Intel E5-2650L v2

Intel Xeon E5-2650L v2 Processor Instruction Manual

Model: E5-2650L v2 (SR19Y-cr)

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Intel Xeon E5-2650L v2 Ten-Core 1.7GHz 25MB Cache Processor. This product is a certified refurbished unit, tested and certified to function like new. Please read these instructions carefully before proceeding with installation.

Figure 1: Intel Xeon E5-2650L v2 Processor. This image displays a close-up view of the processor, highlighting its metallic heat spreader and the pin array on the underside, essential for connection to the motherboard socket.

SETUP AND INSTALLATION

Installing a processor requires careful handling and adherence to specific procedures. It is recommended that installation be performed by a qualified technician. Ensure your motherboard supports the LGA 2011 socket and the Intel Xeon E5-2600 v2 series processors.

1. **Preparation:** Before beginning, ensure your system is powered off and disconnected from the power source. Discharge any static electricity by touching a grounded metal object.

2. **Open CPU Socket:** Locate the CPU socket on your motherboard. Carefully open the socket retention mechanism according to your motherboard's instructions.

3. **Insert Processor:** Align the triangular or gold arrow indicator on the processor with the corresponding mark on the CPU socket. Gently place the processor into the socket without forcing it. The processor should sit flush in the socket.

4. **Secure Processor:** Close the socket retention mechanism to secure the processor in place.

5. **Apply Thermal Paste:** Apply a small amount of high-quality thermal paste to the center of the processor's heat spreader.

6. **Install CPU Cooler:** Mount the CPU cooler according to its manufacturer's instructions, ensuring even pressure and proper contact with the processor. Connect the CPU cooler fan to the designated header on the motherboard.

Refer to your motherboard's user manual for detailed, model-specific installation instructions.

OPERATING THE PROCESSOR

Once correctly installed, the Intel Xeon E5-2650L v2 processor operates automatically as the central processing unit of your computer system. It manages and executes instructions, performing calculations and data processing tasks. Key operational characteristics include:

- **Ten-Core Architecture:** Provides robust multi-tasking capabilities and efficient handling of demanding applications.
- **1.7GHz Base Clock Speed:** Ensures reliable performance for various workloads.
- **25MB Smart Cache:** Enhances data access speed and overall system responsiveness.
- **Automatic Frequency Scaling:** The processor dynamically adjusts its clock speed based on workload to optimize performance and power consumption.

Ensure your operating system and applications are optimized to utilize multi-core processors for optimal performance.

MAINTENANCE

Proper maintenance helps ensure the longevity and stable performance of your processor. The processor itself requires no direct maintenance, but its operating environment and cooling system do.

- **Cooling System:** Regularly inspect and clean your CPU cooler and case fans to prevent dust buildup. Dust can impede airflow and lead to overheating.
- **Thermal Paste:** Over time, thermal paste can dry out. If you observe higher-than-normal temperatures, consider reapplying thermal paste. This typically involves removing the CPU cooler, cleaning old paste, and applying new paste.
- **Environmental Conditions:** Operate your system in a well-ventilated area, away from direct sunlight and excessive heat sources. Maintain a stable room temperature and avoid high humidity.
- **Software Updates:** Keep your operating system, drivers (especially chipset drivers), and BIOS/UEFI firmware updated to ensure optimal compatibility and performance.

TROUBLESHOOTING

If you encounter issues with your processor, consider the following troubleshooting steps:

- **System Not Booting:**
  - Verify the processor is correctly seated in the socket and the retention mechanism is locked.

- Ensure the CPU power connector from the power supply is securely connected to the motherboard.
- Check for any bent pins on the processor or in the motherboard socket (if applicable).
- Consult your motherboard manual for POST (Power-On Self-Test) error codes or diagnostic LEDs.

- **Overheating:**
  - Confirm the CPU cooler is properly installed and making good contact with the processor.
  - Check if the CPU cooler fan is spinning.
  - Ensure thermal paste was applied correctly.
  - Clean any dust from the CPU cooler heatsink and case fans.

- **System Instability/Crashes:**
  - Ensure your motherboard BIOS/UEFI firmware is up to date.
  - Verify that your power supply unit (PSU) provides sufficient and stable power to all components.
  - Run diagnostic tools to check memory (RAM) integrity.

If issues persist, contact the seller or a qualified technician for further assistance.

SPECIFICATIONS

Feature	Detail
Processor Model	Intel Xeon E5-2650L v2
Cores	10 (Ten-Core)
Base Clock Speed	1.7 GHz
Cache	25 MB Smart Cache
Socket Type	LGA 2011
Brand	Intel
Item Model Number	SR19Y-cr
Product Dimensions	6 x 6 x 3 inches
Manufacturer	Intel

WARRANTY AND SUPPORT

This Intel Xeon E5-2650L v2 processor is a Certified Refurbished product. Certified Refurbished products are tested and certified to look and work like new. The refurbishing process includes functionality testing, basic cleaning, inspection, and repackaging. The product ships with all relevant accessories and a minimum 90-day warranty from the seller.
Additionally, this specific unit includes a **1 Year Comprehensive Warranty** provided by Aventis Essentials.
For technical support or warranty claims, please contact the seller from whom you purchased the product. Keep your purchase receipt or order details readily available.