SHANGZHAOYUAN X99 PR9-H

SHANGZHAOYUAN X99 LGA 2011-3 Motherboard User Manual

Model: X99 PR9-H1

| Introduction | Setup | Operating | Maintenance | Troubleshooting | Specifications | Support |

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your SHANGZHAOYUAN X99 LGA 2011-3 Motherboard. This motherboard is designed to support Intel Xeon E5 V3/V4 and Core i7 Series Processors, offering robust performance for PC server and gaming applications.

Image 1.1: SHANGZHAOYUAN X99 PR9-H Motherboard and retail packaging.

2. SETUP AND INSTALLATION

Follow these steps carefully to install your motherboard and its components.

2.1. CPU Installation

The X99 PR9-H motherboard features an LGA 2011-3 socket, compatible with a wide range of Intel Xeon E5 V3/V4 and Core i7 series processors. Ensure the CPU is correctly oriented before placing it into the socket. Gently lower the retention arm to secure the CPU.

Intel LGA 2011-3 Socket

Compatible with Intel LGA 2011-3 socket CPUs.(Like Intel E5-2678- V3, E5-2629-V3, E5-2640-V3, E5-2676 V3, E5-2620-V3, E5-2650-V4, E5-2686-V4, Core i7-6800k, Core i7-6800k, etc.)
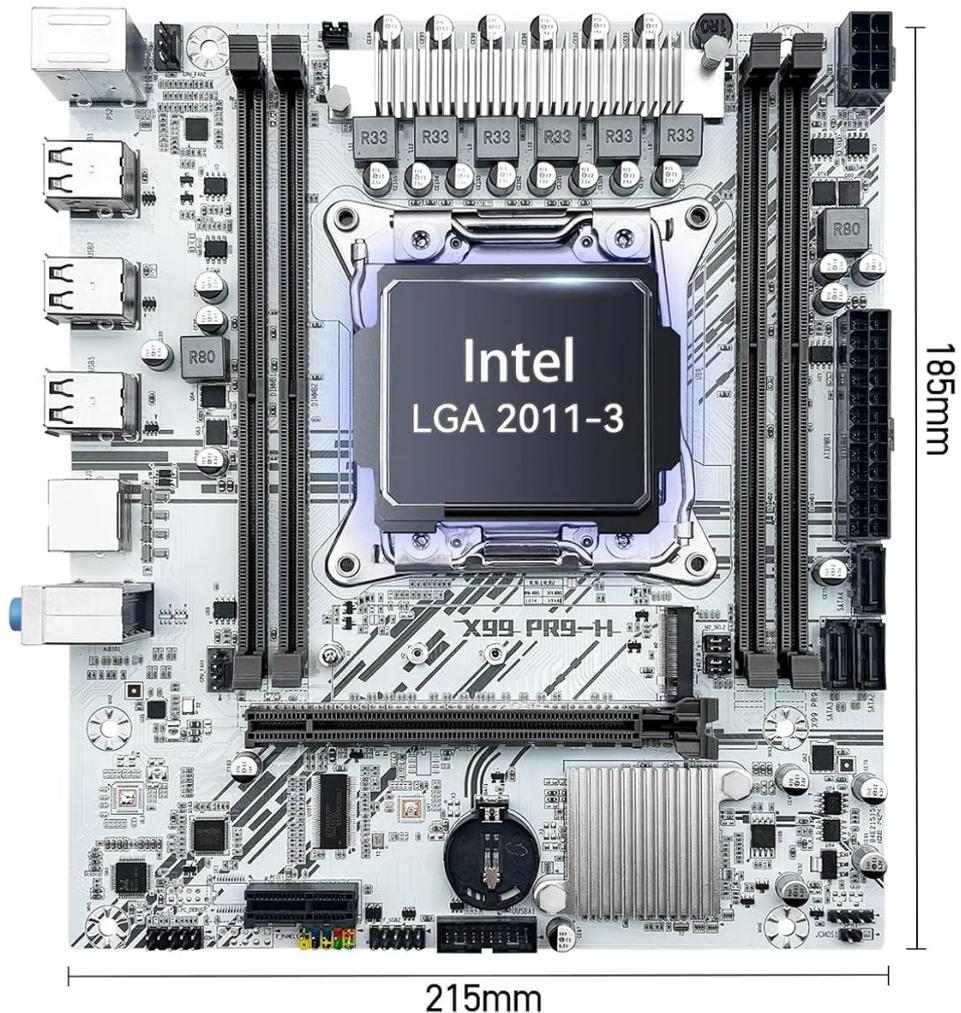
185mm

215mm

Image 2.1: Close-up of the Intel LGA 2011-3 Socket on the X99 PR9-H motherboard, showing its dimensions (215mm x 185mm).

2.2. Memory (RAM) Installation

The motherboard supports dual-channel DDR4 memory with four RAM slots, allowing for a maximum capacity of 128GB (2133/2400MHz). For optimal performance, install memory modules in pairs for dual-channel operation.

Dual-channel DDR4 Motherboard

The LGA2011-3 Motherboard is equipped with 4 DDR4 memory slots, the MAX memory is up to 128GB (4*32GB). And support 2133MHz/2400MHz RAM.

Image 2.2: The four DDR4 memory slots on the X99 PR9-H motherboard, indicating dual-channel capability.

How to install memory?

▶ Install One RAM: Please install it in the ④ slot only

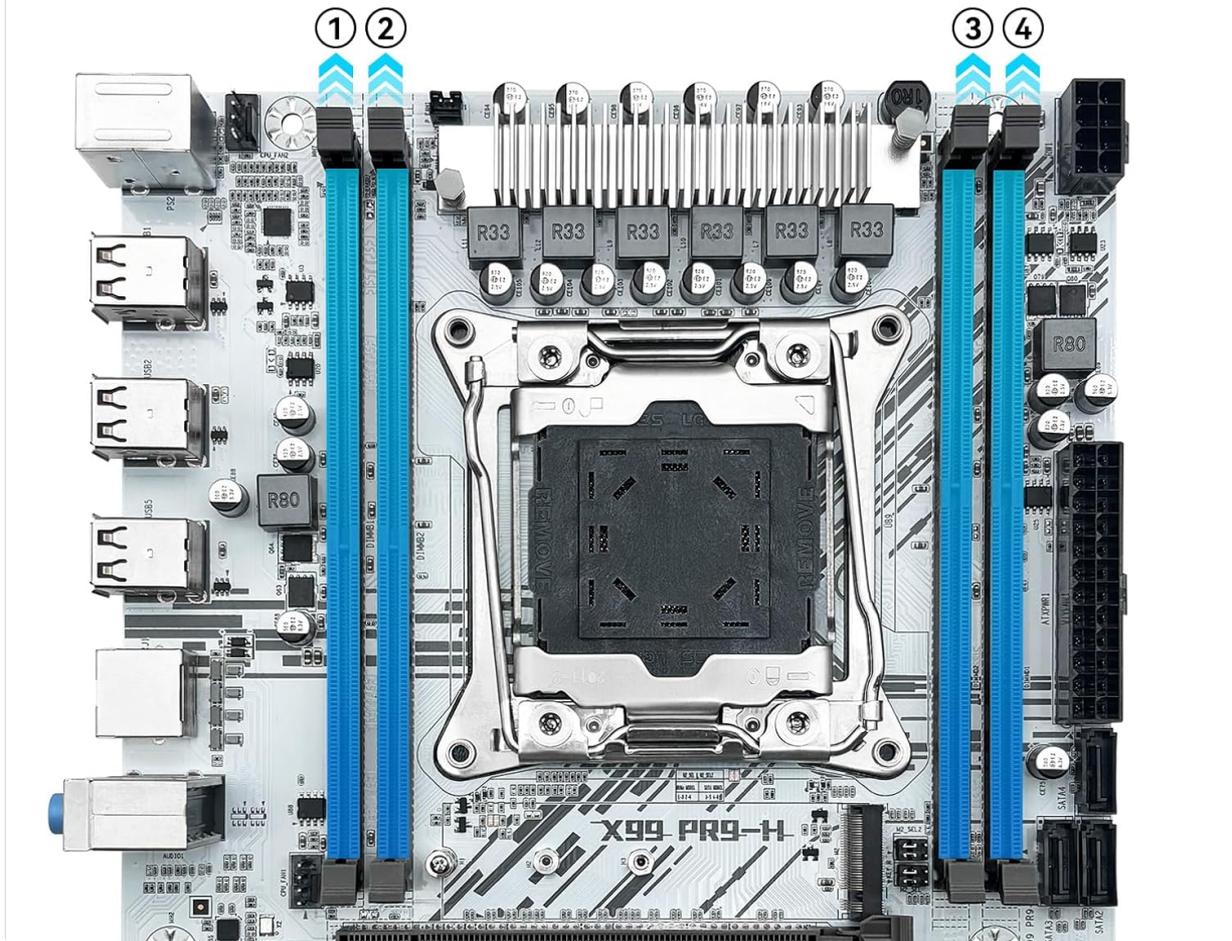▶ Install Two RAMs: Please install them in the ① slot and ④ slot.

Image 2.3: Instructions for installing RAM: For one module, use slot 4. For two modules, use slots 1 and 4.

2.3. Storage (M.2 SSD) Installation

The motherboard includes an M.2 slot that supports both NVMe M.2 SSDs (PCIe 3.0 x4, up to 3600MB/s) and NGFF M.2 SSDs (SATA). The default mode is NVMe M.2 (PCIe), which can be switched to NGFF M.2 (SATA) if needed.

M.2 & PCIe Slots

▶ With 1*PCIe 3.0 x16 slot; 1*PCIe 2.0 x1 slot, and 1*M.2 slot.

▶ The M.2 slot supports NVME M.2 SSD and NGFF M.2 SSD, the default mode is NVME M.2 (PCIe), can be switched to NGFF M.2 (SATA).

Image 2.4: Location of the M.2 slot and PCIe 3.0 x16 and PCIe 2.0 x1 slots.

2.4. Power Supply Connection

Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your power supply unit (PSU) to the corresponding ports on the motherboard. Ensure all connections are secure to provide stable power to the CPU and other components.

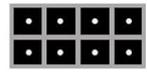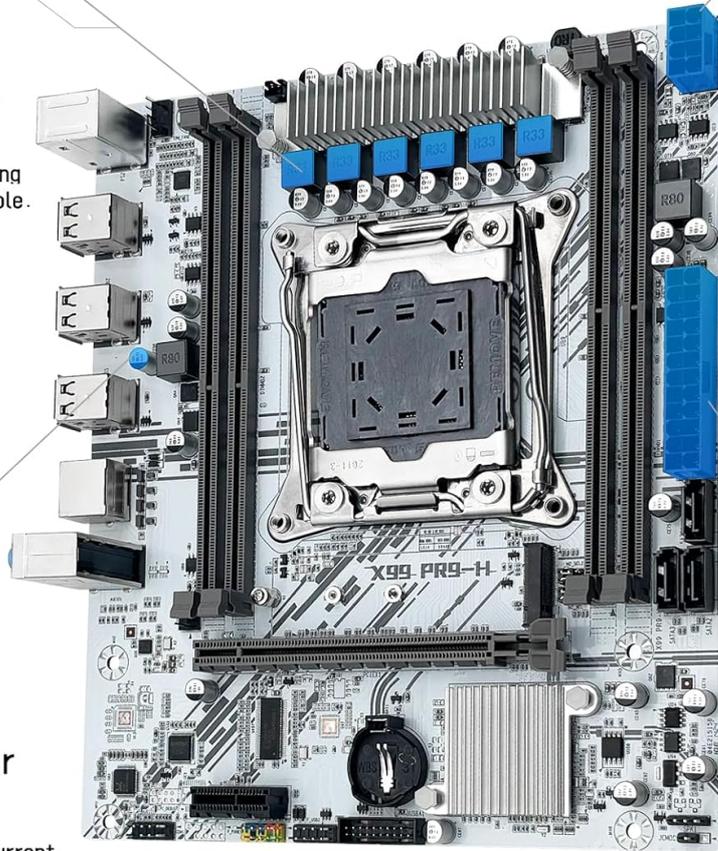Image 2.5: Illustration of the 6-phase power supply design and the 8-pin and 24-pin power interfaces.

2.5. Peripheral Connections

Connect your peripherals to the various I/O ports available on the motherboard. This includes USB devices, PS/2 devices, Ethernet cables, and audio devices. The motherboard also includes SATA 2.0 ports for additional storage drives.
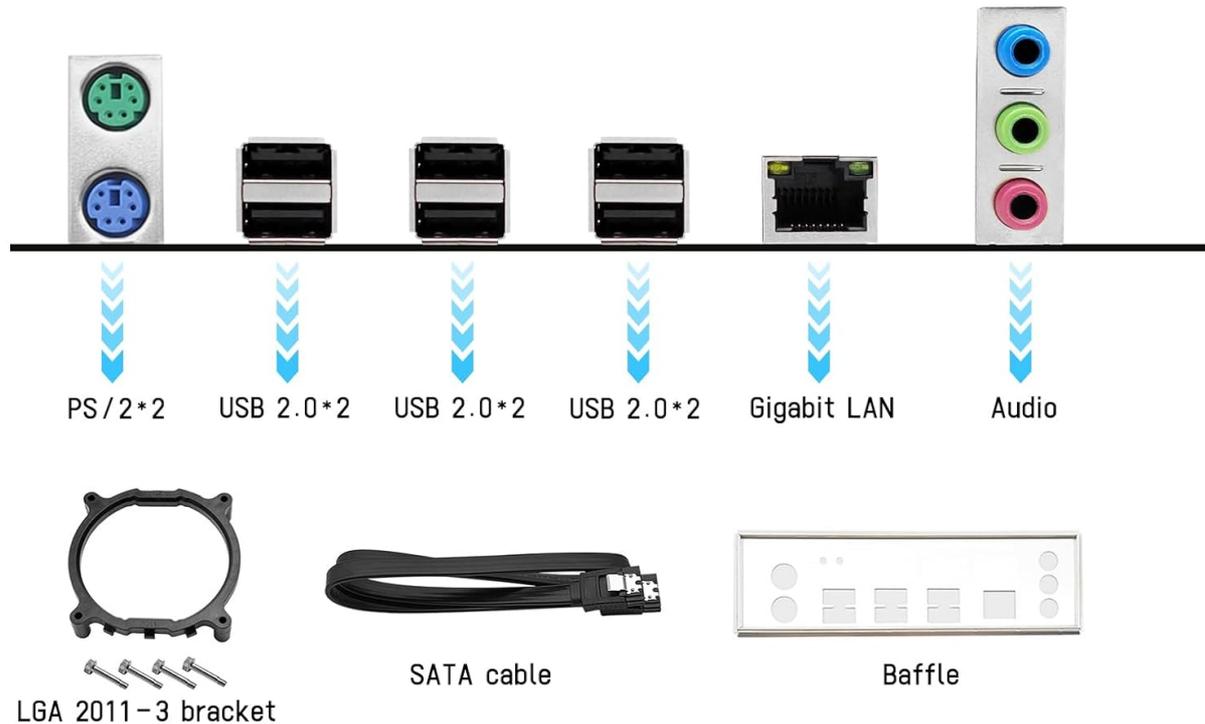
Image 2.6: Overview of the rear I/O panel (PS/2, USB 2.0, Gigabit LAN, Audio) and included accessories (LGA 2011-3 bracket, SATA cable, I/O baffle).

3. OPERATING YOUR MOTHERBOARD

Once all components are installed and connected, you can power on your system. The motherboard is compatible with Windows operating systems. For driver installation, it is recommended to use driver management software like Driver Talent/DriveTheLife or a Windows 10 system, which can assist in resolving driver-related issues.

4. MAINTENANCE

4.1. CMOS Reset

If you encounter boot issues or need to reset BIOS settings to default, you can perform a CMOS reset. This involves reinstalling the CR2032 battery (not included, please purchase separately) and shorting the CMOS clear jumper.

1. Install the CR2032 battery into its slot on the motherboard and ensure the system power is cut off.

2. Locate the CMOS clear jumper (often labeled JCMOS1).

3. Using a metal object (like a screwdriver or tweezers), short the two pins of the CMOS clear jumper for

approximately 5 seconds.

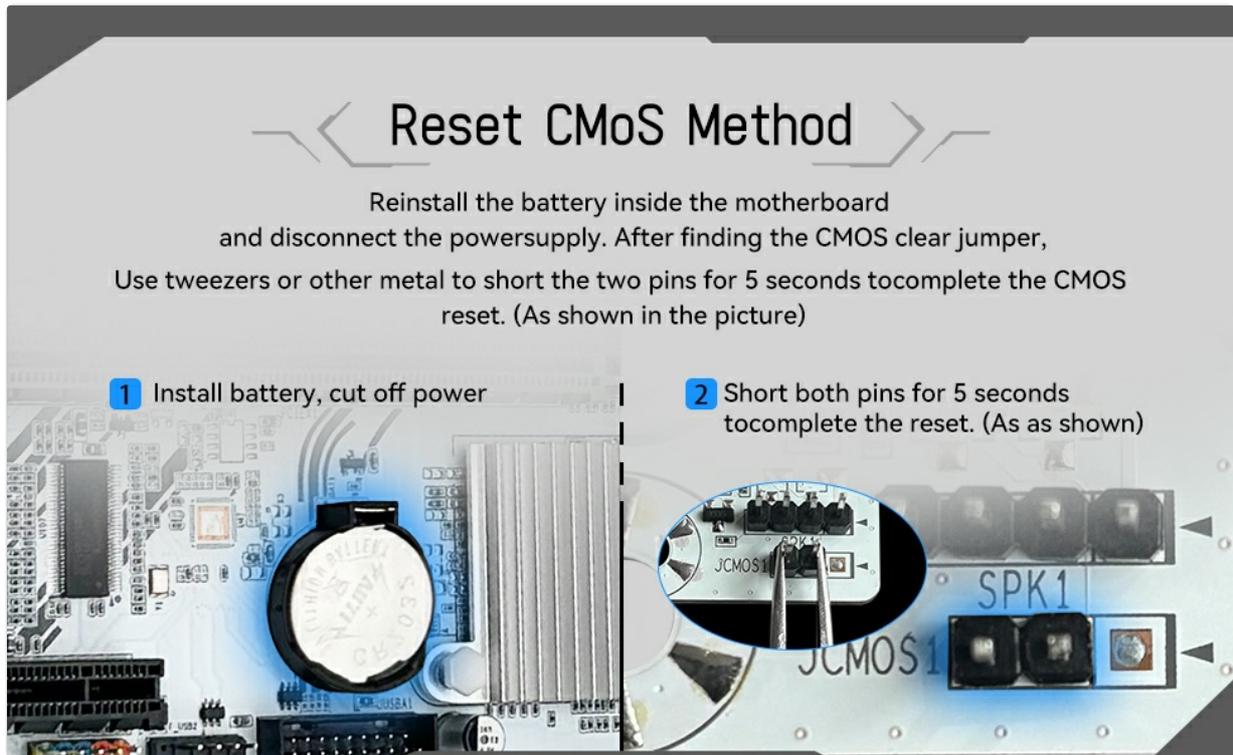4. Remove the metal object. The CMOS has now been reset.

Image 4.1: Visual guide for resetting CMOS by shorting the JCMOS1 pins.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

- **System Does Not Boot / DOA:** If the motherboard is Dead On Arrival (DOA) or fails to boot, please ensure all power connections (24-pin ATX, 8-pin CPU) are securely seated. Verify that the CPU and RAM are correctly installed. If the issue persists, contact SHANGZHAOYUAN support via Amazon for assistance.

- **Driver Issues:** For driver-related problems, it is recommended to use driver update utilities such as Driver Talent or DriveTheLife. Alternatively, installing a fresh Windows 10 operating system can often resolve driver conflicts automatically.

- **Memory Not Detected:** Ensure RAM modules are fully seated in their slots. If using one or two modules, refer to Image 2.3 for correct slot placement (slot 4 for one, slots 1 and 4 for two).

- **No Display Output:** Verify that your graphics card (if dedicated) is properly seated in the PCIe slot and has adequate power. Ensure your monitor cable is securely connected to the graphics card or integrated graphics port.

6. TECHNICAL SPECIFICATIONS

Below are the detailed specifications for the SHANGZHAOYUAN X99 PR9-H Motherboard.

Feature	Specification
Brand	SHANGZHAOYUAN

| Feature	Specification
Model Name	X99 PR9-H
CPU Socket	LGA 2011-3
Compatible Processors	Intel Core i7 processors on LGA 2011-3 Socket, Intel Xeon E5 V3/V4 processors on LGA 2011-3 Socket
Chipset Type	Intel HM55
RAM Memory Technology	DDR4
RAM Slots	4 (Dual Channel)
Memory Clock Speed	2133MHz / 2400MHz
Maximum Memory Capacity	128 GB
PCIe Slots	1x PCIe 3.0 x16, 1x PCIe 2.0 x1
M.2 Slot	1x NVMe/NGFF M.2 (PCIe 3.0 x4 up to 3600MB/s)
SATA Interface	3x SATA 2.0
USB Ports	Rear: 6x USB 2.0, Front: 2x USB 2.0
Network Card	Realtek 8111H Gigabit LAN (1000Mbps)
Sound Card	Realtek ALC897 Audio Codec (2.1 Channel)
Power Connector	24-pin ATX + 8-pin CPU
Power Supply Design	6-phase
Form Factor	Micro ATX (M-ATX)
Dimensions	215mm x 185mm (8.46 x 7.28 inches)
Item Weight	1.65 pounds
Platform	Windows
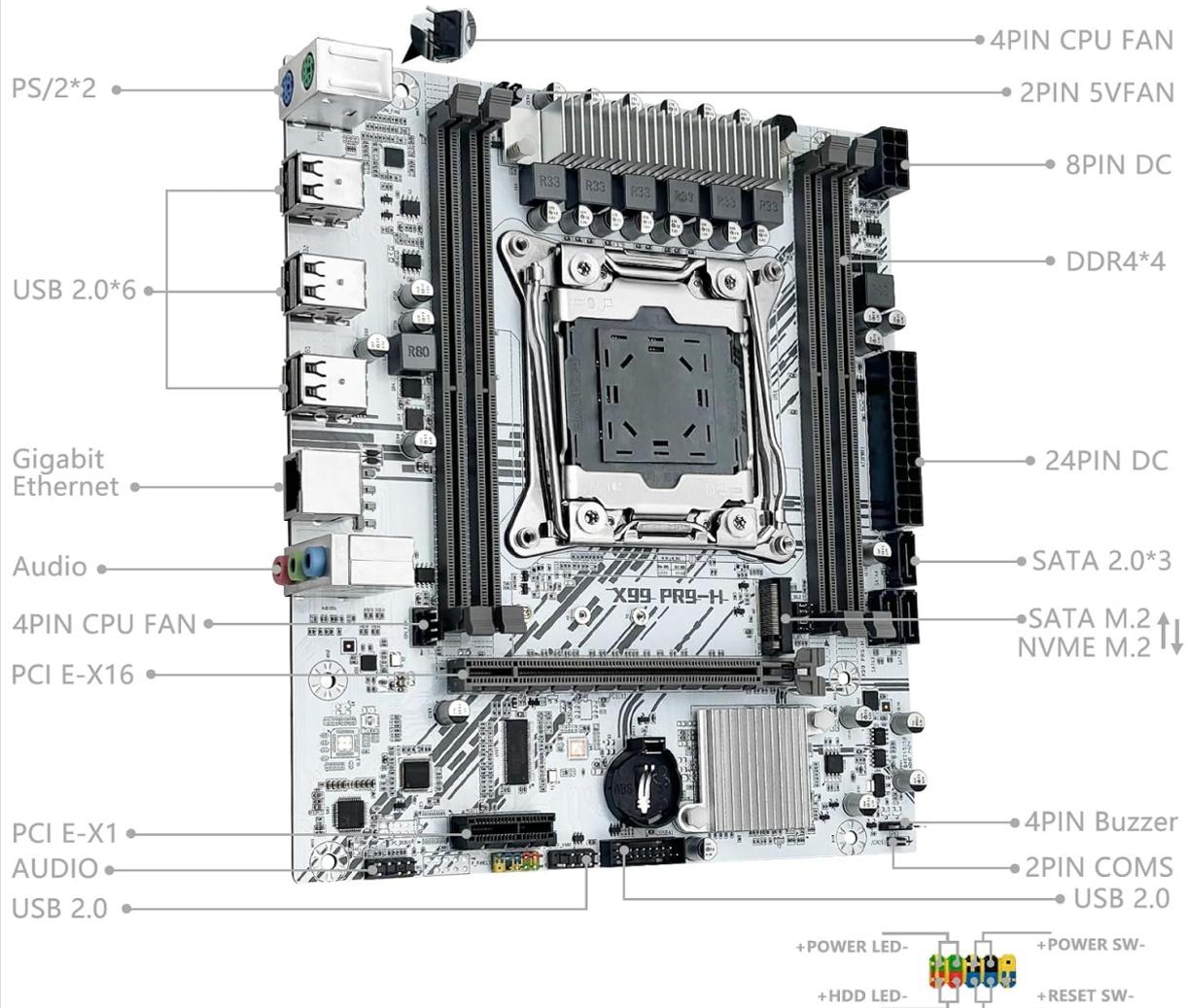
Image 6.1: Detailed diagram of the X99 Motherboard with labeled components and ports.

X99 PR9-H Motherboard Specification

Chipset: Intel HM55 Chipset

CPU Socket: LGA 2011-v3

RAM Slot: 4*DDR4

Memory Capacity: 128GB(32GB*4)

Network card: 1*Gigabit LAN

M.2 Slot: 1*NVME/NGFF M.2

Display Interface: No

Requires Graphics Card: Yes

Sound card: Realtek ALC 897 2.1 channel

PCIe Slot: 1*PCIe 3.0 X16, 1*PCIe 2.0 X1

USB Port: Rear(USB 2.0*6), Front(USB 2.0*2)

Power Connector: 24Pin+8Pin

FAN Interface: 2*4Pin

SATA Interface: 3*SATA 2.0

Power Supply: 6-phase

Size: 215mm*185mm

Image 6.2: Summary of X99 PR9-H Motherboard specifications.

7. WARRANTY AND SUPPORT

For any issues, questions, or warranty claims regarding your SHANGZHAOYUAN X99 Motherboard, please contact SHANGZHAOYUAN customer support directly through the Amazon platform. They can provide assistance with troubleshooting, returns, or replacements if necessary.

Please note that a physical user manual is not included with the product. A digital version of the manual (PDF) can be obtained by contacting the seller on Amazon if needed.

For additional information and product details, you may visit the official SHANGZHAOYUAN Store on Amazon.