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AMD 100-100000284BOX

AMD Ryzen 3 3100 Processor

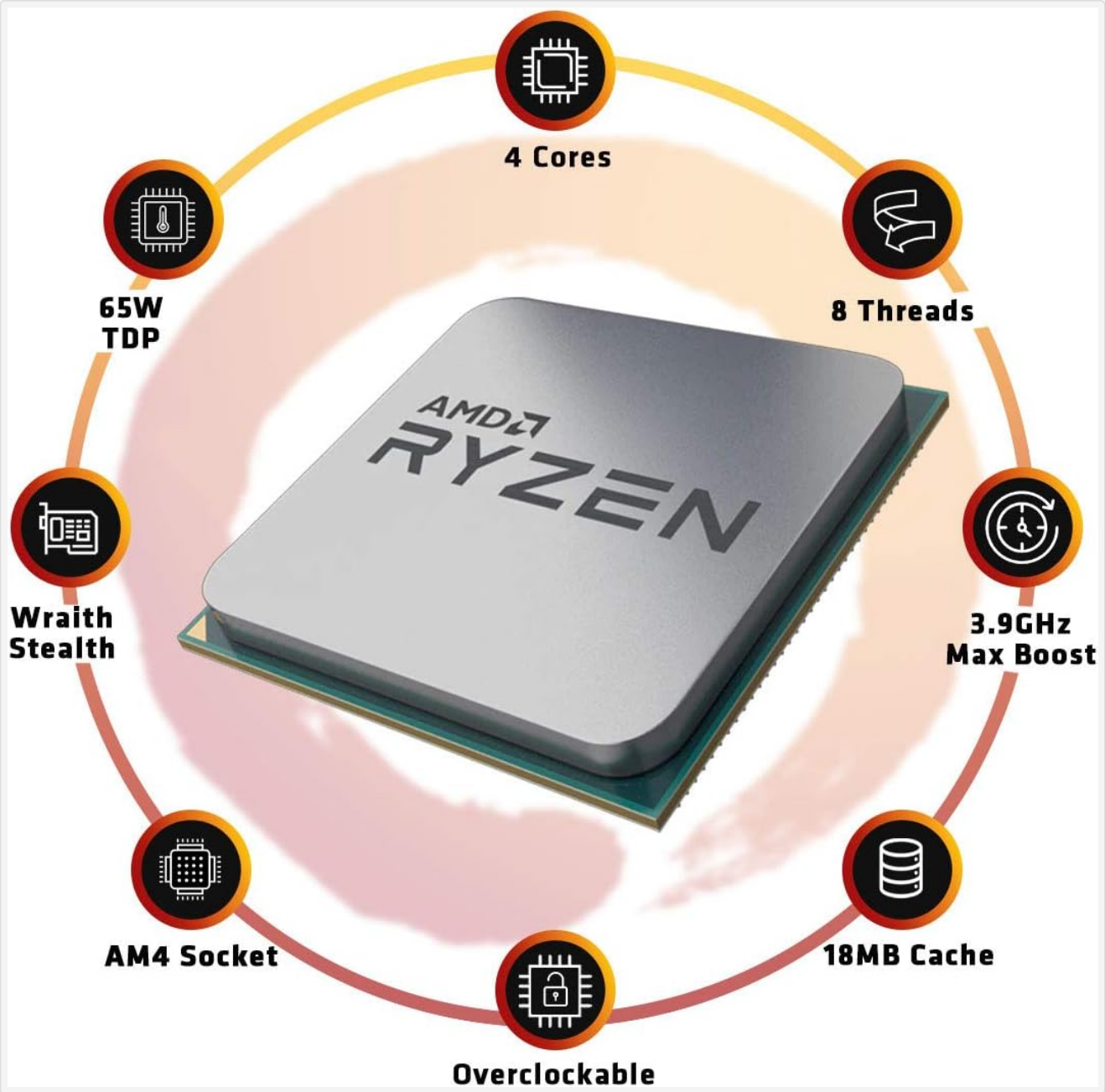
USER MANUAL

1. Product Overview

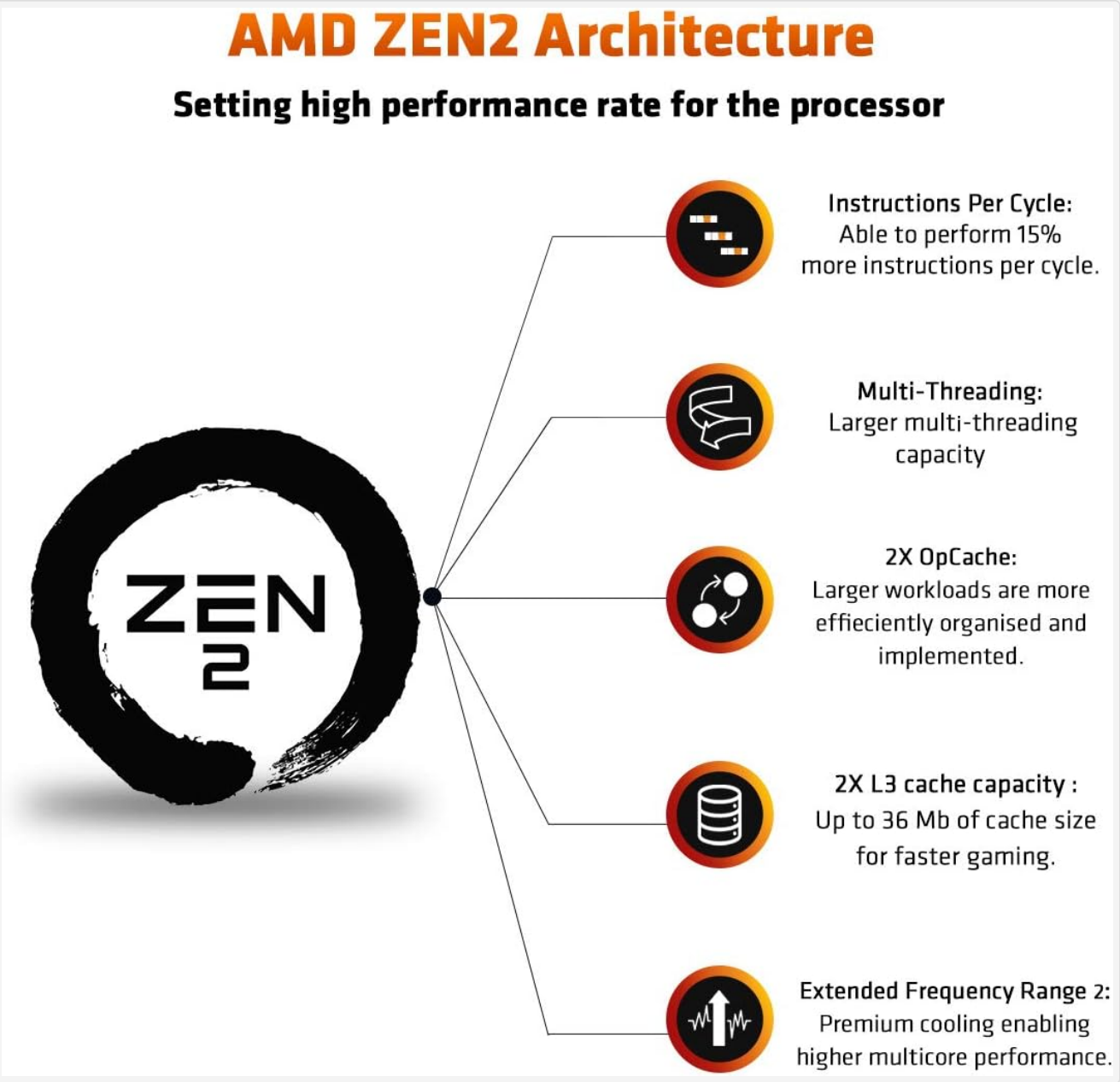
The AMD Ryzen 3 3100 is an advanced 3rd Generation desktop processor designed for productivity and gaming. Featuring 4 cores and 8 processing threads, it offers robust multitasking capabilities. This processor is bundled with the quiet AMD Wraith Stealth cooler, ensuring efficient thermal management.

Key Features

- **4 Cores and 8 Processing Threads:** Provides strong multitasking and gaming performance.
- **3.9 GHz Max Boost:** Delivers high clock speeds for demanding applications.
- **Unlocked for Overclocking:** Allows for custom performance tuning.
- **18 MB of GameCache:** Enhances gaming responsiveness.
- **DDR4-3200 Support:** Compatible with high-speed memory modules.
- **Socket AM4 Platform:** Ensures broad compatibility with modern motherboards.
- **PCIe 4.0 Support:** On X570 and B550 motherboards for high-bandwidth components.
- **Bundled Wraith Stealth Cooler:** Provides effective and quiet cooling.



An illustrative diagram highlighting the core specifications of the AMD Ryzen processor, such as its 4 cores, 8 threads, thermal design power (TDP), included cooler, compatible socket type, maximum boost frequency, cache size, and overclocking potential.



A visual representation of the AMD Zen2 Architecture, detailing its advancements such as improved instructions per cycle, enhanced multi-threading, doubled OpCache and L3 cache capacity, and extended frequency range for superior performance.

2. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your AMD Ryzen 3 3100 processor. Always ensure your system is powered off and unplugged before beginning installation.

Package Contents

- AMD Ryzen 3 3100 Processor
- AMD Wraith Stealth Cooler
- Installation Guide / Documentation

The retail packaging for the AMD Ryzen 3 3100 processor, which includes the CPU and the Wraith Stealth Cooler.

Installation Steps

1. **Prepare Motherboard:** Ensure your motherboard is compatible with the AM4 socket and has the latest BIOS version.
2. **Open CPU Socket:** Gently lift the retention arm on the AM4 socket.
3. **Install CPU:** Align the golden triangle on the processor with the triangle on the socket. Carefully lower the processor into the socket without forcing it.
4. **Secure CPU:** Lower the retention arm to secure the processor in place.
5. **Apply Thermal Paste:** If the Wraith Stealth Cooler does not have pre-applied thermal paste, apply a small amount (pea-sized) to the center of the CPU's integrated heat spreader (IHS).
6. **Install Cooler:** Position the Wraith Stealth Cooler over the CPU, aligning the mounting clips or screws with the motherboard's retention bracket. Secure the cooler firmly.

7. **Connect Cooler Fan:** Connect the cooler's fan cable to the CPU_FAN header on your motherboard.
8. **Install Discrete Graphics Card:** *Important:* The AMD Ryzen 3 3100 processor does not have integrated graphics. A separate, discrete graphics card is required for video output. Install your graphics card into the appropriate PCIe slot and connect any necessary power cables.
9. **Assemble System:** Reassemble your PC components and connect power.

3. Operating Instructions

Once installed, your AMD Ryzen 3 3100 processor will operate automatically within your system. For optimal performance and advanced control, consider the following:

System Performance

- Ensure your operating system and drivers (especially chipset drivers from AMD's website) are up to date.
- For gaming, pair the processor with a suitable discrete graphics card to achieve desired frame rates.
- Utilize dual-channel memory configuration for improved performance.

AMD Ryzen Master Utility

The AMD Ryzen Master Utility is a powerful software tool that provides advanced control over your Ryzen processor. It allows for personalized performance tuning, including overclocking and system monitoring.

A screenshot of the AMD Ryzen Master Utility, a software tool that allows users to fine-tune their Ryzen processor's performance, including overclocking capabilities for integrated graphics and comprehensive system monitoring.

VR-Ready Premium

The AMD Ryzen 3 3100 is part of the AMD Ryzen VR-Ready Premium lineup, indicating its capability to deliver the processing power required for high-quality virtual reality experiences when paired with a compatible VR-ready graphics card.

An image featuring the AMD Ryzen VR-Ready Premium certification, signifying that the processor meets the necessary performance requirements for an optimal virtual reality experience.

4. Maintenance and Care

To ensure the long-term stability and performance of your processor, regular maintenance of your PC system is recommended.

- **Dust Removal:** Periodically clean dust from your PC case, especially around the CPU cooler and case fans, using compressed air. Dust accumulation can impede airflow and lead to higher temperatures.
- **Thermal Paste:** Over several years, thermal paste can dry out. If you notice consistently high CPU temperatures,

consider reapplying fresh thermal paste to the CPU. This requires removing the cooler, cleaning old paste, and applying new paste.

- **Software Updates:** Keep your operating system, motherboard BIOS, and AMD chipset drivers updated to benefit from performance improvements and bug fixes.

5. Troubleshooting

If you encounter issues with your AMD Ryzen 3 3100 processor, refer to the following common troubleshooting steps:

- **No Display Output:**
  - Ensure a discrete graphics card is properly installed and connected to your monitor. The Ryzen 3 3100 does not have integrated graphics.
  - Check that the graphics card has sufficient power connected.
- **System Instability/Crashes:**
  - Verify that the CPU cooler is securely mounted and the fan is spinning.
  - Check CPU temperatures using monitoring software. High temperatures can cause instability.
  - Ensure RAM modules are properly seated and compatible with your motherboard and CPU.
  - Reset BIOS settings to default.
- **Overheating:**
  - Confirm proper application of thermal paste.
  - Ensure adequate airflow within your PC case.
  - Clean dust from the CPU cooler fins and fan.
- **Poor Performance:**
  - Ensure all system drivers, especially chipset drivers, are up to date.
  - Check background processes that might be consuming CPU resources.
  - Verify that your RAM is running at its advertised speed (check BIOS/UEFI settings).

6. Technical Specifications

Feature	Specification
Processor Model	AMD Ryzen 3 3100
Cores / Threads	4 Cores / 8 Threads
Base Clock Speed	3.6 GHz
Max Boost Clock	Up to 3.9 GHz
Total L1 Cache	256KB
Total L2 Cache	2MB
Total L3 Cache	16MB
Default TDP	65W

Feature	Specification
Processor Technology for CPU Cores	TSMC 7nm FinFET
Unlocked for Overclocking	Yes
CPU Socket	AM4
PCIe Version	PCIe 4.0
System Memory Type	DDR4
Memory Channels	2
Max Memory Speed	Up to 3200MHz
Included Cooler	Wraith Stealth
Product Dimensions (LxWxH)	5.28 x 5.16 x 0.1 inches
Item Weight	14.4 ounces
Item Model Number	100-100000284BOX

7. Warranty Information

AMD processors are covered by a limited warranty. The specific terms and duration of the warranty may vary by region and product. Please refer to the official AMD website or the documentation included with your processor for detailed warranty information.

Keep your proof of purchase for warranty claims.

8. Customer Support

For further assistance, technical support, or driver downloads, please visit the official AMD support website:

www.amd.com/support

You can also find community forums and knowledge bases on the AMD website for additional resources.

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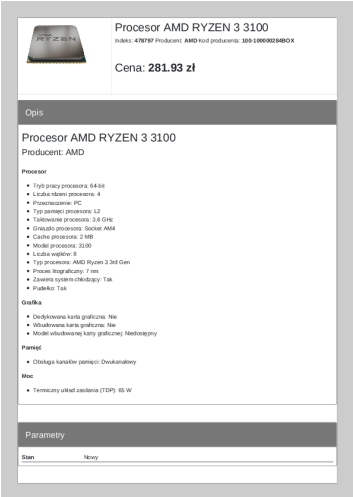

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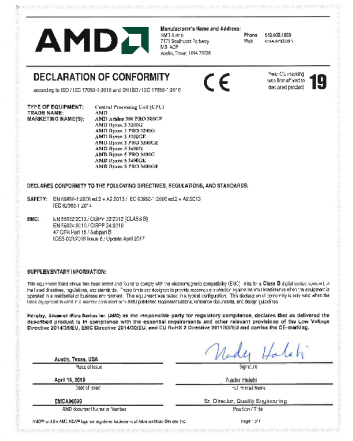

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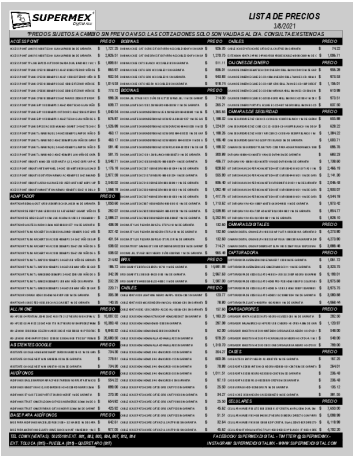

Supermex Digital - Lista de Precios de Componentes Electrónicos y Periféricos

Consulta la lista de precios actualizada de Supermex Digital para una amplia gama de componentes de computación, periféricos, accesorios de gaming, y más. Encuentra productos de marcas reconocidas como HP, Dell, Logitech, Kingston, y muchas otras.

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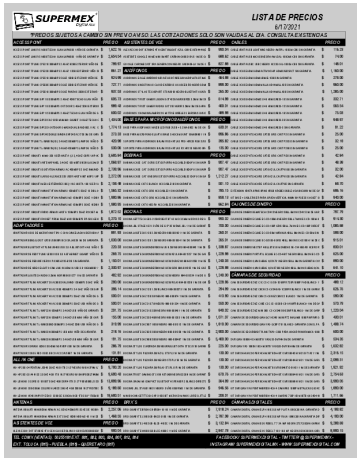

[Supermex Digital - Lista de Precios]

Supermex Digital offers a comprehensive price list for a wide range of computer components, peripherals, and accessories. Browse through categories like CPUs, motherboards, RAM, storage, graphics cards, monitors, and more, all with detailed product information and pricing.

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