:** <https://www.asus.com/support/>

Please retain your proof of purchase for any warranty claims.

<div>PRIME B365M-K</div> <div>  <div>Motherboard</div> </div>	<p><a href="#">ASUS PRIME B365M-K Motherboard User Manual</a></p> <p>This user manual provides comprehensive information for the ASUS PRIME B365M-K motherboard, covering installation, BIOS setup, and specifications. It details component connections, safety precautions, and system configuration options.</p>
<div>H87-PRO</div> <div>  <div>Motherboard</div> </div>	<p><a href="#">ASUS H87-PRO Motherboard User Manual</a></p> <p>Comprehensive user manual for the ASUS H87-PRO motherboard, covering installation, BIOS setup, software support, RAID configurations, and detailed specifications. Includes safety information and operational guidelines.</p>
<div>TUF H310-PLUS</div> <div>  <div>Motherboard</div> </div>	<p><a href="#">ASUS TUF H310-PLUS GAMING Motherboard User Guide</a></p> <p>Comprehensive user guide for the ASUS TUF H310-PLUS GAMING motherboard, detailing specifications, package contents, installation instructions, BIOS setup, and exclusive ASUS features.</p>
<div>TUF GAMING B660-PLUS WIFI D4</div> <div>  <div>Motherboard</div> </div>	<p><a href="#">ASUS TUF Gaming B660-PLUS WIFI D4 Motherboard User Manual</a></p> <p>Comprehensive user manual for the ASUS TUF Gaming B660-PLUS WIFI D4 ATX motherboard. Includes installation guides, specifications, safety information, BIOS setup, and support details.</p>
<div>Pro H410M-C</div> <div>  <div>Motherboard</div> </div>	<p><a href="#">ASUS Pro H410M-C Motherboard User Manual: Installation, Specifications, and BIOS Guide</a></p> <p>Comprehensive user manual for the ASUS Pro H410M-C motherboard. Covers installation procedures, technical specifications, BIOS setup, safety precautions, and component layout for Intel LGA1200 processors.</p>

TUF GAMING B560M-E



## [ASUS TUF GAMING B560M-E Motherboard: Specifications, Features, and Installation Guide](#)

A comprehensive guide to the ASUS TUF GAMING B560M-E motherboard, detailing its specifications, features, package contents, installation procedures for CPU, RAM, and Wi-Fi cards, and BIOS settings. Includes troubleshooting information and safety precautions.