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› [Intel](#) /

› [Intel Xeon W-2235 Processor User Manual](#)

Intel SRGVA

Intel Xeon W-2235 Processor User Manual

Model: SRGVA

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Intel Xeon W-2235 Hexa-core processor. Please read these instructions carefully before proceeding with installation to ensure optimal performance and system stability. The Intel Xeon W-2235 is designed for professional workstations, offering robust performance for demanding applications.

SETUP AND INSTALLATION

Before You Begin

- Ensure your motherboard is compatible with the LGA 2066 socket and supports Intel Xeon W-series processors.
- Acquire a suitable CPU cooling solution (heatsink and fan or liquid cooler) and thermal paste.
- Power off and unplug your computer system.
- Take anti-static precautions (e.g., use an anti-static wrist strap) to prevent damage to components.

Installation Steps

1. **Prepare the Motherboard:** Locate the CPU socket on your motherboard. Open the socket retention lever and lift the load plate.
2. **Install the Processor:** Carefully remove the Intel Xeon W-2235 processor from its packaging. Align the triangular marker on the processor with the corresponding marker on the CPU socket. Gently place the processor into the socket without forcing it.
3. **Secure the Processor:** Lower the load plate and then push down the retention lever until it clicks into place, securing the processor.
4. **Apply Thermal Paste:** Apply a small amount of thermal paste (typically a pea-sized dot) to the center of the processor's integrated heat spreader (IHS).
5. **Install CPU Cooler:** Mount your chosen CPU cooling solution according to its manufacturer's instructions. Ensure it makes firm, even contact with the processor's IHS. Connect the cooler's fan

cable to the designated CPU fan header on the motherboard.



This image displays the top surface of an Intel Xeon W-2235 processor, featuring the 'Intel' logo prominently at the top and 'XEON inside' below it. The processor has a metallic silver heat spreader with a blue circuit board pattern visible around its edges.

OPERATION

System Requirements

- Compatible motherboard with LGA 2066 socket.
- DDR4 ECC or non-ECC memory, as supported by your motherboard.
- Operating system compatible with Intel Xeon processors (e.g., Windows Server, Linux distributions, Windows 10/11 Pro for Workstations).

Initial Boot-up

After installation, connect all necessary peripherals and power cables. Power on your system. Access the BIOS/UEFI settings to verify that the processor is recognized correctly and to configure any necessary settings, such as memory profiles or fan curves. Install your operating system and all relevant drivers, including chipset drivers.

Performance Considerations

The Intel Xeon W-2235 features 6 cores and 12 threads, with a base clock speed of 3.80 GHz and a max turbo frequency of 4.60 GHz. This configuration is optimized for multi-threaded workloads and demanding applications. Ensure your system's power supply meets the requirements for all components, including the CPU and any discrete graphics cards.

MAINTENANCE

Cooling System

Regularly inspect and clean your CPU cooling solution to prevent dust buildup, which can impede airflow and lead to overheating. Ensure fans are operating correctly and that the heatsink fins are clear of obstructions. Overheating can lead to performance throttling and system instability.

Software Updates

Keep your system's BIOS/UEFI firmware and chipset drivers updated to the latest versions provided by your motherboard manufacturer. These updates often include performance enhancements, stability improvements, and security patches for your processor.

TROUBLESHOOTING

- System Not Booting:** Verify all power connections, ensure the CPU is seated correctly, and check RAM modules. Consult your motherboard manual for diagnostic LED codes or beep patterns.
- Overheating:** Check CPU cooler installation, thermal paste application, and fan operation. Ensure adequate case airflow. Monitor CPU temperatures using system monitoring software.
- Performance Issues:** Confirm that all drivers are installed and up to date. Check background processes and ensure your operating system is optimized for performance. Verify that the CPU cooler is properly installed and temperatures are within normal operating limits.
- System Instability/Crashes:** This can be caused by various factors. Re-check CPU and RAM seating. Run memory diagnostic tools. Ensure your power supply is sufficient and stable.

TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Intel
Model Number	SRGVA (W-2235)
CPU Manufacturer	Intel
CPU Series	Xeon W
Cores / Threads	6 Cores / 12 Threads
Base Clock Speed	3.80 GHz
Max Turbo Frequency	4.60 GHz
CPU Socket	LGA 2066
Cache	8.25 MB Intel Smart Cache
Product Dimensions	4.57 x 3.98 x 1.73 inches
Item Weight	0.035 ounces

WARRANTY AND SUPPORT

Intel processors are covered by a limited warranty. For specific warranty terms and conditions, please refer to the documentation included with your processor or visit the official Intel website. For technical assistance, driver downloads, and further support resources, please visit the [Intel Support Website](#). When contacting support, have your processor's model number (W-2235) and serial number readily available.