

Genuine Original 100-000000141

Genuine Original EPYC 7F72 Processor Instruction Manual

Model: 100-000000141

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Genuine Original EPYC 7F72 Processor. This high-performance server processor is designed for demanding computing environments, offering 24 cores, a 3.2GHz base clock speed, and a large 192MB cache. Please read this manual thoroughly before proceeding with installation to ensure optimal performance and system stability.

2. SAFETY INFORMATION

Always observe the following safety precautions when handling and installing the processor:

- **Electrostatic Discharge (ESD) Precautions:** Processors are sensitive to ESD. Always wear an anti-static wrist strap and work on an anti-static mat. Avoid touching the gold contacts or pins on the processor.
- **Power Off:** Ensure the system is completely powered off and disconnected from the power source before installing or removing any components.
- **Handle with Care:** The processor pins/contacts are delicate. Handle the processor by its edges only.
- **Ventilation:** Ensure adequate ventilation in the system chassis to prevent overheating.
- **Professional Installation:** If you are unsure about any step, consult a qualified technician.

3. PACKAGE CONTENTS

Verify that all items are present in your processor package:

- Genuine Original EPYC 7F72 Processor (Model: 100-000000141)
- Instruction Manual (this document)
- Warranty Information

Note: A CPU cooler is typically sold separately and is required for operation.

4. SETUP AND INSTALLATION

Follow these steps carefully to install your EPYC 7F72 processor:

1. Prepare the Motherboard:

- Ensure your motherboard supports the SP3 socket and the EPYC 7F72 processor. Refer to your motherboard's manual for compatibility.
- Open the CPU socket retention mechanism on the motherboard. For SP3 sockets, this typically involves releasing a lever or screws.

2. Install the Processor:

- Carefully align the processor with the socket. The processor has specific notches or indicators that must match the socket. Do not force the processor into the socket.
- Gently lower the processor into the socket. It should sit flush without resistance.
- Close the socket retention mechanism to secure the processor.

3. Apply Thermal Paste:

- Apply a small amount of high-quality thermal paste to the center of the processor's integrated heat spreader (IHS). Follow the thermal paste manufacturer's instructions for application.

4. Install the CPU Cooler:

- Mount the compatible SP3 CPU cooler according to its manufacturer's instructions. Ensure even pressure is applied to the processor.
- Connect the CPU cooler's fan cable to the designated CPU_FAN header on the motherboard.

5. Connect Power:

- Connect the 8-pin (or 4+4 pin) EPS 12V power connector from your power supply to the motherboard's CPU power header.

5. OPERATING INSTRUCTIONS

After successful installation, follow these steps for initial system operation:

1. Initial Boot-Up:

- Connect all necessary peripherals (monitor, keyboard, mouse).
- Connect the system to a power source and power it on.
- Observe the POST (Power-On Self-Test) sequence.

2. BIOS/UEFI Configuration:

- Access the system's BIOS/UEFI setup (usually by pressing DEL or F2 during boot).
- Verify that the processor is correctly detected and that memory settings are appropriate.
- Load optimized defaults if necessary, then save and exit.

3. Operating System Installation:

- Install your preferred server operating system. Ensure you have the latest drivers for your motherboard and chipset.

4. Monitoring:

- Utilize system monitoring software to keep track of CPU temperature, clock speeds, and utilization to ensure stable operation.

6. MAINTENANCE

Proper maintenance helps prolong the life and performance of your processor:

- **Dust Removal:** Regularly clean dust from the CPU cooler and system fans using compressed air. Ensure the system is powered off before cleaning.
- **Thermal Paste:** Over time, thermal paste can degrade. If CPU temperatures rise significantly, consider reapplying thermal paste. This requires removing the CPU cooler.
- **BIOS/UEFI Updates:** Keep your motherboard's BIOS/UEFI firmware updated to ensure compatibility, stability, and access to the latest features and performance optimizations for your processor.
- **Software Updates:** Ensure your operating system and drivers are up to date.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Power/No Boot:**
 - Check all power connections, especially the 8-pin EPS 12V CPU power connector.
 - Ensure the CPU is correctly seated in its socket.
 - Verify RAM modules are properly installed.
- **Overheating:**
 - Ensure the CPU cooler is properly installed and making good contact with the CPU.
 - Check that the CPU fan is spinning.
 - Verify thermal paste application.
 - Ensure adequate airflow within the chassis.
- **System Instability/Crashes:**
 - Update motherboard BIOS/UEFI to the latest version.
 - Check for driver conflicts or outdated drivers.
 - Run memory diagnostic tools to rule out RAM issues.
- **Performance Issues:**
 - Ensure the CPU is not throttling due to high temperatures.
 - Verify power settings in the operating system and BIOS/UEFI are set for high performance.

8. SPECIFICATIONS

Feature	Detail
Model Number	100-000000141
Processor Cores	24 Cores
Base Clock Speed	3.2 GHz

Cache	192 MB
Thermal Design Power (TDP)	240 W
Socket Type	SP3
Brand	Genuine Original

9. WARRANTY AND SUPPORT

Your Genuine Original EPYC 7F72 Processor is covered by a manufacturer's warranty. Please refer to the warranty information included in your package for specific terms and conditions, including warranty duration and claim procedures. For technical support, driver downloads, or further assistance, please visit the official Genuine Original support website or contact their customer service department.

Note: Warranty terms may vary by region and retailer. Keep your proof of purchase for warranty claims.