

Generic BX80634E52407V2

Intel Xeon E5-2407 v2 Processor User Manual

Model: BX80634E52407V2

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Intel Xeon E5-2407 v2 Octa-core Processor. Designed for server and workstation environments, this processor delivers reliable performance for demanding applications. Please read this manual thoroughly before proceeding with installation.

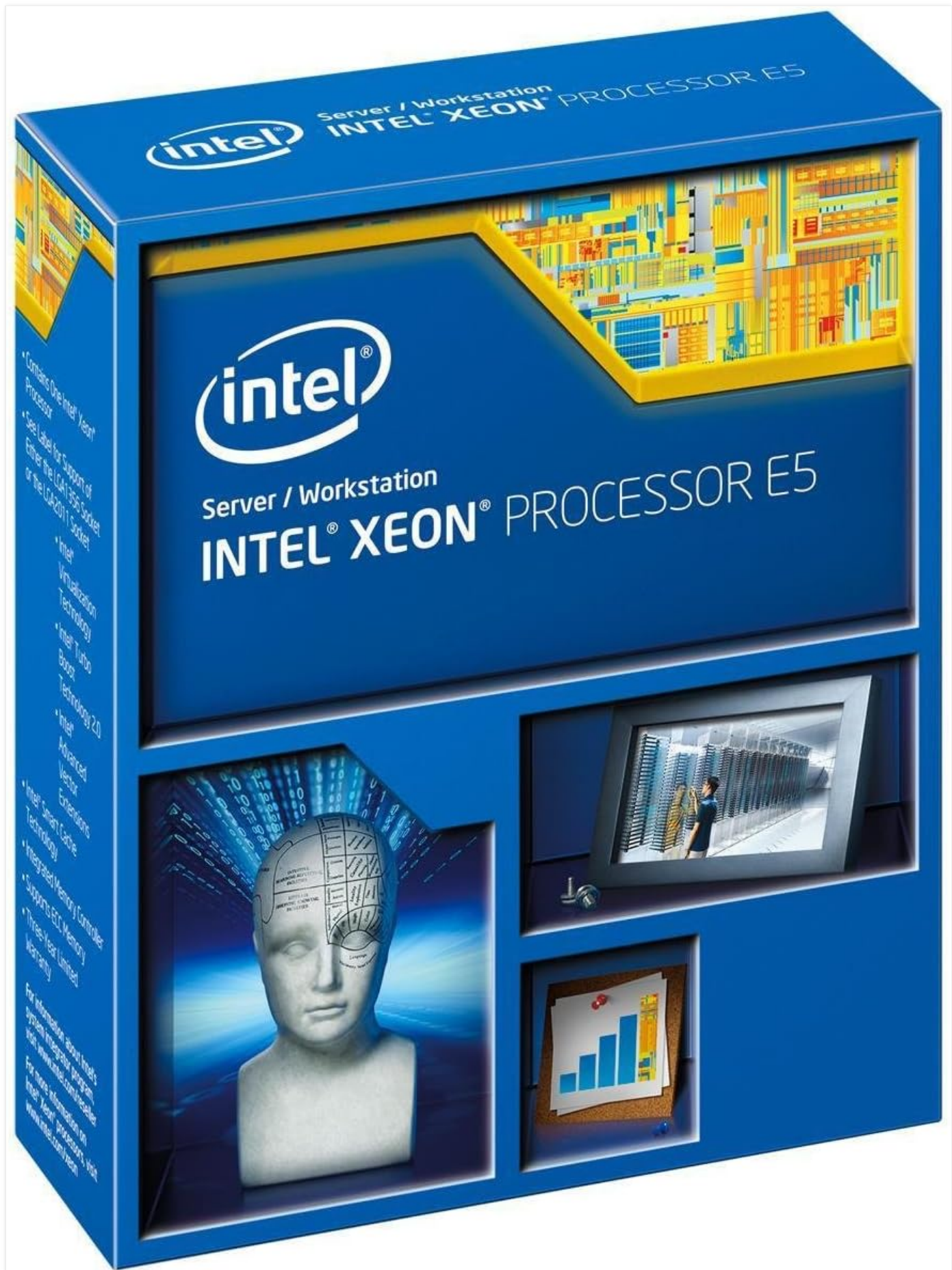


Figure 1.1: Retail packaging of the Intel Xeon E5-2407 v2 Processor, highlighting its server/workstation designation and Intel Xeon E5 branding.

2. SPECIFICATIONS

The following table details the key technical specifications of the Intel Xeon E5-2407 v2 processor:

Feature	Specification
Product Name	Intel Xeon E5-2407 v2
Cores	8 (Octa-core)
Base Clock Speed	2.40 GHz
CPU Socket	FCLGA1356
Secondary Cache	10 MB
Thermal Design Power (TDP)	80 Watts
Supported Memory	DDR3 up to 1333 MHz
Product Dimensions (L x W x H)	2.13 x 1.73 x 0.28 inches
Item Weight	3.68 ounces
Model Number	BX80634E52407V2
Manufacturer	Intel Corp.

3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your processor. Always handle the processor by its edges to avoid touching the gold contacts or the top surface.

3.1 Pre-Installation Checklist

- Ensure your motherboard supports the LGA1356 socket and the Intel Xeon E5-2407 v2 processor. Refer to your motherboard's manual for compatibility.
- Gather necessary tools: thermal paste, clean lint-free cloth, screwdriver (if needed for cooler mounting).
- Work in a clean, static-free environment. Use an anti-static wrist strap.

3.2 Installation Steps

1. **Prepare the Motherboard:** Open the CPU socket retention lever on your motherboard. Carefully lift the load plate.
2. **Insert the Processor:** Align the triangular mark on the processor with the corresponding mark on the CPU socket. Gently place the processor into the socket. Do not force it; it should sit without resistance.
3. **Secure the Processor:** Lower the load plate back into position and close the retention lever until it clicks securely.
4. **Apply Thermal Paste:** Apply a small amount (pea-sized dot) of high-quality thermal paste to the center of the processor's integrated heat spreader (IHS).
5. **Install CPU Cooler:** Mount your compatible CPU cooler according to its manufacturer's instructions. Ensure even pressure is applied for proper thermal transfer.
6. **Connect Cooler Fan:** Connect the CPU cooler fan cable to the designated CPU_FAN header on your motherboard.

After installation, proceed with assembling the rest of your system components and connecting power.

4. OPERATING GUIDELINES

The Intel Xeon E5-2407 v2 processor is designed for continuous operation in server and workstation environments. Once installed and the system is powered on, the processor will automatically be detected and configured by the system's BIOS/UEFI and operating system.

- **BIOS/UEFI Configuration:** Ensure your system's BIOS/UEFI is updated to the latest version to ensure full compatibility and optimal performance. Check for any specific CPU-related settings that may need adjustment (e.g., virtualization technology, power management).
- **Operating System:** Install a compatible server or workstation operating system (e.g., Windows Server, Linux distributions, VMware ESXi). Ensure all necessary drivers are installed.
- **Workload Management:** For optimal performance, ensure your applications and workloads are designed to utilize multi-core processors effectively.

5. MAINTENANCE

While processors generally require minimal maintenance, ensuring proper environmental conditions and cooling can significantly extend their lifespan and maintain performance.

- **Cooling System:** Regularly inspect and clean your CPU cooler and case fans to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air to remove dust.
- **Thermal Paste:** If you notice consistently high temperatures or are reinstalling the CPU cooler, consider reapplying fresh thermal paste.
- **Environmental Control:** Operate the system in a well-ventilated area with stable room temperature. Avoid extreme temperatures or humidity.
- **Software Updates:** Keep your operating system and motherboard drivers updated to benefit from performance optimizations and bug fixes.

6. TROUBLESHOOTING

If you encounter issues with your Intel Xeon E5-2407 v2 processor, consider the following common troubleshooting steps:

- **System Not Booting / No Display:**
 - Verify that the CPU is correctly seated in its socket and the retention lever is fully closed.
 - Ensure the CPU power connector from the power supply is securely plugged into the motherboard.
 - Check RAM modules for proper seating.
 - Reset CMOS/BIOS settings on the motherboard.
- **Overheating Issues:**
 - Confirm the CPU cooler is properly installed and making good contact with the processor's IHS.
 - Check if the CPU cooler fan is spinning and connected to the correct header.
 - Ensure thermal paste was applied correctly and is not dried out.
 - Improve case airflow by managing cables and adding/rearranging case fans.
- **System Instability / Crashes:**
 - Update motherboard BIOS/UEFI to the latest version.
 - Run diagnostic tools to check memory (RAM) for errors.

- Ensure power supply is adequate for all system components.
- Check for conflicting drivers or software.

If problems persist after following these steps, consult Intel's official support resources or a qualified technician.

7. WARRANTY AND SUPPORT

The Intel Xeon E5-2407 v2 processor typically comes with a **Three-Year Limited Warranty** from the manufacturer.

Please retain your proof of purchase for warranty claims.

For technical support, driver downloads, and additional product information, please visit the official Intel support website:

[Intel Support Website](#)

You may also contact your system integrator or reseller for assistance.



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