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AMD Ryzen 3 3300X

AMD Ryzen 3 3300X Processor User Manual

Model: Ryzen 3 3300X (100-100000159BOX)

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your AMD Ryzen 3 3300X processor. The AMD Ryzen 3 3300X is a 4-core, 8-thread desktop processor designed for the AM4 platform, offering advanced performance for computing tasks and gaming. It comes bundled with an AMD Wraith Stealth Cooler for thermal management.

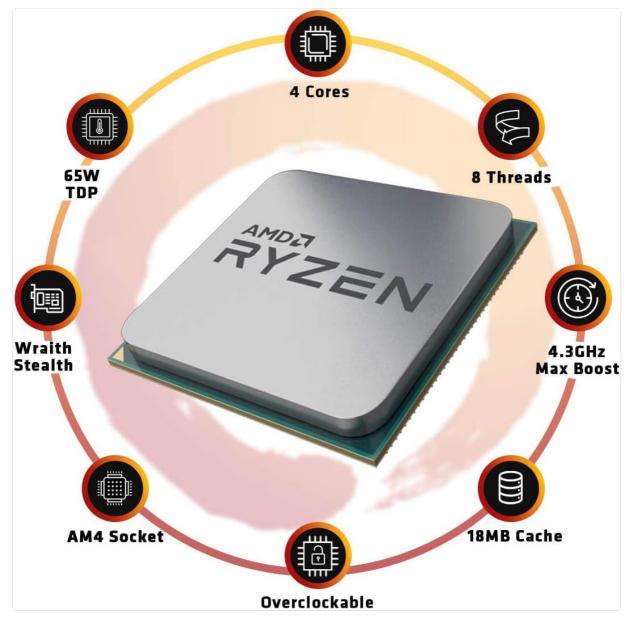


Image 1.1: The AMD Ryzen 3 3300X processor, illustrating its 4 cores, 8 threads, 4.3GHz Max Boost frequency, 18MB cache, AM4 socket compatibility, 65W TDP, and overclockable nature, along with the included Wraith Stealth cooler.

2. SAFETY INFORMATION

Please read and understand all safety precautions before proceeding with installation. Improper handling can damage the processor or other components.

- Electrostatic Discharge (ESD) Protection: Always use an anti-static wrist strap or frequently touch a grounded metal object (e.g., your computer case) before handling components to prevent ESD damage.
- **Power Off:** Ensure your computer system is completely powered off and unplugged from the wall outlet before installing or removing any components.
- **Handle with Care:** Processors are delicate. Avoid touching the gold contacts or pins (if applicable) on the bottom of the CPU. Hold the processor by its edges.
- Ventilation: Ensure adequate airflow within your computer case to prevent overheating.
- **Thermal Paste:** The included Wraith Stealth Cooler has pre-applied thermal paste. If reapplying, use a high-quality thermal compound.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- AMD Ryzen 3 3300X Processor
- AMD Wraith Stealth Cooler (with pre-applied thermal paste)
- Installation Guide / Documentation

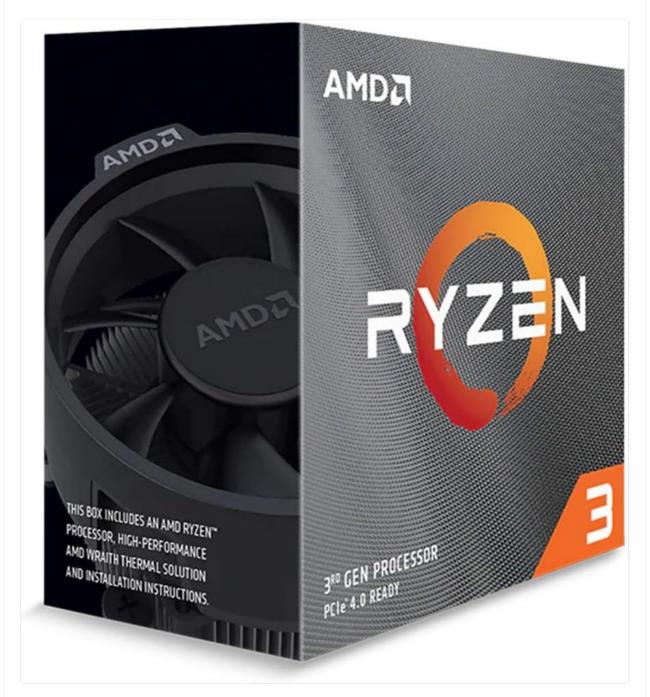


Image 3.1: Retail packaging for the AMD Ryzen 3 3300X processor, indicating the inclusion of the Wraith Stealth Cooler and installation instructions.

4. SETUP AND INSTALLATION

4.1. Motherboard Preparation

- 1. **Compatibility:** Ensure your motherboard has an AM4 socket and supports Ryzen 3000 series processors. Consult your motherboard's manual for CPU compatibility.
- 2. **BIOS/UEFI Update:** It is recommended to update your motherboard's BIOS/UEFI to the latest version before installing the CPU, especially if it's an older motherboard model.
- 3. Clear Workspace: Prepare a clean, well-lit, and static-free workspace.

4.2. Processor Installation

- 1. **Open CPU Socket:** Locate the AM4 CPU socket on your motherboard. Lift the small metal lever on the side of the socket to open it.
- 2. **Align Processor:** Carefully remove the Ryzen 3 3300X processor from its packaging. Identify the golden triangle or arrow on one corner of the CPU and align it with the corresponding triangle/arrow on the motherboard's CPU socket.
- 3. **Insert Processor:** Gently place the processor into the socket. Do not force it. If it does not drop in easily, re-check the alignment.
- 4. **Secure Processor:** Once the processor is seated correctly, push the metal lever back down to secure the CPU in the socket.

4.3. Cooler Installation (AMD Wraith Stealth)

- 1. **Prepare Cooler:** The Wraith Stealth Cooler comes with pre-applied thermal paste. If you are reusing a cooler or applying new thermal paste, ensure the CPU surface is clean and apply a pea-sized amount of thermal paste to the center of the CPU's integrated heat spreader (IHS).
- 2. **Position Cooler:** Place the Wraith Stealth Cooler onto the CPU, aligning the four spring-loaded screws with the holes on the motherboard's AM4 retention bracket.
- 3. **Secure Cooler:** Tighten the four screws in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left) until they are finger-tight. Do not overtighten.
- 4. **Connect Fan Cable:** Connect the cooler's 4-pin fan cable to the "CPU_FAN" header on your motherboard.

5. OPERATING INSTRUCTIONS

5.1. BIOS/UEFI Configuration

After initial boot, enter your motherboard's BIOS/UEFI settings (usually by pressing DEL or F2 during startup). Key settings to check:

- Memory Profile (XMP/DOCP): Enable the Extreme Memory Profile (XMP) or D.O.C.P. (Direct Over Clock Profile) for your RAM to run at its advertised speeds.
- **CPU Settings:** Verify that the CPU is recognized correctly. Advanced users may adjust Precision Boost Overdrive (PBO) settings for enhanced performance.
- Fan Control: Configure fan curves for the CPU cooler to balance cooling performance and noise levels.

5.2. Driver Installation

Install the latest AMD Chipset Drivers for your motherboard from the official AMD website (www.amd.com/support). These drivers are crucial for optimal system stability and performance.

5.3. Overclocking (Advanced Users)

The AMD Ryzen 3 3300X is an unlocked processor, allowing for overclocking to achieve higher performance. Overclocking should only be attempted by experienced users as it can lead to system instability or component damage if not done correctly. AMD provides the AMD Ryzen Master Utility for fine-tuning CPU settings within Windows.

AMD RYZEN Master Utility

Your One-Click Tool to Overclock the Ryzen Processors









Image 5.1: The AMD Ryzen Master Utility interface, a software tool for monitoring and adjusting AMD Ryzen processor settings, including overclocking, for personalized performance and system monitoring.

6. MAINTENANCE

6.1. Cleaning the Cooler

Over time, dust can accumulate in the Wraith Stealth Cooler's heatsink fins, reducing its cooling efficiency. Regularly clean the cooler:

- · Power off and unplug your computer.
- Use compressed air to blow dust out of the heatsink fins. Hold the fan blades gently to prevent them from spinning excessively during cleaning.
- For stubborn dust, a soft brush can be used.

6.2. Thermal Paste Reapplication

The thermal paste on the Wraith Stealth Cooler is designed for long-term use. However, if you remove the cooler for any reason, or if you notice consistently high temperatures, it is recommended to clean off the old thermal paste from both the CPU and the cooler's base and apply a fresh layer of high-quality thermal compound before reinstallation.

7. TROUBLESHOOTING

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 cooler is properly installed.
- Check RAM modules are fully seated in their slots.
- Confirm your monitor is connected to the graphics card (Ryzen 3 3300X does not have integrated graphics).
- Try resetting the motherboard's CMOS.

• High CPU Temperatures:

- Ensure the CPU cooler fan is spinning and connected to the CPU_FAN header.
- Verify the cooler is making proper contact with the CPU and the thermal paste application is adequate.
- · Check for proper airflow in your PC case.
- · Clean any dust accumulation on the cooler.

• System Instability / Crashes:

- Ensure all drivers, especially chipset drivers, are up to date.
- · Check RAM stability (e.g., run a memory test).
- If overclocking, revert to default CPU settings to rule out instability caused by overclock.

8. SPECIFICATIONS

Feature	Detail
Processor Cores	4
Processing Threads	8
Base Clock Speed	3.8 GHz
Max Boost Clock	Up to 4.3 GHz
Total L3 Cache	16 MB
Default TDP	65W
Processor Graphics	None (Requires Discrete Graphics Card)
Socket	AM4
Included Cooler	AMD Wraith Stealth
PCIe Version	PCIe 4.0 (with compatible motherboard)
Model Number	100-100000159BOX

Note: Specifications are subject to change without notice. For the most up-to-date information, please visit the official AMD website.

9. WARRANTY AND SUPPORT

AMD processors typically come with a limited warranty. For detailed warranty information, including terms and conditions, please refer to the warranty card included with your product or visit the official AMD

website.

For technical support, driver downloads, and additional resources, please visit the AMD Support website: www.amd.com/support

When contacting support, please have your processor model (Ryzen 3 3300X) and serial number ready.

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Related Documents - Ryzen 3 3300X



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