

MS-S1561

Generic MS-S1561 Server Motherboard User Manual

Model: MS-S1561 | Brand: Generic

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Generic MS-S1561 Server Motherboard. This motherboard is designed to support Intel Xeon E5-2600 V3 and V4 series processors and DDR4 memory, utilizing the C612 chipset. Please read this manual thoroughly before proceeding with installation to ensure proper setup and functionality.

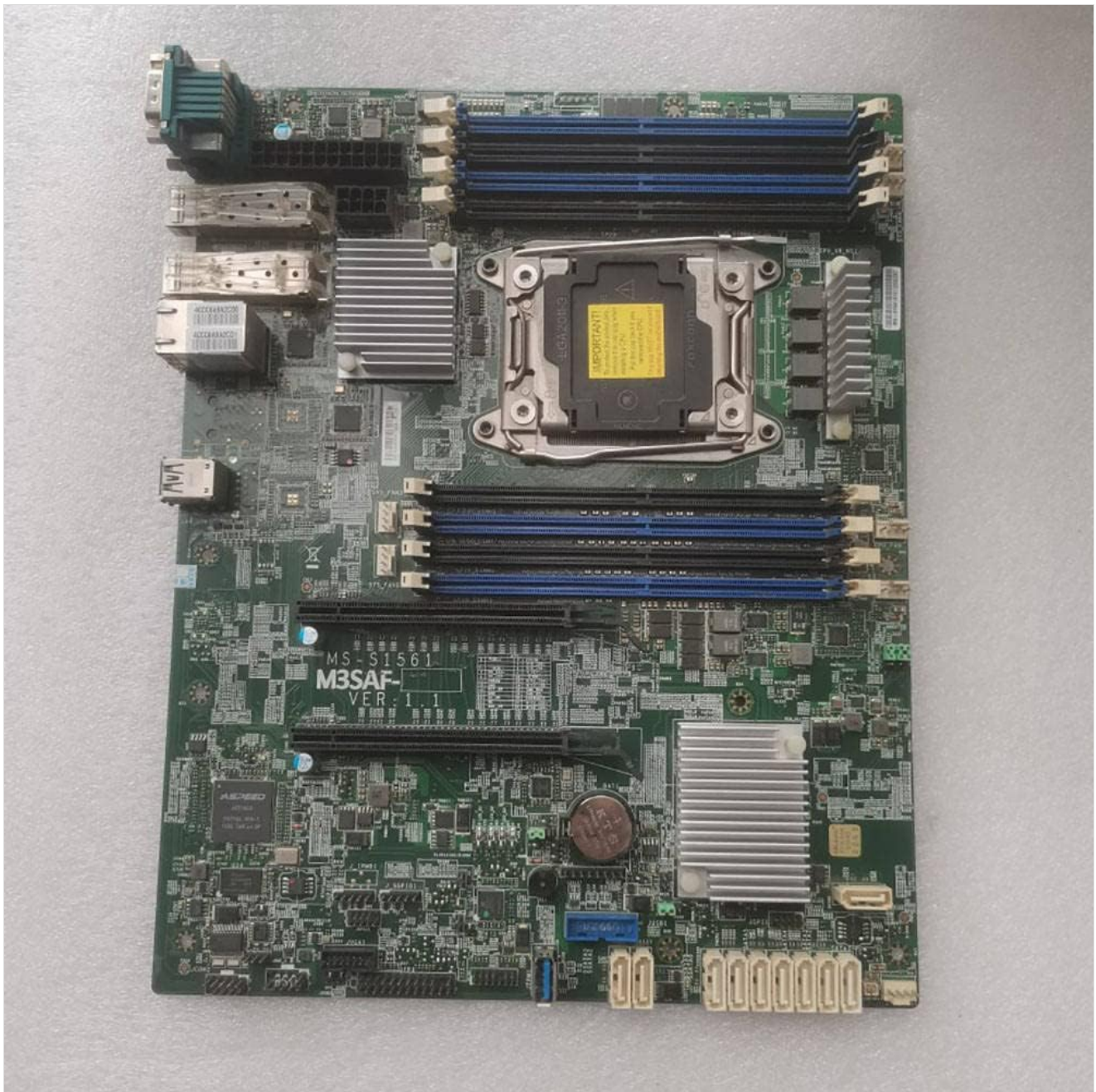


Figure 1: Top-down view of the Generic MS-S1561 Server Motherboard, showing CPU socket, RAM slots, and various connectors.

2. SETUP AND INSTALLATION

Proper installation is crucial for the stable operation of your server system. Follow these steps carefully.

2.1 Component Compatibility

- **Processor:** Intel Xeon E5-2600 V3/V4 series. Ensure the CPU socket type matches your processor.
- **Memory:** DDR4 ECC/Non-ECC UDIMM/RDIMM. Refer to specifications for supported speeds and capacities.
- **Chipset:** Intel C612.

2.2 Motherboard Installation

1. **Prepare the Chassis:** Ensure your server chassis is compatible with the motherboard form factor. Install standoffs in the chassis according to the motherboard's mounting holes.
2. **Install CPU:** Carefully open the CPU socket lever. Align the processor with the socket, ensuring the triangular marks match. Gently place the CPU into the socket without force. Close the lever to secure the CPU.

3. **Install CPU Cooler:** Apply thermal paste (if not pre-applied) and install the CPU cooler according to its manufacturer's instructions. Connect the CPU fan cable to the designated header on the motherboard.
4. **Install Memory:** Open the clips on the DDR4 memory slots. Align the memory modules with the key notch and press firmly until the clips snap into place. Refer to the motherboard's silkscreen for recommended slot population order for optimal performance.
5. **Mount Motherboard:** Carefully place the motherboard into the chassis, aligning the mounting holes with the standoffs. Secure the motherboard with screws.
6. **Connect Power:** Connect the 24-pin ATX main power connector and the 8-pin (or 4-pin) CPU power connector from your power supply unit (PSU) to the motherboard.
7. **Connect Storage Devices:** Connect SATA data cables from your storage drives (HDDs/SSDs) to the SATA ports on the motherboard. Connect the corresponding power cables from the PSU to the drives.
8. **Connect Front Panel Cables:** Connect the power switch, reset switch, HDD LED, power LED, and USB/audio headers from the chassis front panel to the corresponding pins on the motherboard. Refer to the motherboard's silkscreen or a detailed diagram for correct pin assignments.
9. **Install Expansion Cards:** Insert any necessary PCIe expansion cards (e.g., graphics cards, network cards) into the appropriate PCIe slots and secure them with the chassis retention clips or screws.



Figure 2: Rear I/O panel of the Generic MS-S1561 Server Motherboard, showing various ports including USB, LAN, and VGA.

3. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can power on your system.

3.1 Power On

Ensure all power cables are securely connected. Press the power button on your chassis. The system should initiate the Power-On Self-Test (POST) process.

3.2 BIOS/UEFI Access

During the POST sequence, press the designated key (commonly **DEL**, **F2**, or **F10**) to enter the BIOS/UEFI setup utility. Here you can configure boot order, system settings, and monitor hardware status.

3.3 Operating System Installation

Insert your operating system installation media (USB drive or DVD) and configure the boot order in the BIOS/UEFI to boot from the installation media. Follow the on-screen prompts to install your preferred operating system.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and stable performance of your motherboard and server system.

4.1 Dust Removal

Periodically clean dust from the motherboard, CPU cooler, and chassis fans using compressed air. Ensure the system is powered off and unplugged before cleaning. Avoid using brushes or cloths that may generate static electricity.

4.2 BIOS/Firmware Updates

Check the manufacturer's website (if available) for updated BIOS/firmware versions. Updates can improve compatibility, stability, and performance. Follow the specific instructions provided with the update utility carefully.

4.3 Component Checks

Occasionally inspect all cable connections (power, data, front panel) to ensure they are secure. Verify that all fans are spinning correctly and that there are no unusual noises or smells from the system.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

5.1 No Power / No POST (Power-On Self-Test)

- **Check Power Connections:** Ensure the 24-pin ATX and 8-pin CPU power cables are firmly connected to the motherboard and PSU. Verify the PSU is switched on and connected to a working power outlet.
- **Reseat Components:** Power off and unplug the system. Reseat the CPU, RAM modules, and any expansion cards. Ensure they are properly seated in their respective slots.
- **Clear CMOS:** Refer to the motherboard's manual or silkscreen for the CMOS clear jumper or button. Clearing CMOS can resolve boot issues caused by incorrect BIOS settings.
- **Minimum Configuration:** Try booting with only the CPU, one RAM module, and the CPU cooler installed. If it boots, add components one by one to identify the faulty part.

5.2 System Instability / Crashes

- **Check Temperatures:** Monitor CPU and system temperatures using BIOS or software utilities. Overheating can cause instability. Ensure CPU cooler is properly installed and fans are working.
- **Test Memory:** Run a memory diagnostic tool (e.g., MemTest86) to check for faulty RAM modules.
- **Update Drivers:** Ensure all device drivers (chipset, LAN, etc.) are up to date for your operating system.

5.3 Peripheral Not Detected

- **Check Connections:** Verify that the peripheral (e.g., hard drive, USB device, expansion card) is correctly connected to the motherboard.
- **Check BIOS Settings:** Ensure the relevant ports (SATA, USB, PCIe) are enabled in the BIOS/UEFI settings.
- **Install Drivers:** Install the necessary drivers for the peripheral device.

6. SPECIFICATIONS

Key technical specifications for the Generic MS-S1561 Server Motherboard.

Feature	Specification
Model Number	MS-S1561 (Mfr Part Number: LIMER_GBFG__18568)
Compatible Devices	Personal Computer
RAM Memory Technology	DDR4

Feature	Specification
Memory Slots Available	2
S/PDIF Connector Type	Optical
System Bus Standard Supported	SATA 2
ASIN	B0CSK62J8L
Date First Available	January 17, 2024



Figure 3: Angled view of the Generic MS-S1561 Server Motherboard, highlighting various components and expansion slots.

7. WARRANTY AND SUPPORT

As a Generic branded product, warranty and support are typically handled by the seller or distributor from whom the product was purchased. Please refer to your purchase documentation or contact your vendor for specific warranty terms and technical support.

- **Warranty Period:** Varies by seller. Consult your purchase receipt or seller's policy.
- **Technical Support:** Contact the seller (e.g., MinParts on Amazon) for assistance with product-specific issues.
- **Online Resources:** While specific manufacturer support for 'Generic' products may be limited, general troubleshooting guides for server motherboards and Intel C612 chipsets can be found online.