

AMD 7513

AMD EPYC™ 7513 Processor User Manual

Model: 7513

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your AMD EPYC™ 7513 processor. The AMD EPYC™ 7513 is a high-performance CPU designed for demanding applications such as app development/testing, content management, and general-purpose server workloads. It features 32 cores and 64 processing threads, a 128MB L3 cache, and is based on the AMD "Zen 3" architecture, offering a max boost frequency of 3.65 GHz and DDR4 support for the state-of-the-art Socket SP3 platform with PCIe 4.0 support.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your processor. Please follow these steps carefully.

2.1 System Requirements

- **Compatible Motherboard:** Requires a motherboard with an AMD Socket SP3.
- **Memory:** Supports DDR4 RAM. Refer to your motherboard's QVL (Qualified Vendor List) for compatible memory modules.
- **Power Supply:** Ensure your power supply unit (PSU) meets the power requirements of your entire system, including the CPU.
- **Cooling Solution:** A robust cooling solution (heatsink and fan or liquid cooler) designed for high-performance server CPUs is mandatory.

2.2 Physical Installation

1. **Prepare the Motherboard:** Ensure the motherboard is securely mounted in the chassis and the CPU socket lever is open.
2. **Unpack the Processor:** Carefully remove the AMD EPYC™ 7513 processor from its packaging, holding it by the edges to avoid touching the contact pins or the integrated heat spreader (IHS).
3. **Align the Processor:** Align the triangular marker on the processor with the corresponding marker on the CPU socket. Gently lower the processor into the socket. Do not force it.
4. **Secure the Processor:** Once the processor is seated correctly, close the CPU socket lever to secure it in place.
5. **Apply Thermal Paste:** Apply a small amount of high-quality thermal paste to the center of the processor's IHS. Refer to the thermal paste manufacturer's instructions for the recommended application method.

6. **Install Cooling Solution:** Mount your chosen cooling solution (heatsink/fan or liquid cooler) according to its manufacturer's instructions. Ensure proper contact with the CPU's IHS for effective heat dissipation.
7. **Connect Power:** Connect the necessary power cables from your PSU to the motherboard and CPU.



Image: AMD EPYC™ 7513 Processor. This image displays the top view of the processor, highlighting the metallic integrated heat spreader (IHS) with the AMD logo, surrounded by the green printed circuit board (PCB) and the gold contact pads along the edges. This is the component that will be installed into the motherboard's CPU socket.

3. OPERATING INSTRUCTIONS

Once the processor is physically installed, proceed with system setup and initial operation.

3.1 Initial Boot and BIOS/UEFI Setup

1. **Power On:** Connect your display, keyboard, and mouse, then power on the system.
2. **Access BIOS/UEFI:** During startup, press the designated key (commonly Del, F2, F10, or F12) to enter the BIOS/UEFI setup utility.
3. **Verify CPU Recognition:** In the BIOS/UEFI, verify that the AMD EPYC™ 7513 processor is correctly recognized.

4. **Load Optimized Defaults:** It is recommended to load optimized or default settings to ensure system stability.
5. **Configure Boot Order:** Set the boot order to prioritize your operating system installation media (USB drive or DVD).
6. **Save and Exit:** Save your changes and exit the BIOS/UEFI. The system will restart.

3.2 Operating System and Driver Installation

- **Operating System:** Install your preferred server operating system (e.g., Windows Server, Linux distribution).
- **Chipset Drivers:** After OS installation, install the latest chipset drivers for your motherboard from the motherboard manufacturer's website. These drivers are essential for proper CPU and system functionality.
- **Other Drivers:** Install drivers for other components such as network adapters, storage controllers, and any discrete graphics cards.

3.3 Performance Considerations

- **Workload Optimization:** For optimal performance, ensure your applications are configured to utilize multiple cores and threads effectively.
- **Cooling:** Maintain adequate airflow within the server chassis to prevent thermal throttling and ensure sustained performance.
- **BIOS/UEFI Updates:** Periodically check for and apply BIOS/UEFI updates from your motherboard manufacturer, as these often include performance enhancements and bug fixes for CPU compatibility.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and stable operation of your AMD EPYC™ 7513 processor.

4.1 Dust Management

- **Regular Cleaning:** Periodically clean dust from the CPU heatsink, fans, and server chassis using compressed air. Dust accumulation can impede airflow and lead to overheating.
- **Filter Maintenance:** If your server chassis has dust filters, clean them regularly according to the chassis manufacturer's recommendations.

4.2 Thermal Paste Inspection

- **Monitor Temperatures:** Use monitoring software to keep track of CPU temperatures. Elevated temperatures may indicate an issue with the cooling solution or thermal paste.
- **Reapplication:** If temperatures are consistently high despite proper cleaning, consider reapplying thermal paste. This typically involves carefully removing the cooler, cleaning off old paste, and applying new paste.

4.3 Software and Firmware Updates

- **BIOS/UEFI:** Regularly check your motherboard manufacturer's website for the latest BIOS/UEFI updates. These updates can improve CPU compatibility, stability, and performance.
- **Drivers:** Ensure your chipset drivers and other system drivers are up to date.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your AMD EPYC™ 7513 processor.

5.1 Common Issues and Solutions

- **System Does Not Boot / No Display:**

- Ensure all power cables (24-pin ATX, 8-pin CPU) are securely connected.
- Verify the CPU is correctly seated in the socket and the lever is locked.
- Check RAM modules are properly seated in their slots. Try booting with one RAM stick.
- Clear CMOS (Complementary Metal-Oxide-Semiconductor) settings on the motherboard.
- Ensure your motherboard BIOS/UEFI supports the EPYC 7513 processor. An update might be required (often needs an older CPU or BIOS Flashback feature).

- **Overheating / High Temperatures:**

- Verify the CPU cooler is properly installed and making good contact with the CPU.
- Ensure thermal paste is correctly applied and not dried out.
- Check that all case fans are functioning and providing adequate airflow.
- Clean dust from heatsinks and fans.

- **System Instability / Crashes:**

- Ensure all drivers (chipset, etc.) are up to date.
- Run memory diagnostic tools to check for RAM issues.
- Check power supply stability.
- Monitor CPU temperatures during load to rule out thermal throttling.

- **Poor Performance:**

- Verify that the operating system and applications are configured to utilize multiple cores/threads.
- Check for background processes consuming CPU resources.
- Ensure power management settings in the OS and BIOS/UEFI are set for high performance.
- Confirm that the CPU is not thermal throttling due to inadequate cooling.

5.2 Error Codes and Beep Codes

Refer to your motherboard's manual for specific POST (Power-On Self-Test) error codes or beep codes, as these are generated by the motherboard's BIOS/UEFI and indicate specific hardware issues.

6. SPECIFICATIONS

Key technical specifications for the AMD EPYC™ 7513 processor:

Feature	Detail
Processor Model	AMD EPYC™ 7513
Cores / Threads	32 Cores / 64 Threads
Architecture	AMD "Zen 3"
Base Clock Speed	2.6 GHz
Max Boost Clock	Up to 3.65 GHz
L3 Cache	128 MB
Socket Type	Socket SP3

Feature	Detail
PCIe Version	PCIe 4.0
Memory Support	DDR4
Item Weight	8.8 ounces (approx. 249 grams)
Product Dimensions (LxWxH)	4.45 x 4.92 x 2.81 inches (approx. 11.3 x 12.5 x 7.1 cm)

7. WARRANTY AND SUPPORT

7.1 Product Warranty

For detailed information regarding the standard manufacturer's warranty for your AMD EPYC™ 7513 processor, please refer to the official AMD website or the warranty documentation included with your purchase. Warranty terms and conditions, including coverage period and claim procedures, are provided directly by AMD. Extended protection plans may be available from third-party providers at the time of purchase. These plans are separate from the manufacturer's warranty.

7.2 Technical Support

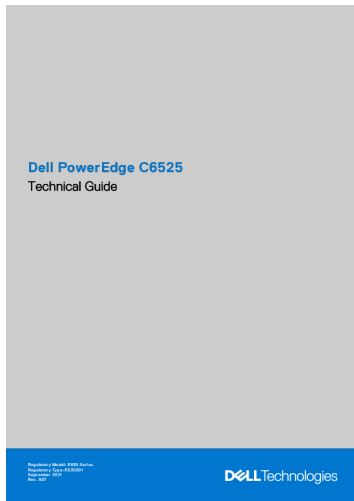
For technical assistance, driver downloads, software updates, and additional resources, please visit the official AMD support website:
www.amd.com/support
You may also find helpful information and community forums on the AMD website for troubleshooting and best practices.



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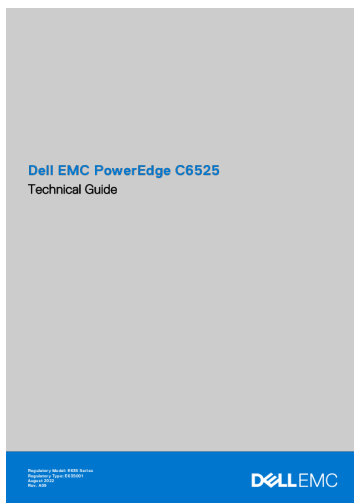


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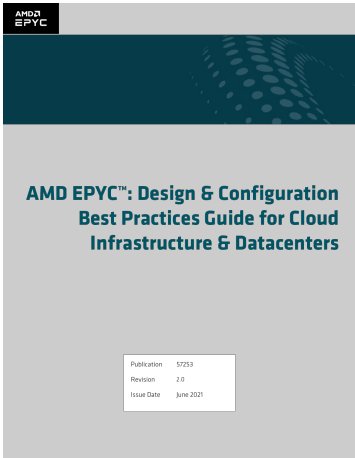


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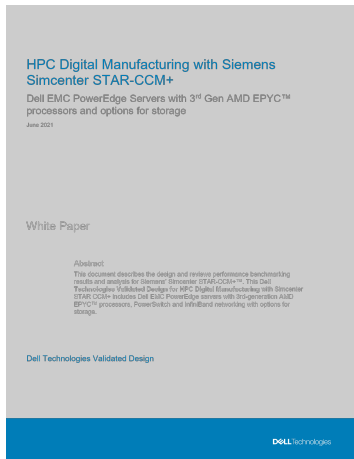


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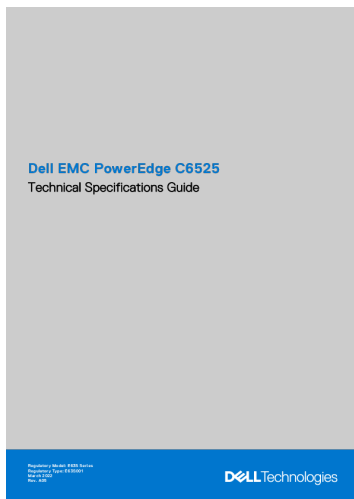


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March 15, 2021

AMD

AMD EPYC™ 7003 Series CPUs Set New Standard as Highest Performance Server Processor

New AMD EPYC processor extends per socket performance leadership and best per core performance™ with new "Zen 3" cores and modern security features.

Partners including AWS, Cisco, Dell Technologies, Google Cloud, HPE, Lenovo, Microsoft Azure, Oracle Cloud Infrastructure, Supermicro, Tencent Cloud and others now offer EPYC processor optimized to an expected 400 cloud instances and 100 new OEM platforms by end of 2021.

SANTA CLARA, Calif., March 15, 2021 (GLOBE NEWSWIRE) – At a digital event, AMD (NASDAQ: AMD) announced the new AMD EPYC™ 7003 Series CPUs, which includes the AMD EPYC 7763, the world's highest performing server processor™. The new EPYC 7003 series processors help HPC, cloud and enterprise customers do more, faster, by delivering the best performance of any server CPU with up to 19% more instructions per clock.*

"With the launch of our 3rd Gen AMD EPYC processors, we are incredibly excited to deliver the fastest server CPU in the world. These processors extend our data center leadership and help customers solve today's most complex IT challenges, while substantially growing our ecosystem," said Forrest Norrod, senior vice president and general manager, Data Center and Embedded Solutions Business Group. "We not only double the performance over the competition in HPC, cloud and enterprise workloads with our newest server CPUs, but together with the AMD Instinct GPUs, we are breaking the exascale barrier in supercomputing and helping to tackle problems that have previously been beyond humanity's reach."

AMD EPYC Processors, Powering the Modern Data Center

Available immediately, AMD EPYC 7003 Series Processors have up to 64 "Zen 3" cores per processor and introduce new levels of per-core cache memory, while continuing to offer the PCIe® 4 connectivity and class-leading memory bandwidths† that defined the EPYC 7002 series CPUs. 3rd Gen AMD EPYC processors also include modern security features through AMD's [Secure Guard](#), supporting a new feature called Secure Encrypted Virtualization-Secure Nested Paging (SEV-SNP). SEV-SNP expands the existing SEV features on EPYC processors, adding strong memory integrity protection capabilities to help prevent malicious hypervisor-based attacks by creating an isolated execution environment. You can read more about new 3rd Gen AMD EPYC features [here](#).

All these features and capabilities combine to help drive faster time to results and improve business outcomes for HPC, cloud and enterprise customers.

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Lenovo ThinkAgile VX2375, VX3375, VX7375-N, VX3376 1U Integrated Systems and Certified Nodes (AMD EPYC 7003) Product Guide

The Lenovo ThinkAgile VX2375, VX3375 and VX7375-N Integrated Systems and VX3376 Certified Nodes are 2-socket 1U systems that feature the AMD EPYC 7003 "Water" family of processors. With up to 64 cores per processor and support for the new PCIe 4 standard for I/O, the 1U systems offer new density in two-socket performance in a 1U form factor. VMware offers a unique, software-defined approach to hyper-convergence, leveraging the hypervisor to deliver compute, storage and management in tightly integrated software blocks.

The 1U systems are available either as an Integrated System (VXxxxx) or Certified Node (P50xxxx).

- VX2375 for SMB, remote office and branch office
- VX3375 and VX3376 for 20+ server virtualizations, and private cloud
- VX7375-N for high-performance workloads such as databases, Exchange, and SharePoint

Tip: ThinkAgile Integrated System is the new name for ThinkAgile Appliance.



Figure 1. Lenovo ThinkAgile VX with 2.5-inch drive bays

Did you know?

The ThinkAgile VX2375, VX3375 and VX7375-N Integrated Systems and VX3376 Certified Node are built on the Lenovo ThinkSystem SR635 server that features enterprise-class reliability, manageability, and security.

The VX2375, VX3375 and VX7375 Integrated Systems offer ThinkAgile Advantage Single Point of Support for quick 24/7 problem reporting and resolution.

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Figure 1. Lenovo ThinkAgile VX with 2.5-inch drive bays

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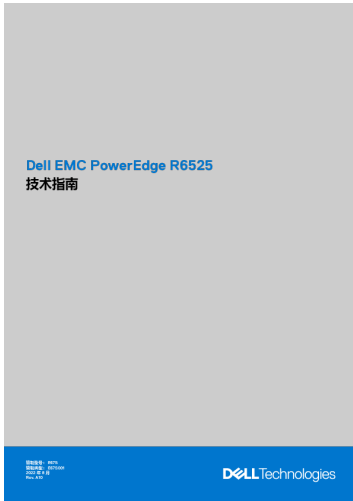
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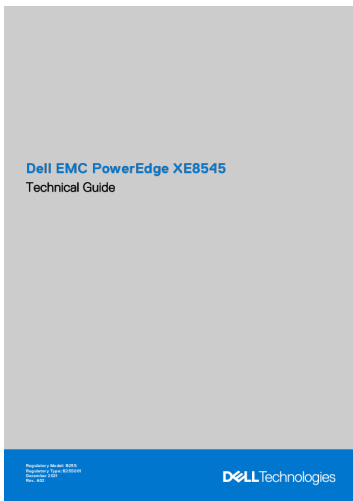
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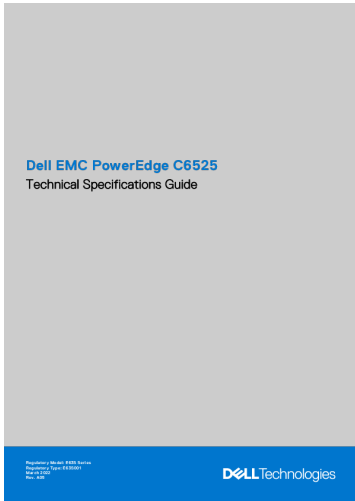
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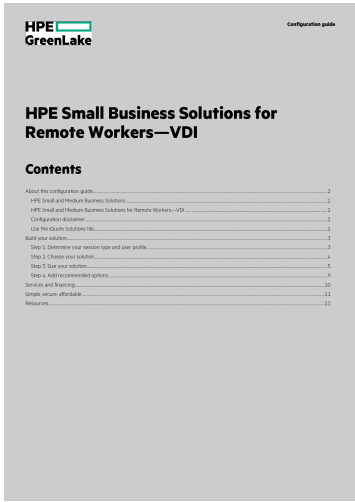


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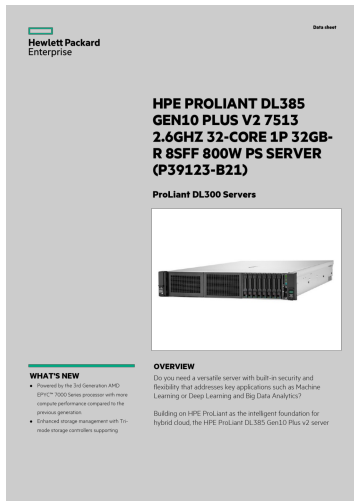


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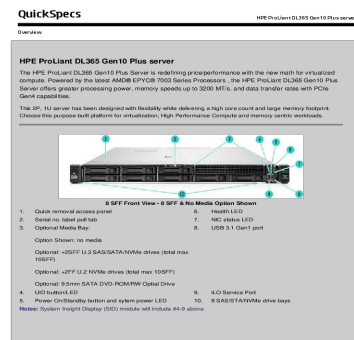


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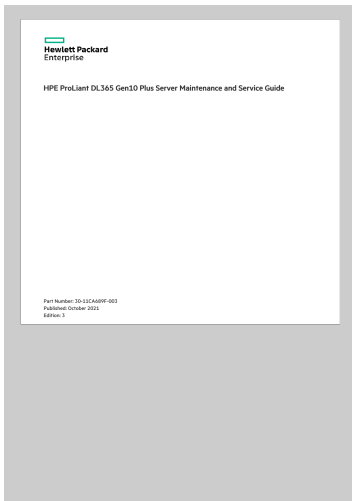


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Part Number	Part Name	Part Description	Part Category	Part Status	Part Manufacturer	Part Material	Part Weight	Part Volume	Part Price
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100-000000504	AMD 7773X	100-000000504	AMD	Active	AMD	Qualification	Qualification	Qualification	Qualification
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