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› Foxin H110 Motherboard Prime User Manual

Foxin FMB-H110 PRIME

Foxin H110 Motherboard Prime User Manual

Model: FMB-H110 PRIME | Brand: Foxin

1. PRODUCT OVERVIEW

The Foxin H110 Motherboard Prime is a robust and efficient foundation for your desktop PC. Designed with the LGA 1151 socket and H110 chipset, it supports Intel 6th, 7th, and 8th generation Core i3, i5, and i7 CPUs. This motherboard features dual-channel DDR4 RAM support up to 32GB, an NVMe M.2 port for high-speed storage, and a comprehensive set of connectivity options including USB 3.0, HDMI, and VGA.



Figure 1.1: Foxin H110 Motherboard Prime highlighting key features.

Key Features:

- **LGA 1151 Socket with H110 Chipset:** Supports Intel 14nm i3/i5/i7 CPUs from the 6th, 7th, and 8th generations for stable system builds.
- **Dual Channel DDR4 RAM Support (Up to 32GB):** Enables smooth multitasking and performance with 2x16GB DDR4 modules.
- **NVMe M.2 Port + 4x SATA 3.0 Slots:** Provides lightning-fast storage access and versatile expansion for SSD/HDD.
- **Modern Connectivity Ports:** Includes HDMI, VGA, USB 3.0, USB 2.0, Ethernet LAN, and HD 6 Channel Audio.
- **Durable Build:** Engineered for long-term reliability.

Product Video Overview:

Video 1.1: An overview of the Foxin H110 Motherboard Prime's features and specifications.

2. PACKAGE CONTENTS

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



Figure 2.1: Items included in the Foxin H110 Motherboard Prime retail box.

- Foxin H110 Motherboard Prime
- I/O Shielding
- SATA Data Cable
- Driver CD
- User Manual (this document)

3. COMPONENT IDENTIFICATION

Familiarize yourself with the various components and connectors on your motherboard before installation.

H110 Motherboard Interface Details

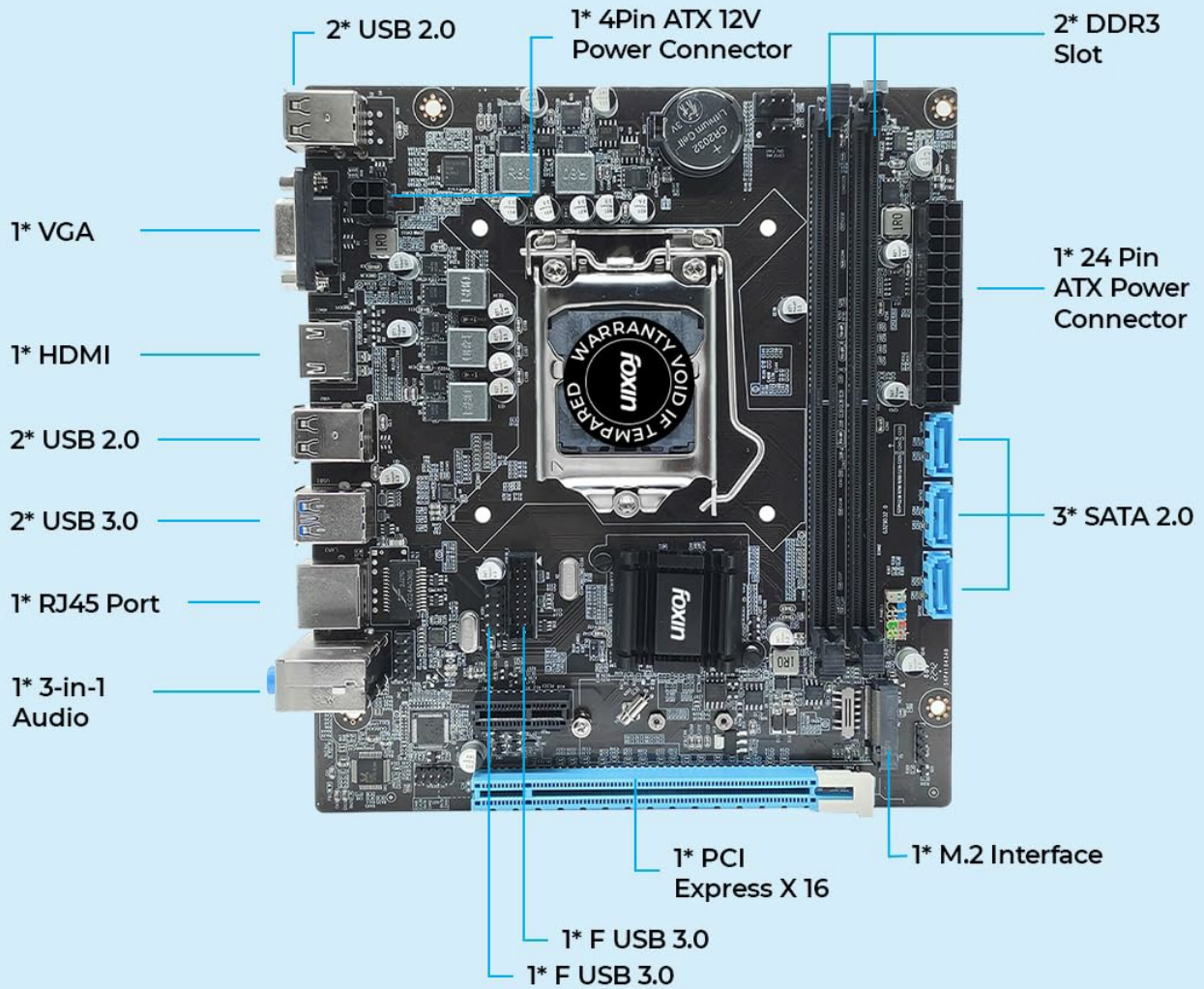


Figure 3.1: Detailed layout of the H110 Motherboard Prime interfaces.

Key Connectors:

- **CPU Socket (LGA 1151):** For Intel 6th, 7th, and 8th Gen processors.
- **DDR4 Memory Slots:** Two slots supporting up to 32GB DDR4 RAM.
- **NVMe M.2 Interface:** High-speed slot for M.2 SSDs.
- **SATA 3.0 Ports:** Four ports for connecting SATA storage devices.
- **PCI Express X16 Slot:** For graphics cards.
- **PCI Express X1 Slots:** For expansion cards.
- **24-Pin ATX Power Connector:** Main power input from PSU.
- **4-Pin ATX 12V Power Connector:** CPU power input from PSU.
- **Rear I/O Ports:** Includes USB 2.0, USB 3.0, HDMI, VGA, RJ45 LAN, and 3-in-1 Audio Jacks.

4. SETUP INSTRUCTIONS

Follow these steps for proper installation of your Foxin H110 Motherboard Prime into your PC chassis.

4.1 CPU Installation

1. Locate the LGA 1151 socket on the motherboard.
2. Gently push down the load lever and pull it to the side to open the CPU socket retention frame.
3. Align the triangular mark on your Intel CPU with the corresponding mark on the socket. Carefully place the CPU into the socket without forcing it.
4. Close the retention frame and push the load lever back into its locked position.

Intel LGA 1151 Socket

Featuring an LGA 1151 socket, this motherboard supports Intel 6th & 7th Gen (Skylake/Kaby Lake) Core i3, i5, and i7 processors, providing a solid foundation for high-speed computing.

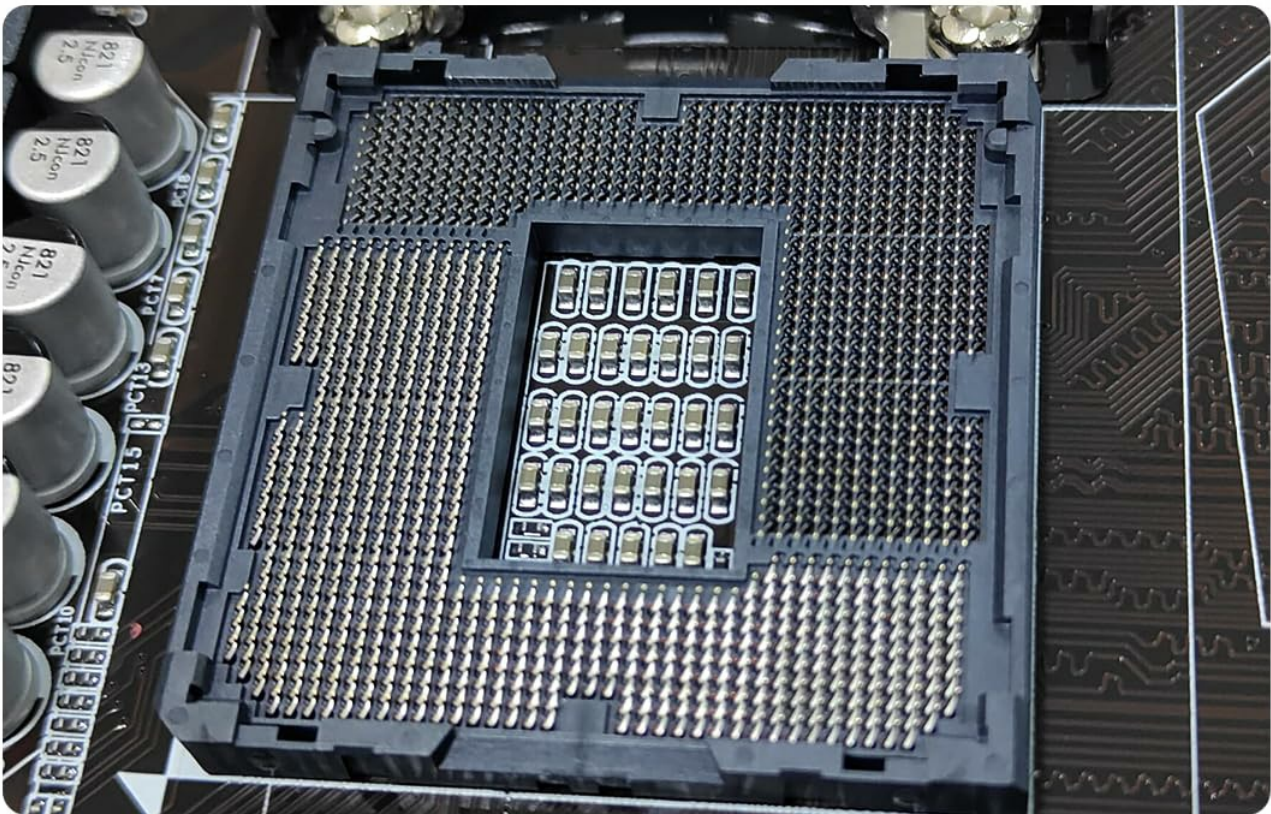


Figure 4.1: Intel LGA 1151 Socket for CPU installation.

4.2 RAM Installation

1. Open the clips on both ends of the DDR4 memory slots.
2. Align the notch on the DDR4 RAM module with the key in the memory slot.
3. Press down firmly on both ends of the RAM module until the clips snap into place.
4. For dual-channel operation, install RAM modules in both slots.

2 DDR4 Memory Slots

Supports Dual-Channel DDR4, up to 32GB (16GB x 2), 2133 MHz, delivering faster data processing.

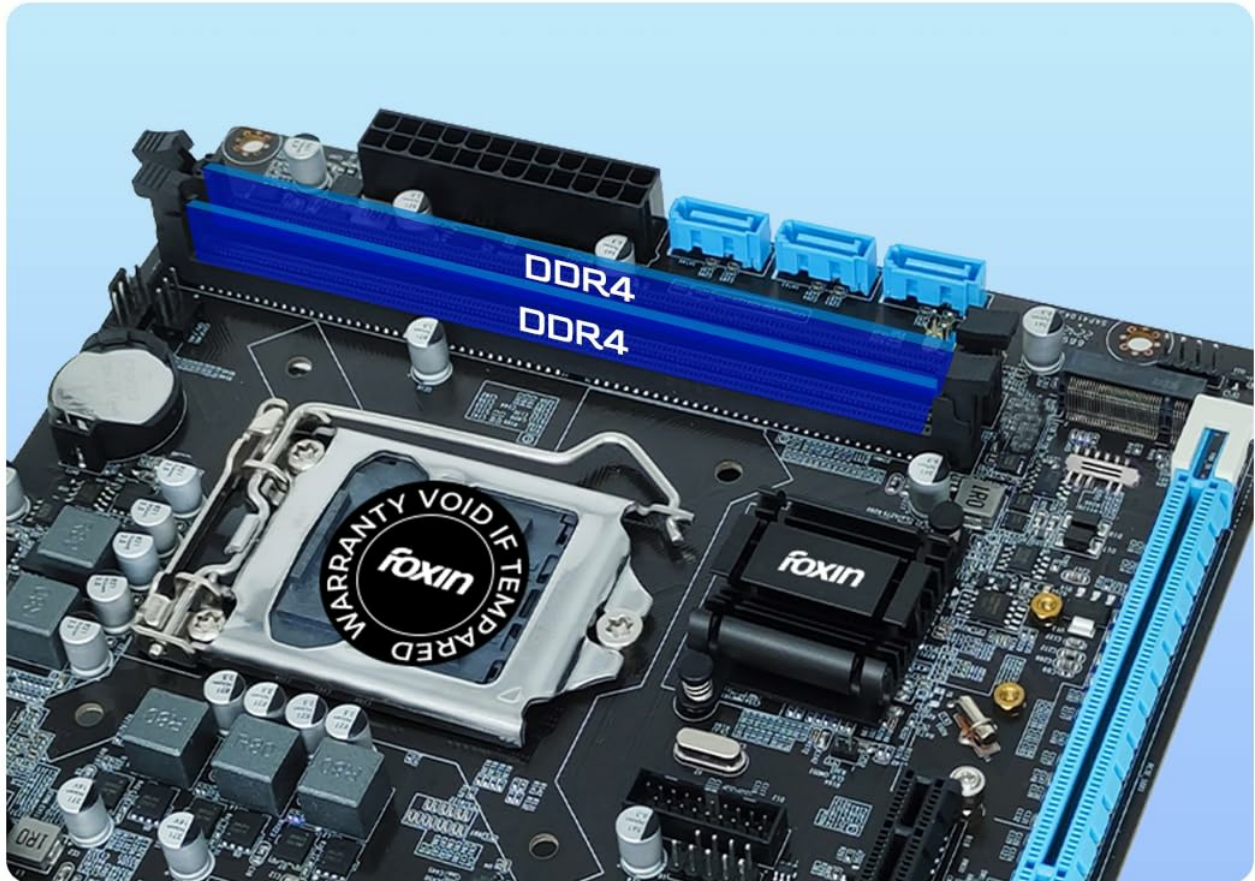


Figure 4.2: DDR4 Memory Slots for RAM installation.

4.3 Storage Device Installation (NVMe M.2 / SATA)

1. **For NVMe M.2 SSD:** Insert the M.2 SSD into the M.2 slot at an angle, then gently push it down and secure it with the provided screw.
2. **For SATA Drives:** Connect one end of the SATA data cable to a SATA 3.0 port on the motherboard and the other end to your HDD/SSD. Ensure the drive is also connected to your power supply.

NVME/SATA M.2 SSD Interface

Features 1x NVME/NGFF connector for next-gen SSDs, 1x PCI Express x16 slot & 1x PCI Express x1 slot for expansion, and 4x SATA 3.0 (6Gbps) ports for fast and reliable storage solutions.

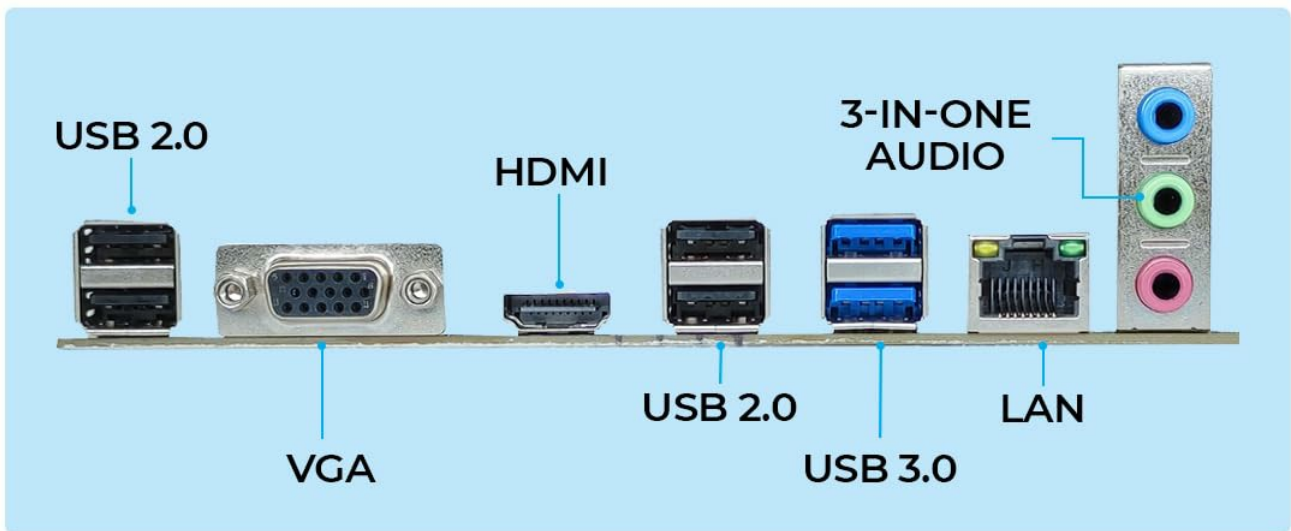
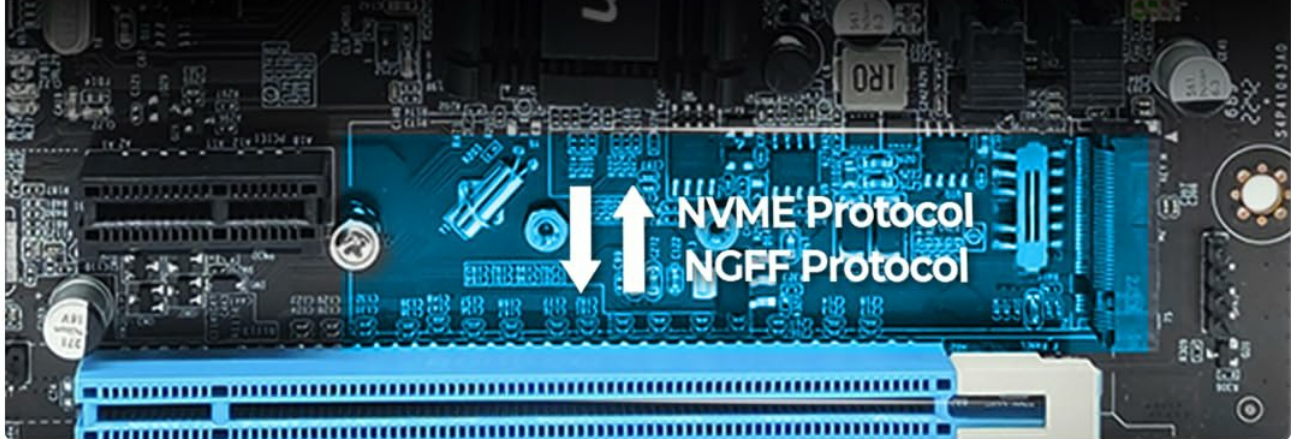


Figure 4.3: NVMe M.2 SSD Interface and I/O ports.

4.4 Power Supply Connection

1. Connect the 24-pin ATX power cable from your power supply unit (PSU) to the 24-pin connector on the motherboard.
2. Connect the 4-pin ATX 12V power cable from your PSU to the 4-pin CPU power connector on the motherboard.

4.5 Front Panel Connectors

Connect the front panel cables (Power LED, HDD LED, Power Switch, Reset Switch, USB, Audio) from your PC chassis to the corresponding headers on the motherboard. Refer to the motherboard diagram in Section 3 for exact locations.

5. OPERATING INSTRUCTIONS

5.1 First Boot

After completing all hardware installations, connect your monitor, keyboard, and mouse. Power on your system. The system should display the BIOS/UEFI screen or begin the operating system installation process.

5.2 BIOS/UEFI Configuration

During startup, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup. Here you can configure boot order, system time, and other advanced settings. Save changes before exiting.

5.3 Driver Installation

After installing your operating system, install the necessary drivers for the motherboard components. Use the provided driver CD or download the latest drivers from the Foxin official website for optimal performance and stability.

6. MAINTENANCE

- **Keep Clean:** Regularly clean dust from your PC components, especially the motherboard and CPU cooler, to prevent overheating.
- **BIOS Updates:** Check the Foxin website periodically for BIOS/UEFI updates. Only update if necessary and follow instructions carefully.
- **Driver Updates:** Keep your motherboard drivers updated to ensure compatibility and optimal performance with new software and hardware.

7. TROUBLESHOOTING

7.1 No Display Output

- Ensure the monitor is correctly connected to the graphics output (HDMI/VGA) on the motherboard or dedicated graphics card.
- Verify that the graphics card (if installed) is properly seated in its PCIe slot and has adequate power.
- Check RAM modules are correctly seated. Try booting with one RAM stick at a time.

7.2 System Not Booting

- Confirm all power cables (24-pin ATX, 4-pin CPU) are securely connected.
- Check CPU installation and ensure the CPU cooler is properly mounted.
- Disconnect all non-essential peripherals and storage devices to isolate the issue.

7.3 Peripheral Issues

- Ensure USB devices are connected to the correct ports (USB 2.0 vs. USB 3.0).
- Install or update the latest chipset and USB drivers.
- For audio issues, verify speaker/headphone connections and install the latest audio drivers.

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	Foxin
Model Name	FMB H110 PRIME
CPU Socket	LGA 1151
Chipset Type	H110
Compatible Processors	Intel Core i3, Intel Core i5, Intel Core i7 (6th, 7th, 8th Gen)
RAM Memory Technology	DDR4
Memory Slots Available	2
Ram Memory Maximum Size	32 GB
Memory Clock Speed	2133 MHz
Graphics Card Interface	PCI Express
Total SATA Ports	4
NVMe M.2 Port	Yes
USB 2.0 Ports	4
USB 3.0 Ports	2
Total HDMI Port	1
VGA Port	1
Number of Ethernet Ports	1
Audio	HD 6 Channel Audio
Main Power Connector Type	24-Pin
Item Weight	500 Grams
Item Dimensions L x W x H	19L x 8W x 4H Centimeters

9. WARRANTY AND SUPPORT

The Foxin H110 Motherboard Prime comes with a **730-day warranty** from the date of purchase. This warranty covers manufacturing defects and ensures long-term reliability for your product.

For technical support, warranty claims, or further assistance, please contact Foxin customer service or visit the official Foxin website for updated contact information and resources.

Manufacturer Contact Information: Balaji Solutions Private Limited, Ecospace Business Park Plot No- 2F/11, Action Area II, Block-4B, 9TH Floor, Unit No - 902, Rajarhat Newtown, Kolkata, West Bengal 700156.

