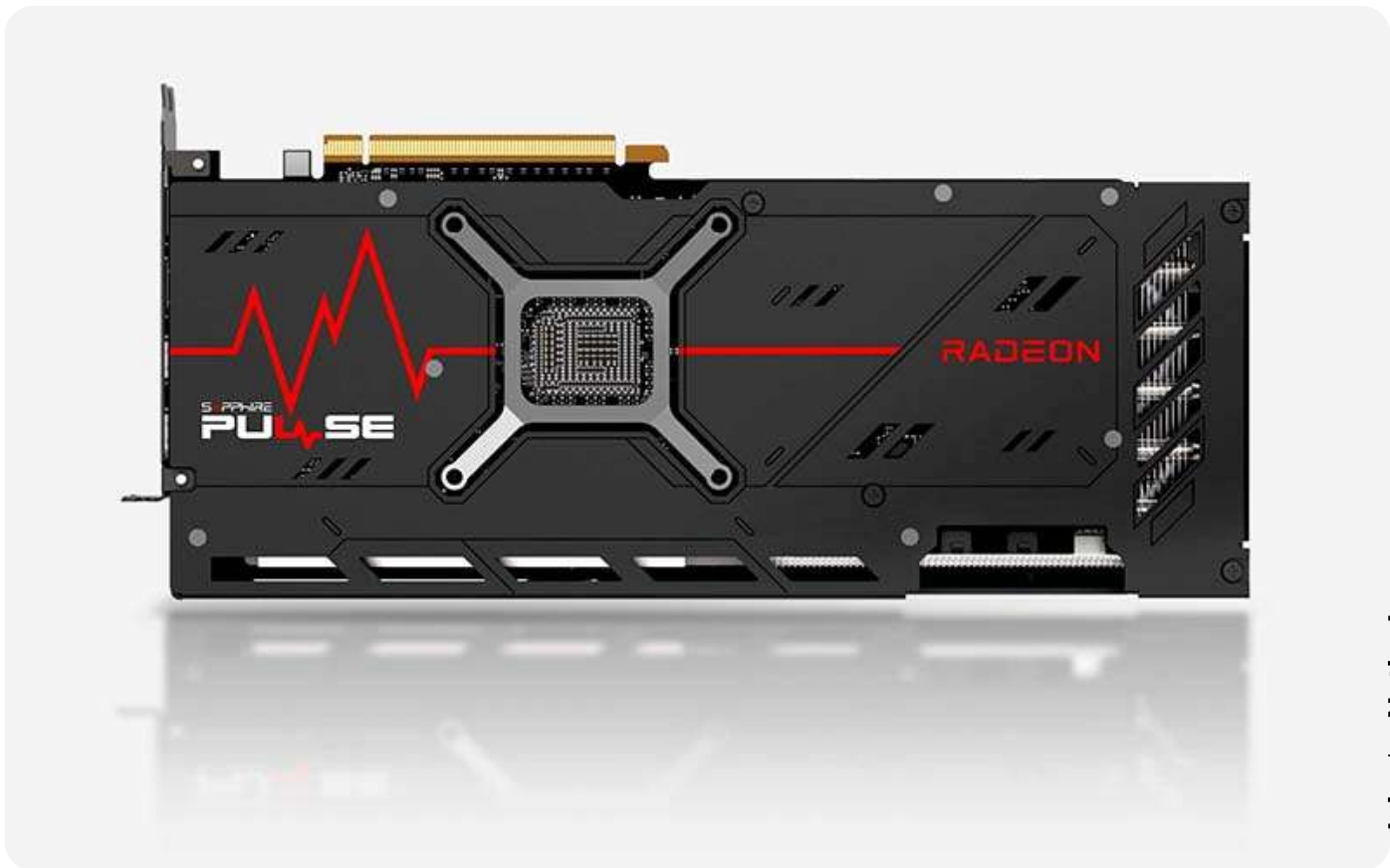


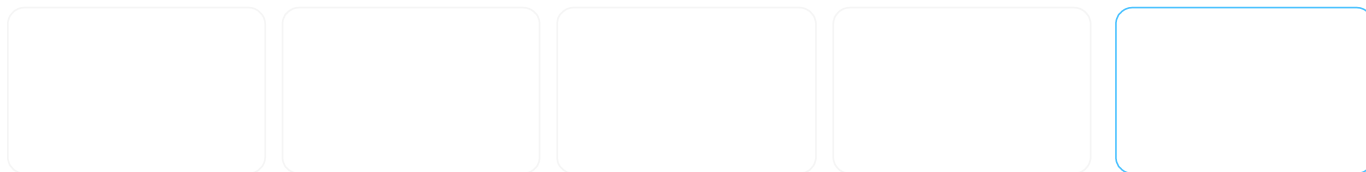
[Click here to get our SAPPHIRE Wallpapers! \(https://www.sapphiretech.com/en/resources\)](https://www.sapphiretech.com/en/resources)



(/en)




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## PULSE AMD Radeon™ RX 7900 XT 20GB

- GPU: Boost Clock: Up to 2450 MHz
- GPU: Game Clock: Up to 2075 MHz
- Memory: 20GB/320 bit DDR6, 20 Gbps Effective
- Stream Processors: 5376
- RDNA™ 3 Architecture
- Ray Accelerator: 84

 Share

PULSE AMD Radeon™ RX 7900 XTX 24GB  
Related Product

[\(/en/consumer/pulse-radeon-rx-7900-xtx-24g-gddr6\)](/en/consumer/pulse-radeon-rx-7900-xtx-24g-gddr6)

Explore all **PULSE** [\(/en/pulse-explore\)](/en/pulse-explore)

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# AMD RDNA™ 3 Architecture



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**20GB of GDDR6 memory**

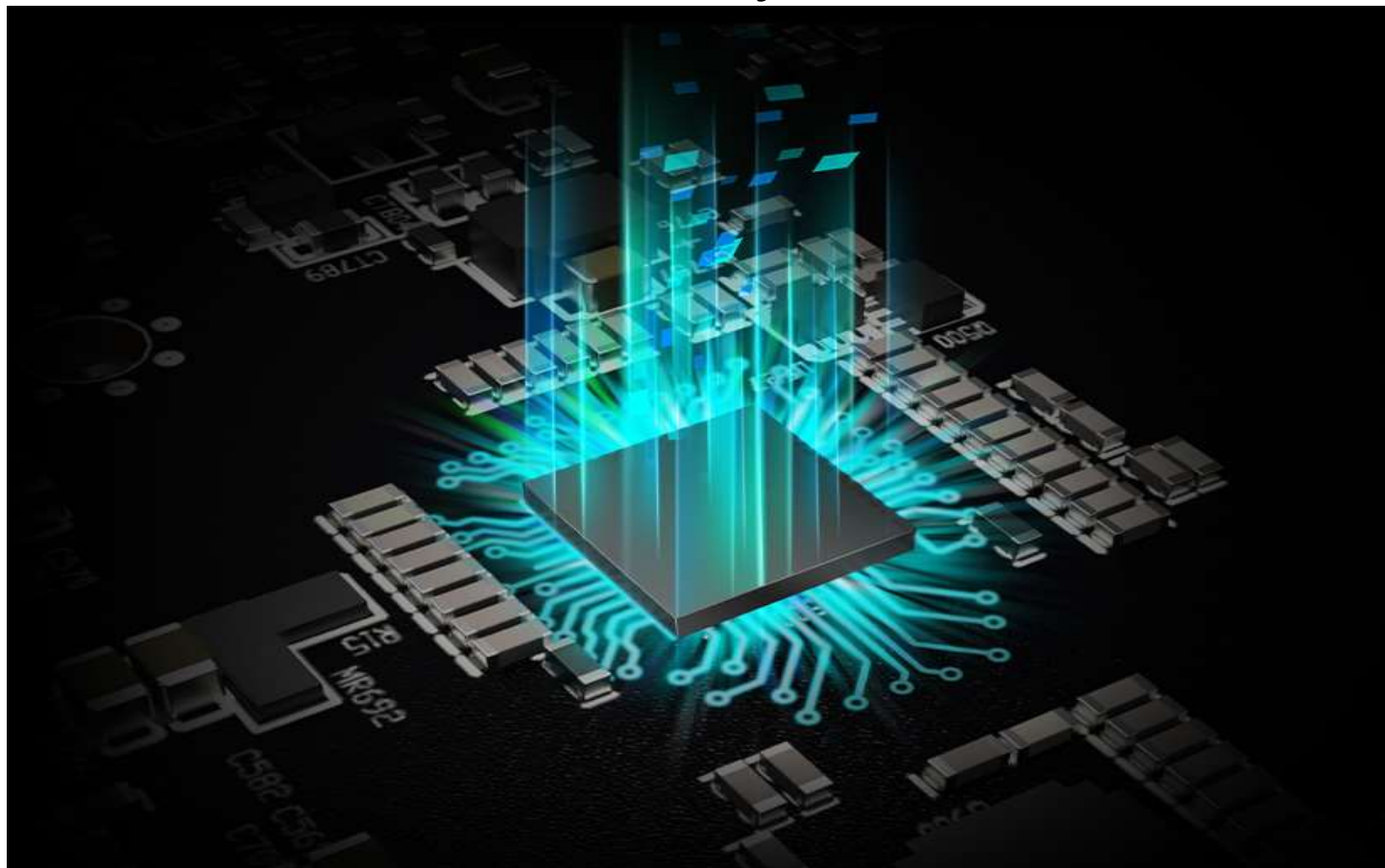
**AMD Radiance Display™ Engine**

**DisplayPort™ 2.1**

**AMD FidelityFX™ Super Resolution**

# AMD Radeon Super Resolution

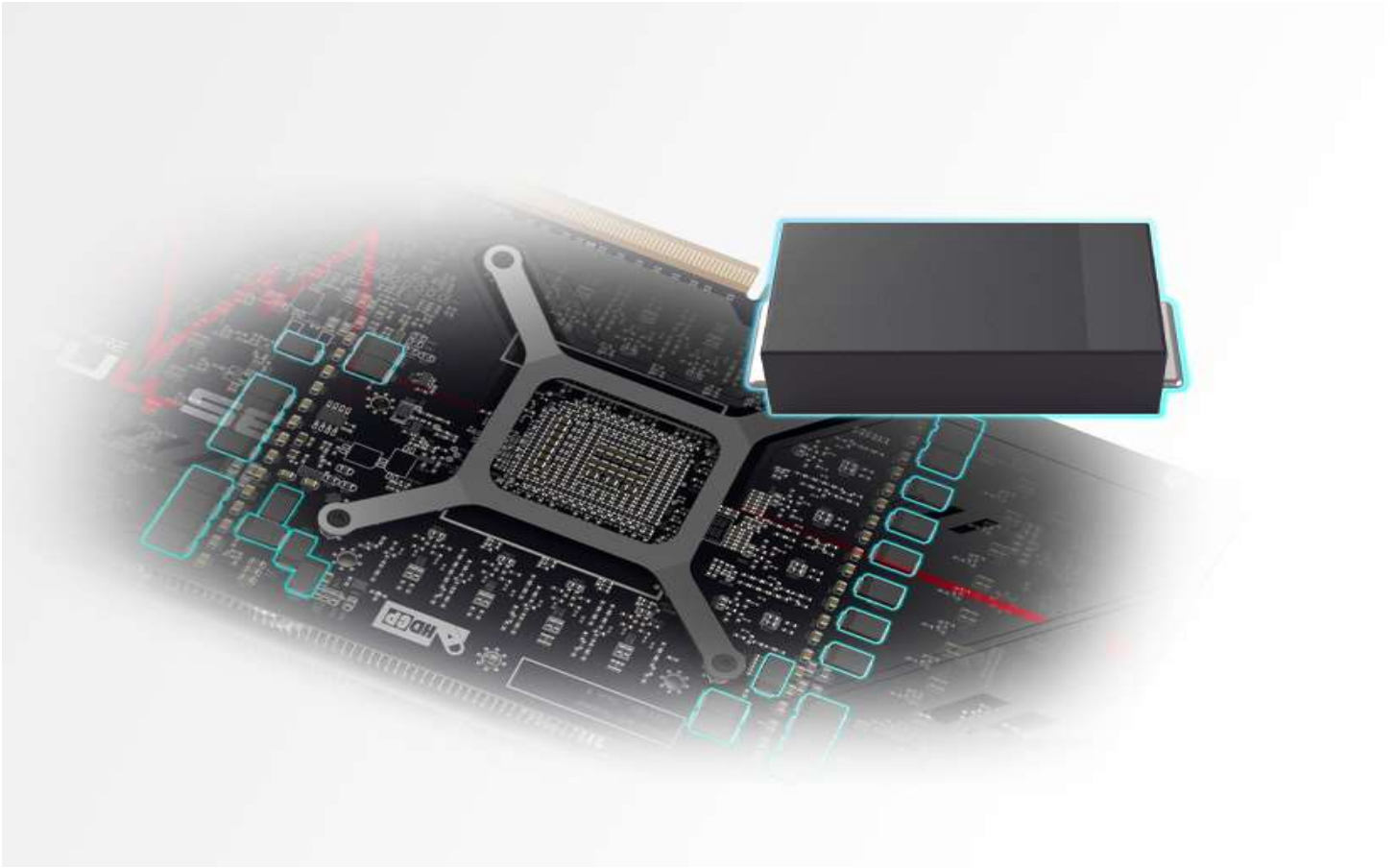
## 4K and Beyond



### Digital Power Design

SAPPHIRE NITRO+ & PULSE AMD Radeon™ RX 7900 Series are designed with digital power which provides accurate power control and excellent power efficiency

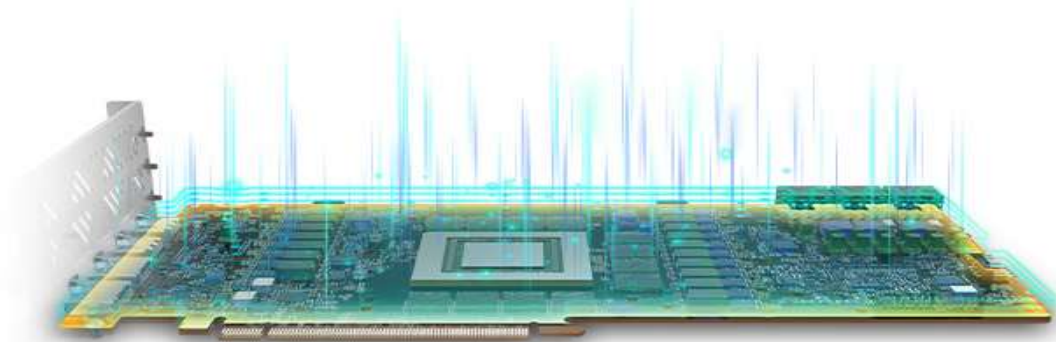
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## Ultra High Performance Conductive Polymer Aluminum Capacitor

The Ultra High Performance Conductive Polymer Aluminum Capacitor has a small PCB foot print but high volumetric capacitance that makes 20-phase power possible on the RX 7900 series graphics card. The capacitor offers stable capacitance at a high frequency and temperature with very low signal noise, ensuring the stability and reliability of the product.

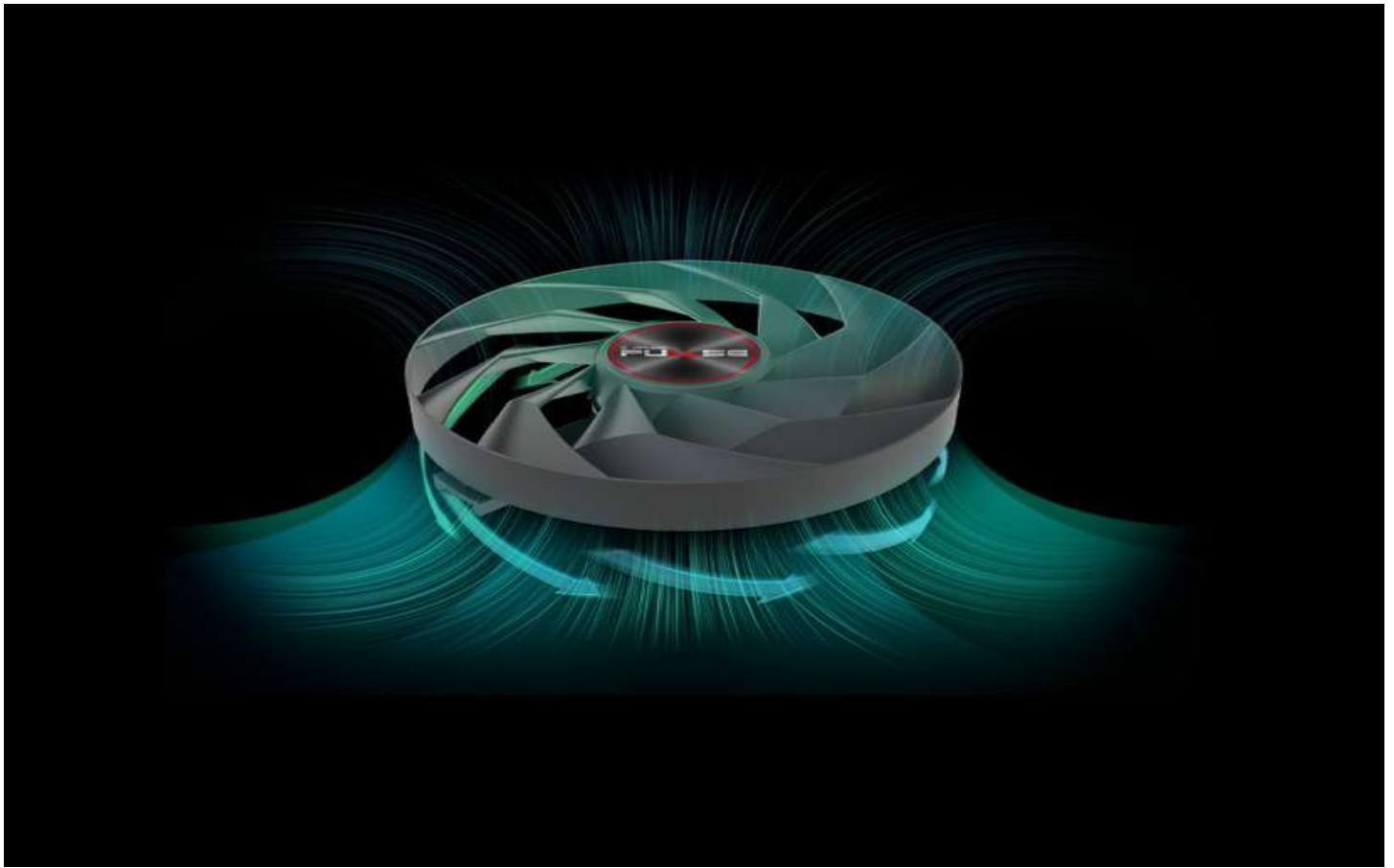
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## High TG Copper PCB

The GPU is mounted on to the high-density 14 layer 2oz Copper and high TG PCB to match the rapid speed, high current and increased power requirement of the GPU and memory to guarantee high stability of the PCB during operation.

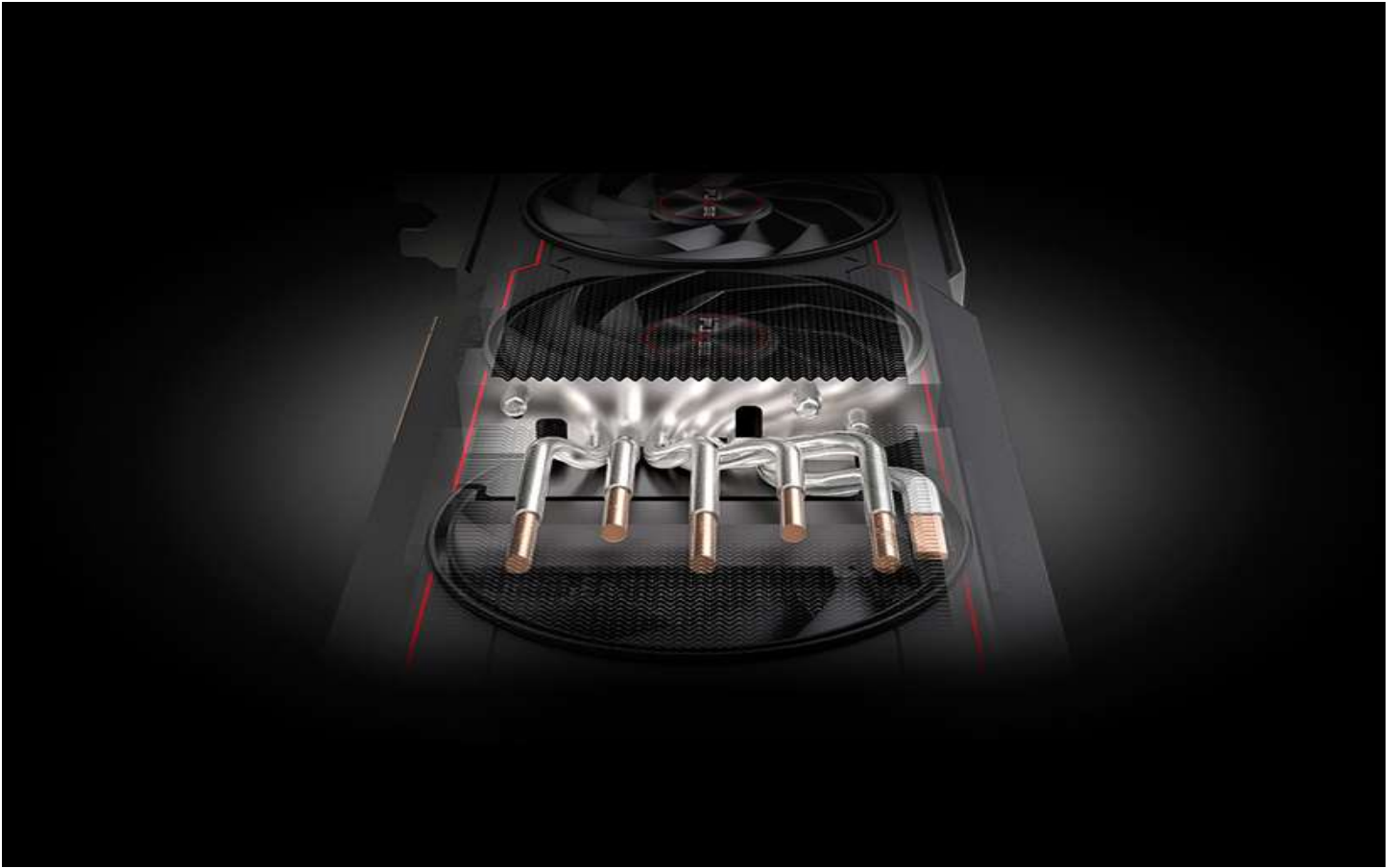
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## Angular Velocity Fan Blade

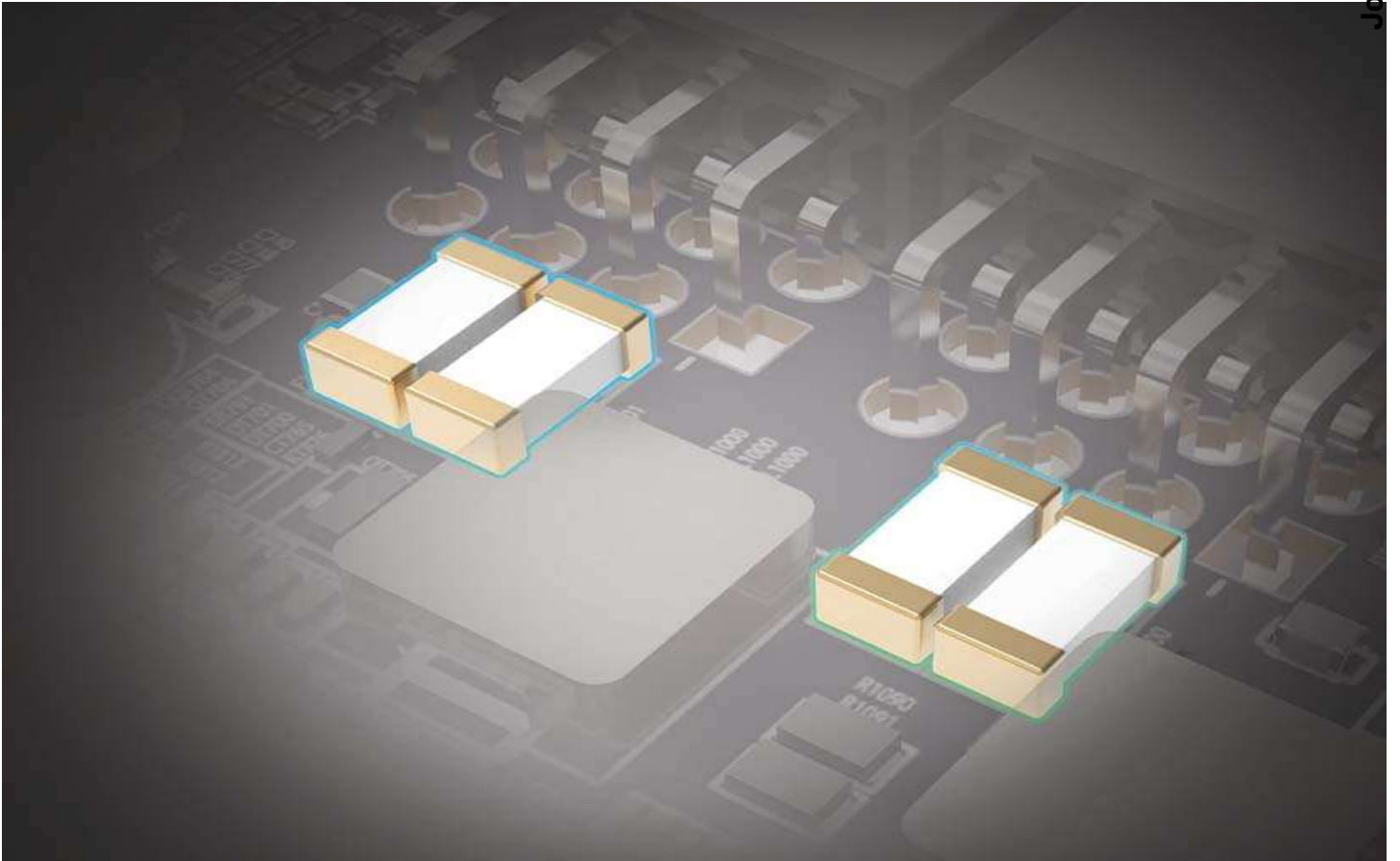
The Angular Velocity Fan Blade provides a double layer of downward air pressure which alongside the air pressure on the outer ring of the Axial fan, results in up to 44% more downward air pressure and up to 19% more airflow for a quieter and cooler operation when compared to the previous generations.

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## Optimized Composite Heatpipe

The composite heatpipes are fine-tuned for each individual cooling design with optimal heat flow, efficiently and evenly spreading out the heat to the entire cooling module.



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## Fuse Protection

In order to protect your card, the SAPHIRE cards have fuse protection built into the circuit of the external PCI-E power connector to keep the components safe.



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## Graphics Card Supporter

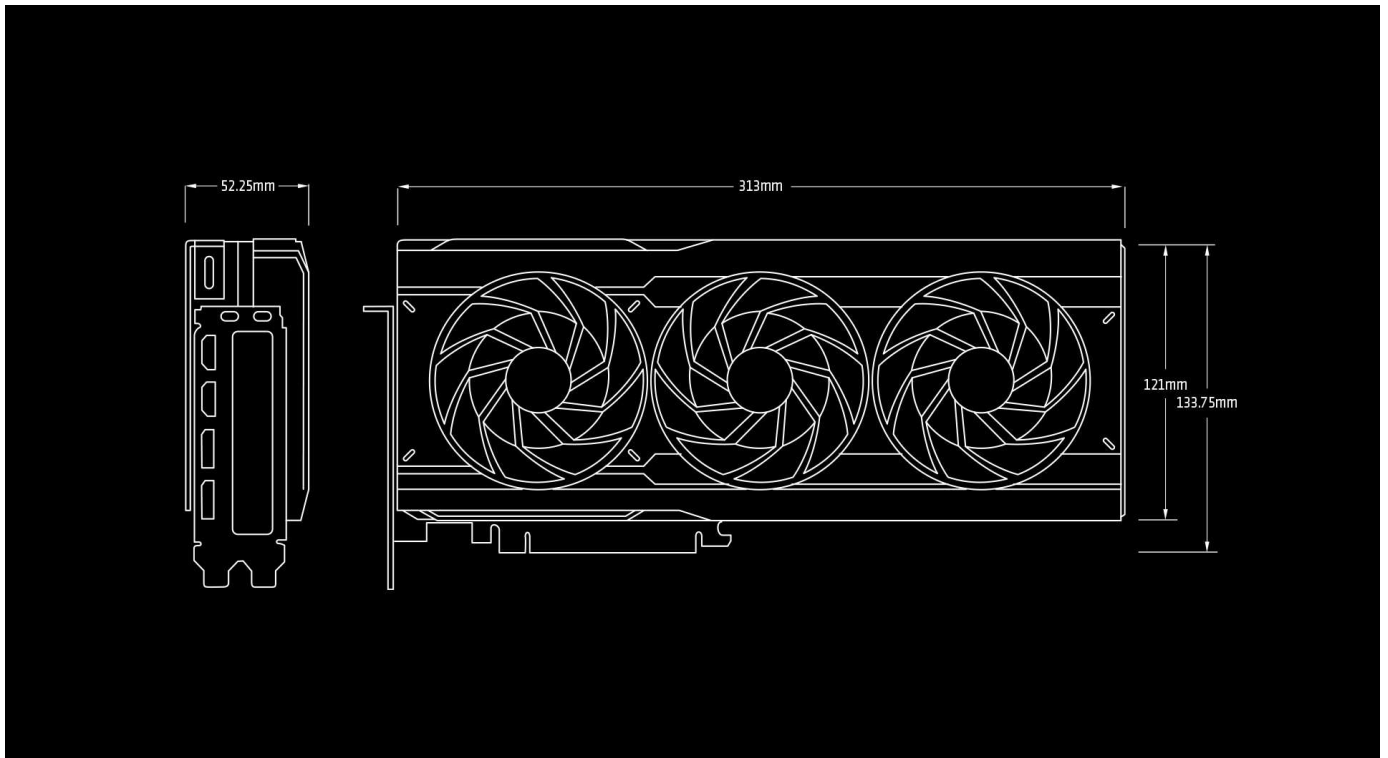
Bundled with a graphics card supporter to keep the graphics card in place on the PCIe Slot.



## Two-Ball Bearing

These feature Dual Ball bearing fans, which have an approximately 85% longer lifespan than sleeve bearings in our tests. The improvements to the fan blades means the solution is up to 10% quieter than the previous generation.

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# AMD RDNA™ 3

The advertisement features a central image of an AMD Radeon graphics card, shown in a perspective view, set against a vibrant, abstract background of red and purple light trails and particle effects. The card is illuminated from within, highlighting its components. To the right of the card, the text 'THE MOST ADVANCED GRAPHICS FOR GAMERS' is displayed in large, bold, white capital letters. Below this, the AMD Radeon logo and 'RX 7000 SERIES' are shown. A smaller image of the Radeon RX 7900 XT 20G GDDR6 card is positioned to the right of the main text.

**THE MOST  
ADVANCED  
GRAPHICS  
FOR GAMERS**

**AMD  
RADEON**  
RX 7000 SERIES

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Experience unprecedented performance, visuals, and efficiency at 4K and beyond with AMD Radeon™ RX 7000 Series graphics cards, the world's first gaming GPUs powered by AMD RDNA™ 3 chiplet technology. Immerse yourself in breathtaking visuals with the pinpoint color accuracy of AMD Radiance Display™ Engine and boost frame rates with AMD FidelityFX™ Super Resolution and Radeon™ Super Resolution upscaling technologies.<sup>1,2</sup> To unlock even more performance, combine AMD Radeon™ RX 7000 Series graphics and compatible AMD Ryzen™ processors to activate AMD smart technologies.<sup>3</sup>

### BREAKTHROUGH PERFORMANCE

AMD Radeon™ RX 7000 Series graphics cards set a new standard for ultra-enthusiast class gaming performance. Featuring advanced AMD RDNA™ 3 compute units, blazing fast clock speeds, and chiplet technology to enable fluid, high-refresh rate gaming experiences. Breakthrough new levels of performance with up to 24GB of GDDR6 memory and 2nd generation AMD Infinity Cache™ to deliver an incredible experience at 4K and beyond.



### BREATHTAKING VISUALS

Discover new levels of fidelity and ultra-fast gameplay with High-Performance Rendering, a combination of compute-based AMD FidelityFX™ features and upscaling technologies, to deliver world-class visuals with remarkable performance. Further immerse yourself with the AMD Radiance Display™ Engine and DisplayPort™ 2.1 to experience up to 68 billion colors at up to 8K 165Hz.



### BETTER TOGETHER

Combine AMD Radeon™ RX 7000 Series graphics cards and AMD Ryzen™ processors to activate AMD smart technologies<sup>3</sup>. You can unleash outstanding performance to give you an edge in the game. Advance your AMD Radeon™ RX 7000 Series GPU with the AMD Software: Adrenalin Edition™ application, featuring bulletproof drivers, for the best PC gaming experiences.



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## UPSIZE PERFORMANCE. MAXIMIZE FIDELITY

AMD FidelityFX™ Super Resolution technology<sup>1</sup> takes upscaling technology to the next level. Providing incredible image quality while boosting framerates in supported games.

AMD Radeon™ Super Resolution (RSR)<sup>2</sup> leverages FSR technology on the driver level, giving you upscaled performance benefits across thousands of games.

**AMD**  
**FidelityFX**  
Super Resolution 2

1. AMD FidelityFX Super Resolution (FSR) 1 and 2 are available on select games and require developer integration. See <https://www.amd.com/en/technologies/fidelityfx-super-resolution> for a list of supported games. AMD FidelityFX Super Resolution is "game dependent" and is supported on the following AMD products: FSR 1.0: AMD Radeon™ RX 6000, RX 5000, RX 500, RX Vega series graphics cards, RX 480, RX 470, RX 460, and all AMD Ryzen™ processors with Radeon™ graphics if the minimum requirements of the game are met. FSR 2.0: AMD Radeon™ RX 6000, RX 5000, RX Vega Series graphics cards, and the Radeon™ RX 590 graphics card if the minimum requirements of the game are met. AMD does not provide technical or warranty support for AMD FidelityFX Super Resolution enablement on other vendors' graphics cards. GD-187.  
2. As of March 2022, Radeon Super Resolution (RSR) is compatible with Radeon RX 5000 series graphics and newer and works with games that support exclusive full-screen mode. AMD Software: Adrenalin Edition 22.3.1 or newer is required. For additional information, visit [www.amd.com/rsr](http://www.amd.com/rsr). GD-197.  
3. AMD smart technologies, including AMD SmartAccess Graphics, SmartAccess Storage, SmartAccess Video, SmartShift Eco, and SmartShift Max may require OEM or developer enablement and are available with select configurations only. Select additional AMD hardware is required. For additional information see <https://www.amd.com/en/graphics/amd-radeon-rx-laptops>. GD-216.  
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# Specifications

#SKU#: 11323-02-20G SAPPHIRE PULSE AMD Radeon™ RX 7900 XT, 20GB, AMD RDNA™ 3

GPU	AMD Radeon™ RX 7900 XT Graphics Card 5nm GPU AMD RDNA™ 3 Architecture
Engine Clock	Boost Clock: Up to 2450 MHz Game Clock: Up to 2075 MHz  Boost Clock is the maximum frequency achievable on the GPU running bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in application and workloads.  Game Clock is the expected GPU clock when running typical gaming applications, set to typical TGP(Total Graphics Power). Actual individual game clock results may vary.

Stream Processors	5376
Compute Units	84 CU (with RT+AI Accelerators)
Infinity Cache	80MB
Ray Accelerators	84
Memory Size/Bus	20GB/320 bit GDDR6
Memory Clock	20 Gbps Effective
Displays	Maximum 4 Displays
Resolution	HDMI™: 7680×4320 DisplayPort 2.1: 7680×4320
Interface	PCI-Express 4.0 x16
Output	2x HDMI 2x DisplayPort
	
BIOS Support	UEFI
Game Index	4K
Sapphire Features	<ul style="list-style-type: none"> <li>Digital Power Design</li> <li>Ultra High Performance Conductive Polymer Aluminum Capacitors</li> <li>Fuse Protection</li> <li>High TG Copper PCB</li> <li>Optimized Composite Heatpipe</li> <li>Tri-X Cooling Technology</li> <li>Intelligent Fan Control</li> <li>Precision Fan Control</li> <li>Metal Backplate</li> <li>Angular Velocity Fan Blade</li> <li>Dual-Ball Bearing Fans</li> <li>TriXX Supported</li> <li>TriXX Boost</li> </ul>
Accessories Bundled	Graphics Card Supporter
AMD Features	<ul style="list-style-type: none"> <li>AMD RDNA™ 3 Architecture</li> <li>84 AMD RDNA™ 3 Compute Units (with RT+AI Accelerators)</li> <li>80MB AMD Infinity Cache™ Technology</li> <li>DisplayPort™ 2.1Support</li> <li>AMD Radiance Display™ Engine</li> <li>20GB GDDR6 on 320-Bit Memory Bus</li> <li>PCI® Express 4.0 ready</li> <li>AMD FidelityFX™ Super Resolution technology</li> <li>Microsoft® DirectX® 12 Ultimate Support</li> <li>Microsoft® DirectStorage Support</li> <li>Vulkan® Optimized</li> <li>AMD Smart Technologies</li> <li>AMD Software: Adrenalin Edition™</li> <li>AMD Noise Suppression</li> <li>AMD Privacy View</li> <li>AMD Radeon™ Super Resolution technology</li> <li>AMD Link</li> <li>AMD FreeSync™ technology</li> </ul>
Cooling	3 Fans
Form Factor	2.7 slot, ATX Dimension: 313(L)X 133,75(W)X 52,67 (H)mm
Power Consumption	331W Total Board Power
OS	Linux®, Windows® 10, and Windows 11, 64-bit operating system required
System Requirement	<ul style="list-style-type: none"> <li>Minimum 750 Watt Power Supply</li> <li>2 x 8-pin Power Connector.</li> <li>PCI Express® based PC is required with one X16 lane graphics slot available on the motherboard.</li> </ul>

Minimum 8GB of system memory, 16GB recommended.

- Specifications provided here are for guidance only. Please check with your regional distributor or dealer for latest specifications.
- Colors of PCB or other components may differ from those illustrated.
- SAPPHIRE reserves the right to update or revise specifications without prior notice.
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SAPPHIRE PULSE AMD Radeon™ RX 7900 XTX Gaming Graphics Card with 24GB GDDR6, AMD RDNA™ 3

BOOST CLOCK Up to 2525 MHz, 24GB/384 bit DDR6. 20 Gbps Effective

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