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GIGABYTE C246-WU4

GIGABYTE C246-WU4 Server Motherboard Instruction Manual

Model: C246-WU4

1. SETUP AND INSTALLATION

This section provides instructions for the initial setup and installation of your GIGABYTE C246-WU4 Server Motherboard.

1.1 Motherboard Overview

Familiarize yourself with the layout of your motherboard before beginning installation.



Image 1: Top-down view of the GIGABYTE C246-WU4 motherboard. This image displays the LGA 1151 CPU socket, four DDR4 DIMM slots, multiple PCIe x16 slots, M.2 slots with heatsinks, SATA ports, and various headers.

1.2 CPU Installation

Carefully align your Intel 1151 Xeon E or 9th/8th Gen Intel Core/Pentium/Celeron processor with the LGA 1151 socket. Ensure the notches on the CPU align with the keys on the socket. Gently lower the CPU into place and secure the retention arm.

1.3 Memory (RAM) Installation

The motherboard supports DDR4 ECC & non-ECC Un-buffered memory. Insert DDR4 memory modules into the DIMM slots, ensuring they are properly seated until the clips on both sides lock into place. Refer to the motherboard's user guide for recommended memory configurations.

1.4 M.2 SSD Installation

The GIGABYTE C246-WU4 features dual M.2 slots. To install an M.2 SSD, first remove the M.2 heatsink by unscrewing it. Insert the M.2 SSD into the slot at an angle, then gently push it down and secure it with the provided M.2 screw. Reattach the heatsink to ensure optimal thermal performance.



Image 2: Angled view of the GIGABYTE C246-WU4 motherboard. This image provides a closer look at the M.2 slots, which are covered by heatsinks for improved cooling of M.2 SSDs.

1.5 SATA Device Connection

The motherboard provides 10 SATA3 ports for large storage capacity. Connect your SATA hard drives or SSDs to these ports using SATA data cables. Ensure proper power connections from your power supply to the drives.

1.6 Power Connections

Connect the 24-pin ATX main power connector and the 8-pin EPS CPU power connectors from your power supply to the corresponding sockets on the motherboard. Ensure all connections are firm.

2. OPERATING INSTRUCTIONS

This section covers basic operation and initial configuration of your motherboard.

2.1 BIOS/UEFI Setup

Upon first boot, enter the BIOS/UEFI setup utility (typically by pressing DEL or F2 during startup) to configure system settings, boot order, and enable features like Intel Optane Memory. Ensure your BIOS is updated to the latest version for optimal compatibility and performance. Updates can be downloaded from the GIGABYTE official website.

2.2 Driver Installation

After installing your operating system, install all necessary drivers for the motherboard's components, including chipset, LAN, audio, and any integrated graphics. Always download the latest drivers directly from the GIGABYTE support website for your specific model to ensure stability and access to the newest features.

2.3 Network Configuration

The motherboard features Dual Intel Server GbE LAN. Connect your Ethernet cables to the LAN ports. Configure network settings within your operating system as required for your network environment.

3. MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Keep your BIOS updated. Check the GIGABYTE website regularly for new BIOS versions that may offer improved stability, compatibility, or new features.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent obstruction of airflow and accidental disconnections.

4. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

4.1 Diagnostic LED

The motherboard features a diagnostic LED display (often labeled 'POST Code Display') that shows alphanumeric codes during startup. These codes can help identify the source of a boot failure. Refer to the motherboard's user manual for a list of POST codes and their meanings.

4.2 System Not Booting

- Check all power connections (24-pin ATX, 8-pin EPS).
- Reseat RAM modules. Try booting with only one RAM module installed.
- Ensure the CPU is correctly seated and the cooler is properly installed.
- Clear CMOS settings (refer to your user manual for the specific jumper or button location).

4.3 Peripheral Issues

- Ensure all USB devices, SATA drives, and other peripherals are correctly connected.
- Install or update the latest drivers for all peripherals and motherboard components.

5. SPECIFICATIONS

Feature	Detail
Processor Support	Intel 1151 Xeon E processors and 9th/8th Gen. Intel Core/Pentium/Celeron processors
Chipset	Intel C246 Express Chipset
Memory Support	DDR4 ECC & non-ECC Un-buffered Memory
PCIe Slots	4 PCIe x16 slots (for multi-card support, AMD Quad-GPU Crossfire and 4-way AMD Crossfire technologies)
LAN	Dual Intel Server GbE LAN with Intel vPro Technology
Storage	10 SATA3 Ports, Dual M.2 support, Intel Optane Memory Ready
USB	USB 3.1 Type-A and Type-C connections, USB 2.0 Ports
Audio	ALC1220 120Db SNR HD Audio with Smart Headphone AMP and WIMA audio capacitors
Form Factor	ATX (30.5cm x 24.4cm)

6. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official GIGABYTE website. Technical support, driver downloads, and further documentation can be found on the GIGABYTE support page.

Online Resources:

- [GIGABYTE Official Website](#)
- [GIGABYTE Support Page](#)