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XFX RX-79XMERCB9

XFX Speedster MERC310 AMD Radeon RX 7900XTX Graphics Card User Manual

Model: RX-79XMERCB9

Introduction

This manual provides essential information for the safe and efficient use of your XFX Speedster MERC310 AMD Radeon RX 7900XTX Black Gaming Graphics Card. Please read these instructions carefully before installation and operation to ensure optimal performance and longevity of your product.

The XFX Speedster MERC310 AMD Radeon RX 7900XTX is a high-performance graphics card designed for demanding gaming and professional applications, featuring AMD RDNA 3 architecture and 24GB GDDR6 memory.

Safety Information

- Always disconnect power from your computer before installing or removing any components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Use an anti-static wrist strap or discharge static electricity by touching a grounded metal object before handling the card.
- Ensure adequate ventilation within your computer case to prevent overheating.
- Do not expose the graphics card to moisture or extreme temperatures.

Package Contents

Verify that all items are present in your product packaging:

- XFX Speedster MERC310 AMD Radeon RX 7900XTX Graphics Card
- Z Bar (Support Bracket)

Setup

System Requirements

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 750W power supply with three available 8-pin PCIe power connectors.
- Compatible operating system (Windows 10/11 64-bit or Linux 64-bit).
- At least 8GB of system memory (16GB recommended).

Physical Installation

1. **Prepare Your System:** Power off your computer and disconnect the power cable. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that obstruct the slot.
3. **Install Graphics Card:** Carefully align the graphics card with the PCIe x16 slot. Press down firmly and evenly until the card is securely seated. Ensure the retention clip on the PCIe slot locks into place.
4. **Secure the Card:** Use screws to secure the graphics card to the computer case at the expansion slot bracket.
5. **Connect Power:** Connect three 8-pin PCIe power cables from your power supply to the corresponding power connectors on the graphics card. Ensure a firm connection.

Image: XFX Speedster MERC310 RX 7900XTX Graphics Card and its packaging.

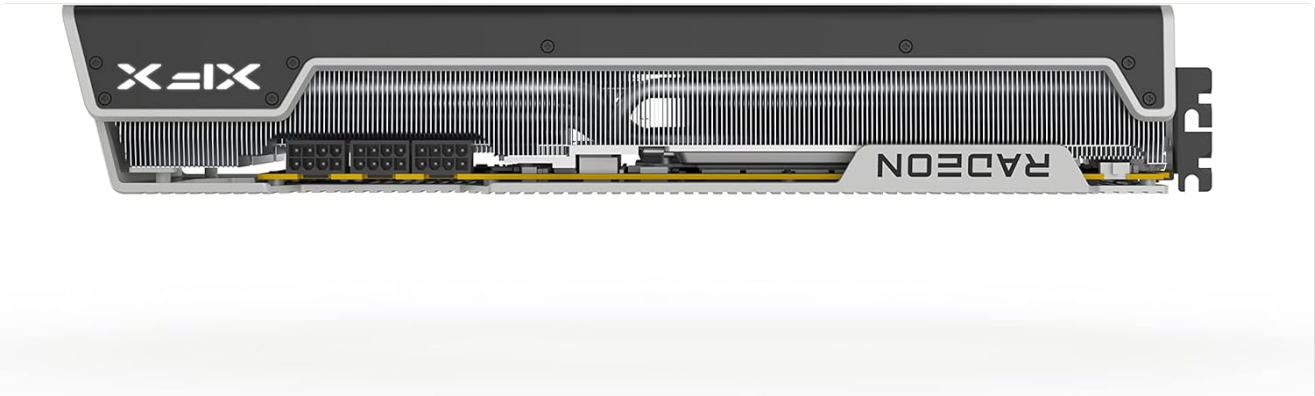

Image: Top view of the graphics card, highlighting the three 8-pin power connectors.

Image: Close-up of the three 8-pin power connectors, illustrating proper connection points.

Driver Installation

1. **Reconnect Power:** Close your computer case and reconnect the power cable. Turn on your computer.
2. **Download Drivers:** Navigate to the official AMD website (www.amd.com/en/support) and download the latest AMD Radeon Software for your RX 7900XTX graphics card.
3. **Install Drivers:** Run the downloaded installer and follow the on-screen instructions. A restart may be required after installation.

Operating

Connecting Displays

The XFX Speedster MERC310 RX 7900XTX supports multiple display outputs:

- DisplayPort 2.1
- HDMI 2.1

Connect your monitor(s) to the appropriate ports on the graphics card. For optimal performance, use high-quality cables that support the desired resolution and refresh rate.

Image: Angled view of the graphics card, showing the various display output ports.

Software Configuration

Utilize the AMD Radeon Software Adrenalin Edition to manage your graphics card settings. This software allows you to:

- Adjust display settings and resolutions.
- Optimize game performance with various profiles.
- Monitor GPU temperature, clock speeds, and utilization.
- Access features like AMD FreeSync, Radeon Anti-Lag, and Radeon Boost.

Key Features

- **AMD RDNA 3 Architecture:** Delivers advanced performance and power efficiency.
- **24GB GDDR6 Memory:** High-bandwidth memory for demanding games and applications.
- **XFX MERC Triple Fan Cooling Solution:** Efficient cooling for sustained performance.
- **Boost Clock:** Up to 2615 MHz for enhanced gaming experiences.
- **AMD Radiance Display Engine:** Supports 12-bit HDR and REC2020 color space for up to 8K 165Hz visuals.
- **Extreme Stability and Overclocking:** 12+3+2 phase power design for stable operation and overclocking potential.

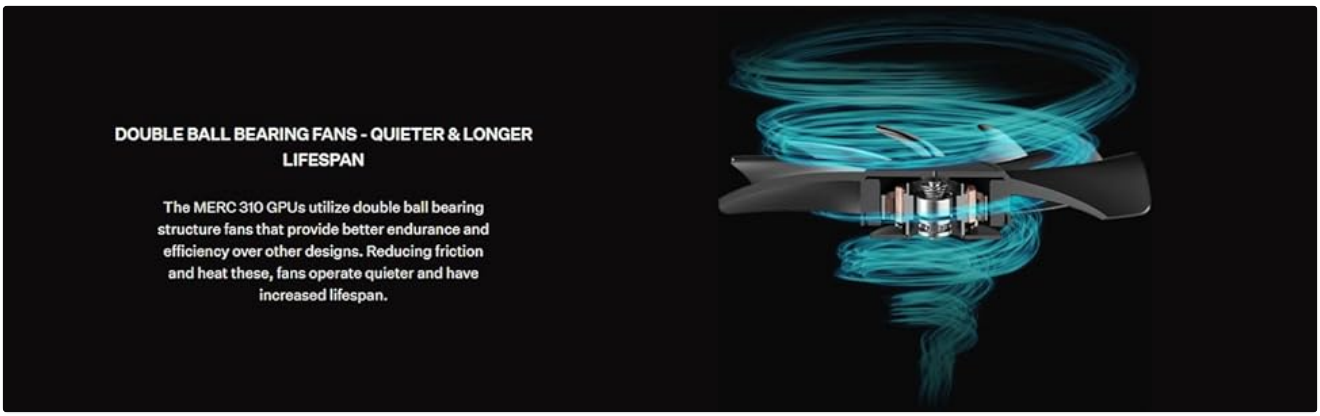

Image: Diagram showing the double ball bearing fan structure, designed for quiet operation and extended lifespan.

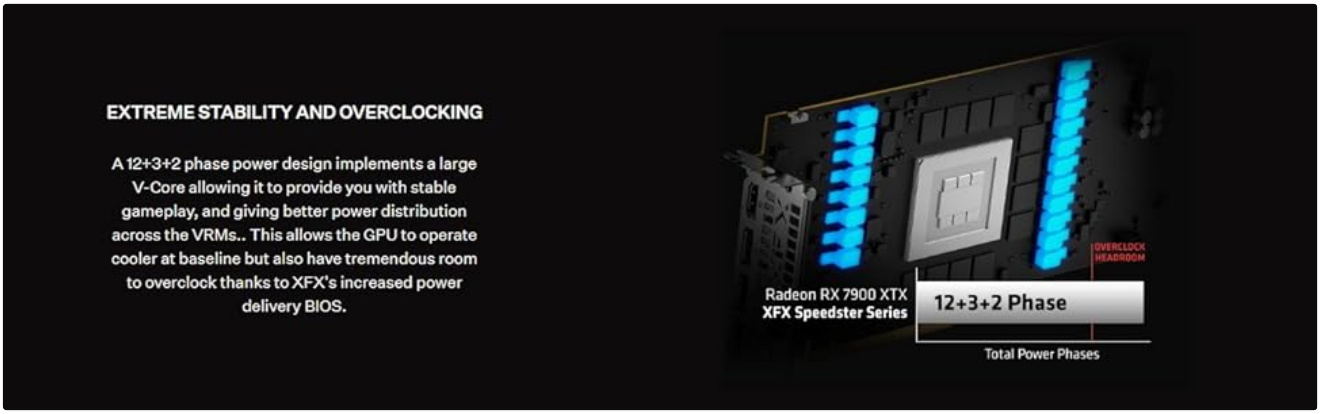

Image: Internal diagram of the graphics card's PCB, illustrating the 12+3+2 phase power delivery system for stability.

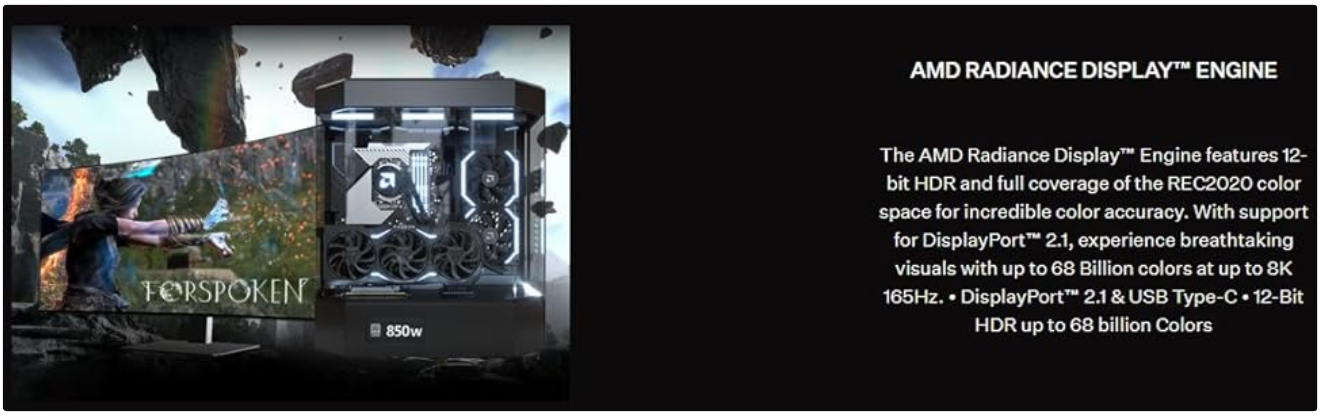

Image: A PC setup with a monitor displaying a game, demonstrating the visual capabilities of the AMD Radiance Display Engine.

Maintenance

- **Cleaning:** Periodically clean dust from the graphics card fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check the official AMD website for the latest driver updates to ensure optimal performance and compatibility.
- **Temperature Monitoring:** Use AMD Radeon Software to monitor GPU temperatures during heavy loads. Ensure temperatures remain within safe operating limits.

Troubleshooting

- **No Display Output:**

- Ensure the graphics card is fully seated in the PCIe slot.
- Verify all PCIe power cables are securely connected.
- Check that your monitor is connected to the graphics card, not the motherboard's integrated graphics port.
- Test with a different display cable or monitor if possible.

- **Performance Issues/Crashes:**
  - Ensure you have the latest graphics drivers installed from AMD's official website.
  - Check for adequate power supply capacity and stable power connections.
  - Monitor GPU temperatures to ensure the card is not overheating.
  - Verify your system meets the minimum requirements for the applications you are running.

- **Fan Noise:**
  - Clean dust from the fans and heatsink.
  - Ensure no cables are obstructing the fan blades.
  - Adjust fan curves using AMD Radeon Software if desired, but avoid settings that compromise cooling.

Specifications

Feature	Specification
Graphics Coprocessor	AMD Radeon RX 7900 XTX
Memory	24 GB GDDR6
Memory Speed	20 GHz
Boost Clock	Up to 2615 MHz
Video Output Interface	DisplayPort 2.1, HDMI 2.1
Item Model Number	RX-79XMERCB9
Item Weight	5.5 pounds
Product Dimensions (LxWxH)	13.54 x 5.04 x 2.24 inches
Manufacturer	XFX

Warranty and Support

Your XFX Speedster MERC310 AMD Radeon RX 7900XTX Graphics Card is covered by a manufacturer's warranty. Please refer to the warranty information provided with your purchase or visit the official XFX website for details regarding warranty terms and conditions.

For technical support, driver downloads, and frequently asked questions, please visit the official XFX support page:

XFX Official Support

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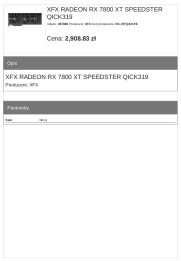
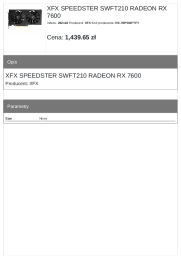
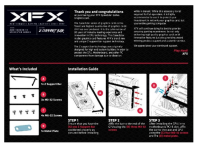
	XFX Radeon RX 7800 XT Speedster QICK319 Graphics Card Detailed information about the XFX Radeon RX 7800 XT Speedster QICK319 graphics card by XFX, including its index, manufacturer code, price, and status.
	Karta graficzna XFX SPEEDSTER SWFT210 RADEON RX 7600 - Specyfikacja i Opis Szczegółowe informacje o karcie graficznej XFX SPEEDSTER SWFT210 RADEON RX 7600, w tym dane techniczne, opis produktu i cena.
	XFX Speedster Series Z Support Bar Installation Guide Instructions for installing the XFX Speedster Series Z Support Bar, a component designed to protect your GPU and motherboard from vibration and damage.
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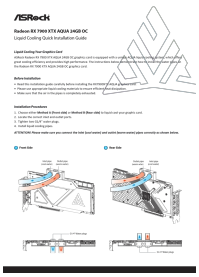
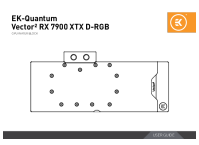
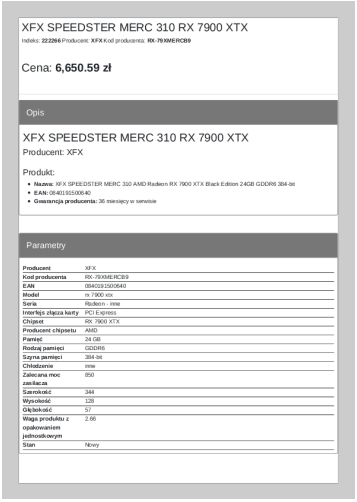
	ASRock Radeon RX 7900 XTX AQUA 24GB OC Liquid Cooling Quick Installation Guide Step-by-step instructions for installing the liquid cooling system on the ASRock Radeon RX 7900 XTX AQUA 24GB OC graphics card, covering front and rear side connections for optimal cooling performance.
	EK-Quantum Vector² RX 7900 XTX D-RGB GPU Water Block User Guide Comprehensive user guide for installing the EK-Quantum Vector² RX 7900 XTX D-RGB GPU Water Block, including box contents, dimensions, technical specifications, step-by-step assembly instructions, thermal pad placement, testing procedures, and warranty information from EK Water Blocks.



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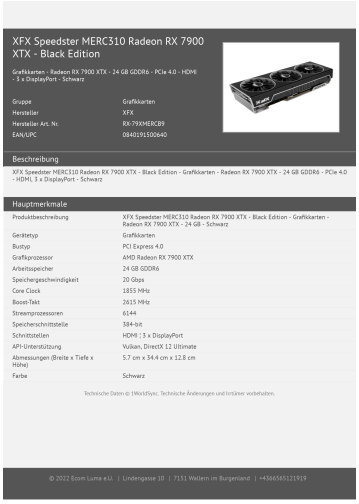

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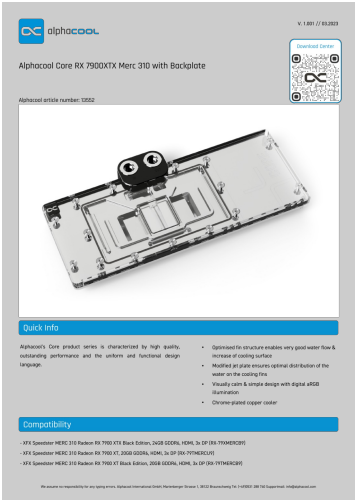

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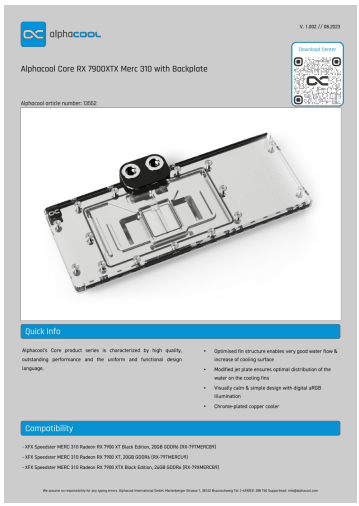

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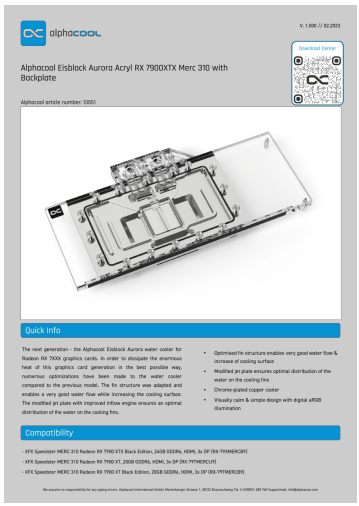

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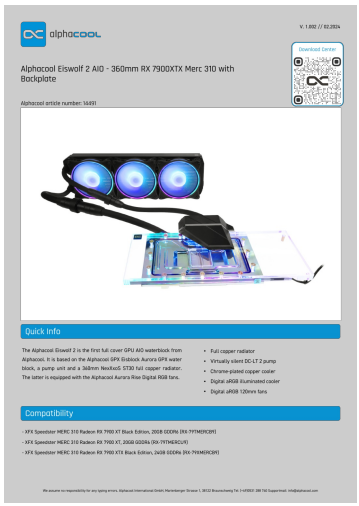

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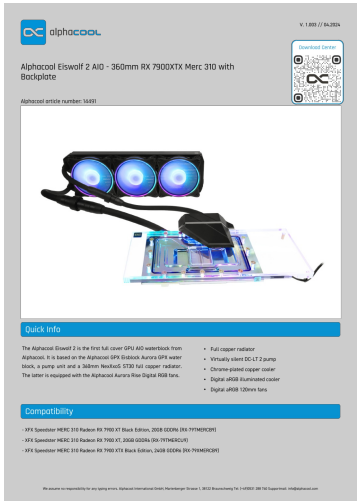

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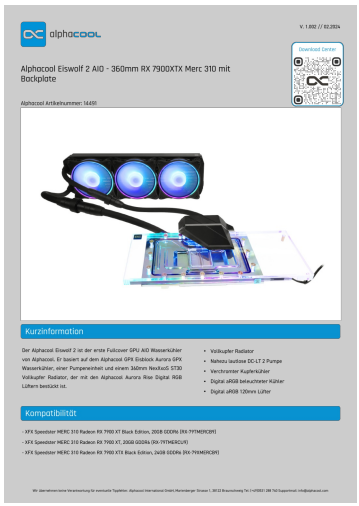

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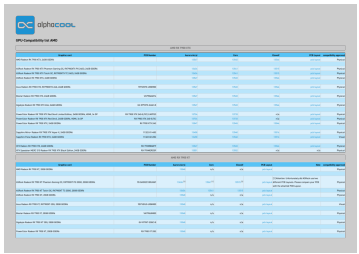

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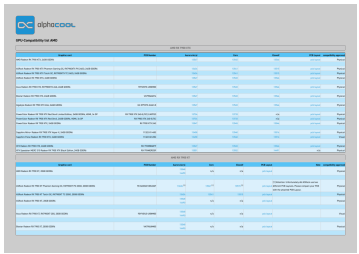

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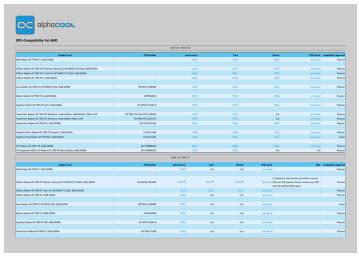

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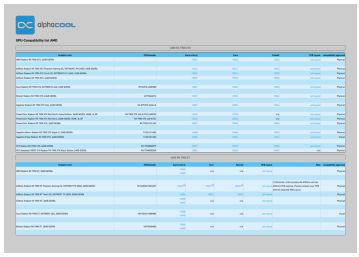

Alphacool GPU Compatibility List for AMD Radeon Graphics Cards

Alphacool provides a comprehensive compatibility list for its water cooling solutions with a wide range of AMD Radeon graphics cards, including the latest RX 7000 series and popular RX 6000 and RX 5000 series. This guide helps users identify compatible Alphacool components like Aurora Acryl and Eiswolf by checking specific GPU models, PCB numbers, and compatibility notes for building custom PC water cooling loops.

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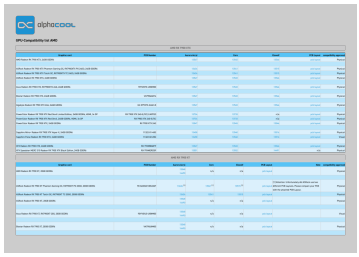

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GPU-Compatibility list AMD AMD Radeon RX 7900 XTX, 24GB GDDR6 Graphisc card ASRock Radeon RX 7900 ... 00 XTX 24G-E/OC/LIMITED RX 7900 XTX 24G-E/OC RX 7900 XTX 24G 11322-01-40G 11322-02-20G RX-79XMBABF9 **RX-79XMERCB9** PCB Number 90-GA3XZZ-00UANF 90YV0IU0-U0NM00 VA7906XM00 AMD RX 7900 XTX Aurora Acryl 13...

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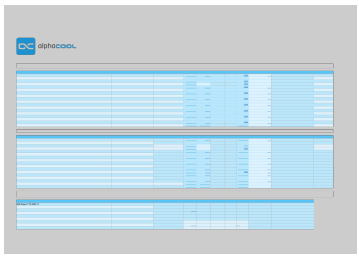

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Compatibility list AMD Graphic card AMD Radeon RX 7900 XTX, 24GB GDDR6, HDMI, 2x DP, USB-C ASRock R ... 13546 Link 11322-01-40G 7900XT/X Nitro coming soon 13458 n/a n/a 13516 Link RX-79XMBABF9 **RX-79XMERCB9** 7900XTX Reference coming soon 13547 n/a n/a 13546 Link 7900XTX Merc coming soon...

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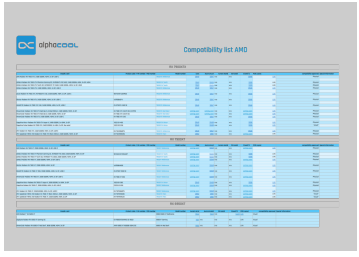

Alphacool GPU Compatibility List for AMD Radeon Graphics Cards

Alphacool's comprehensive compatibility guide for AMD Radeon graphics cards, detailing compatible Alphacool water cooling components like Eiswolf and Aurora for various GPU models including RX 7900 series, RX 6000 series, RX 5000 series, and Vega series.

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