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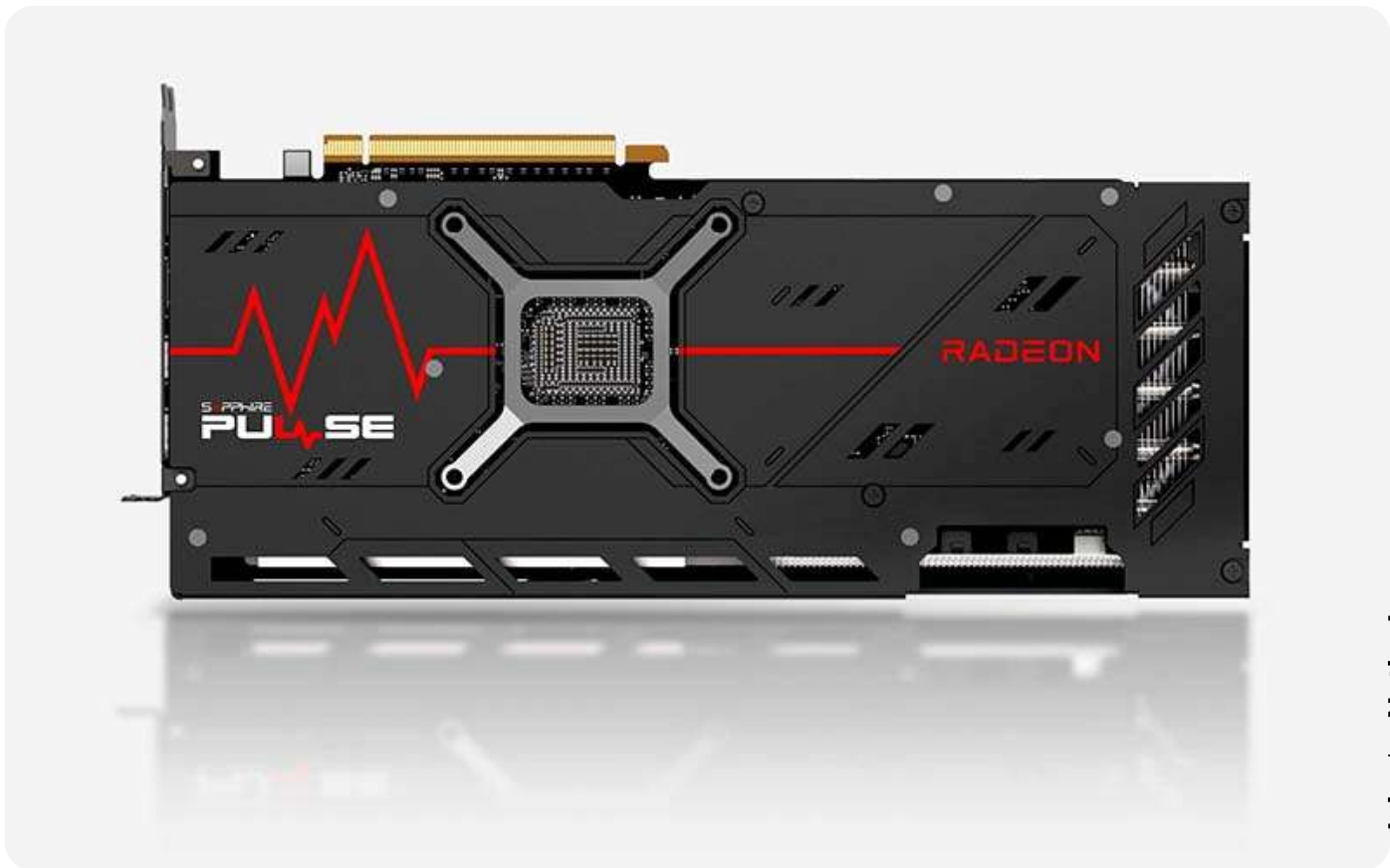
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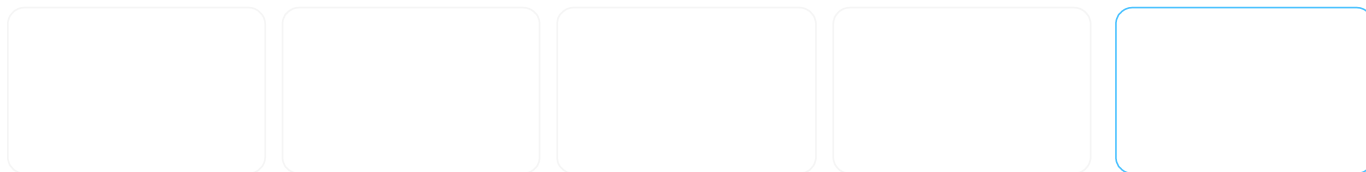
PULSE AMD Radeon™ RX 7900 XT 20GB

- 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

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PULSE AMD Radeon™ RX 7900 XTX 24GB
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AMD RDNA™ 3 Architecture
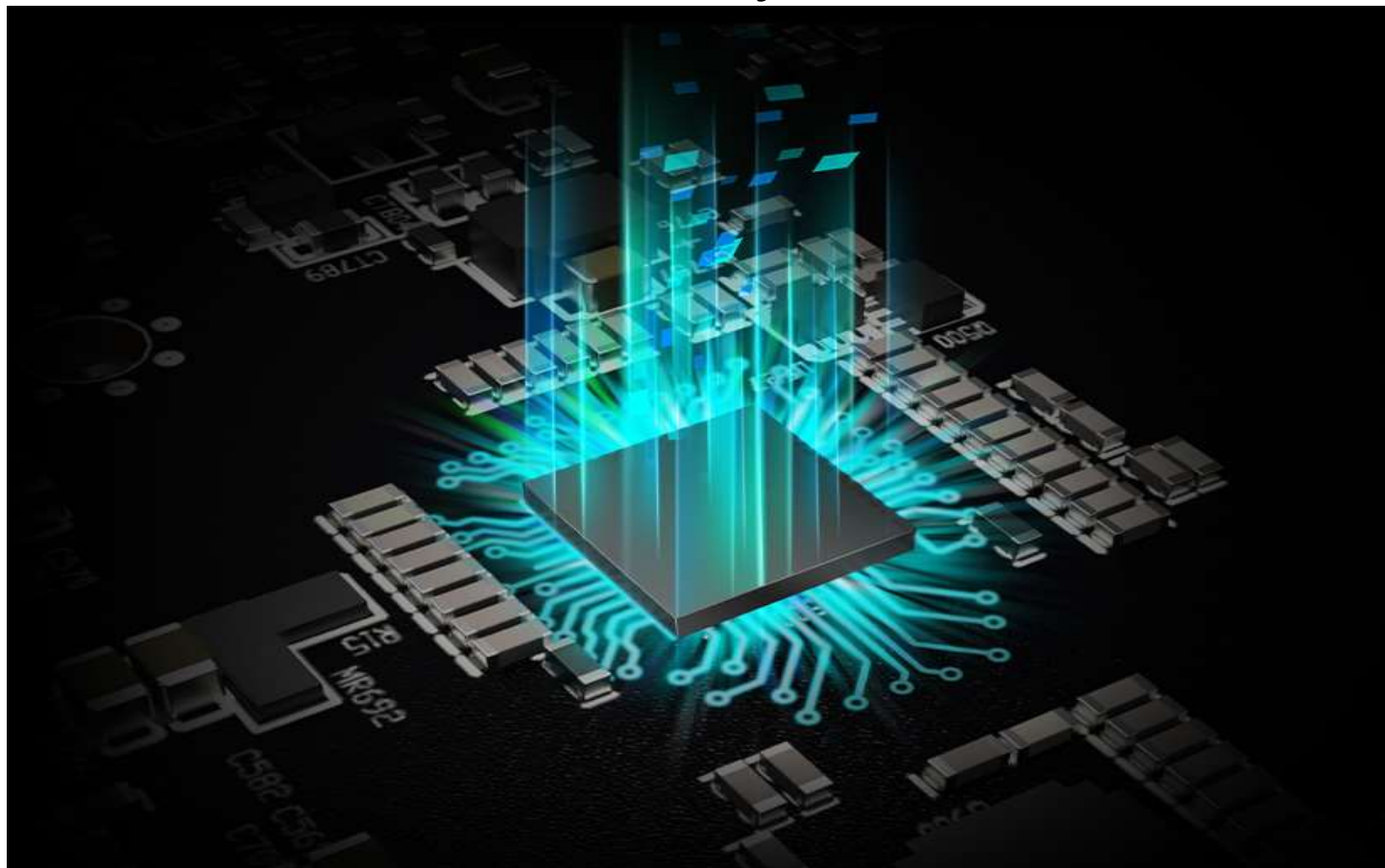

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20GB of GDDR6 memory

AMD Radiance Display™ Engine

DisplayPort™ 2.1

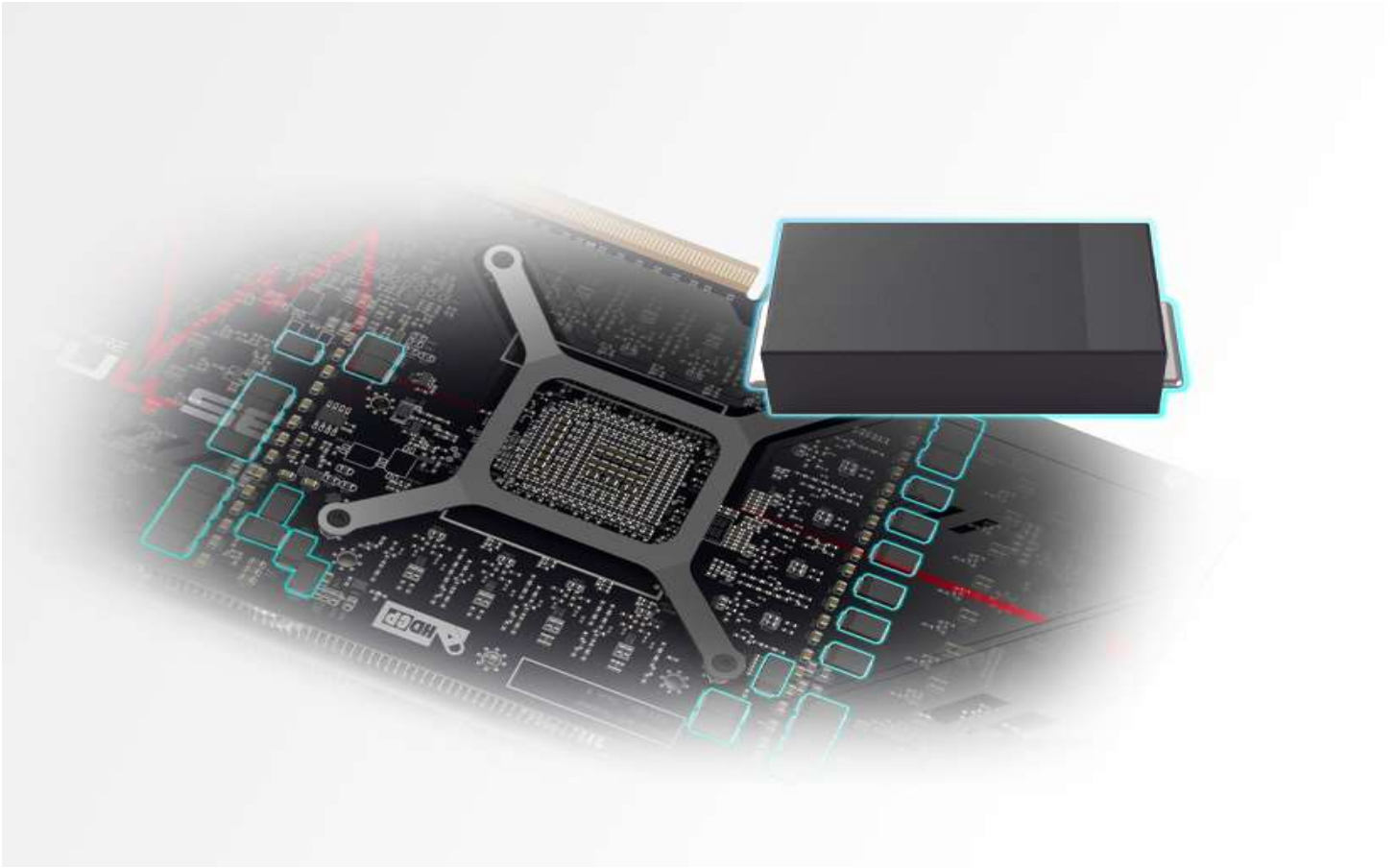## AMD FidelityFX™ Super Resolution

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

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.
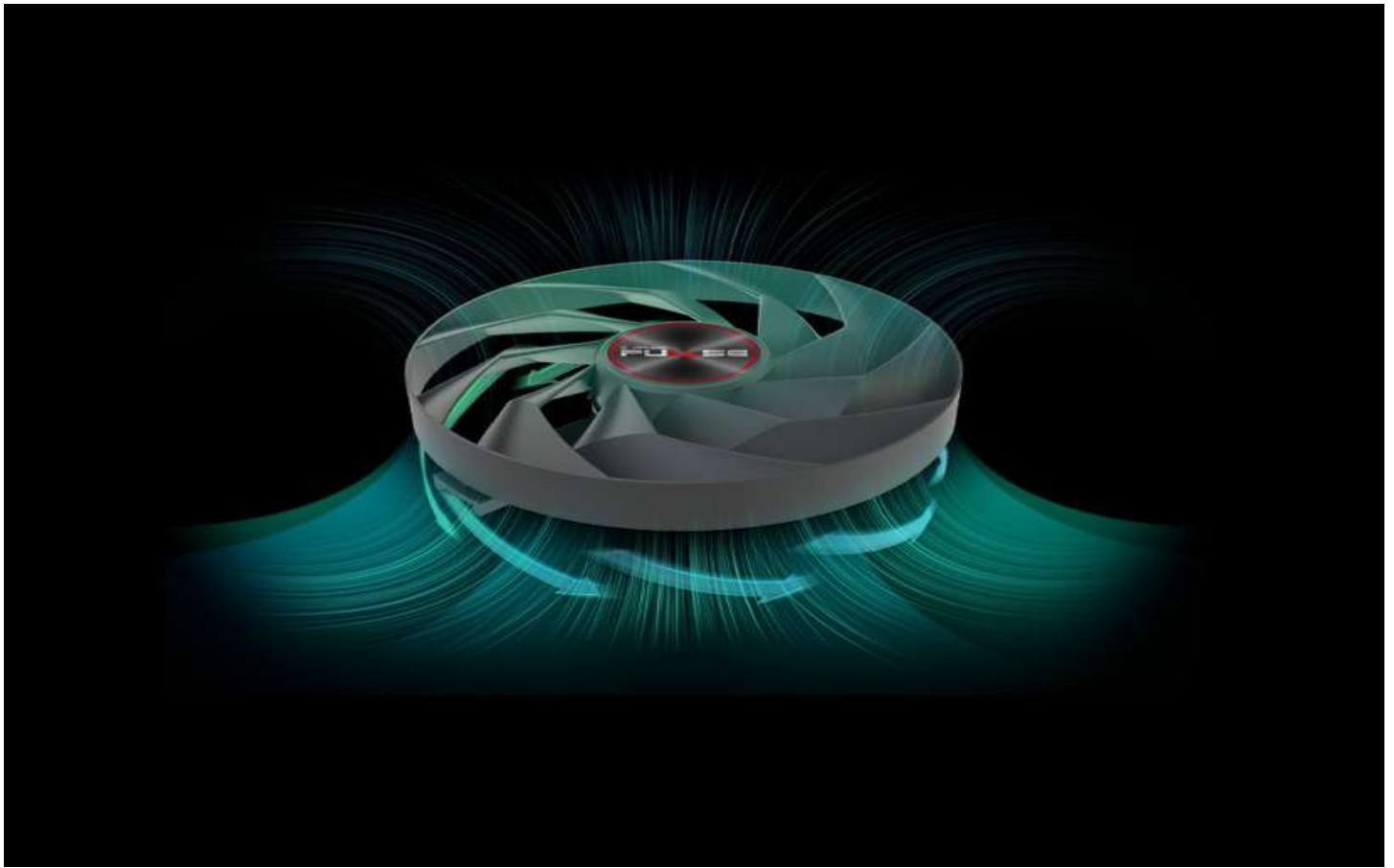
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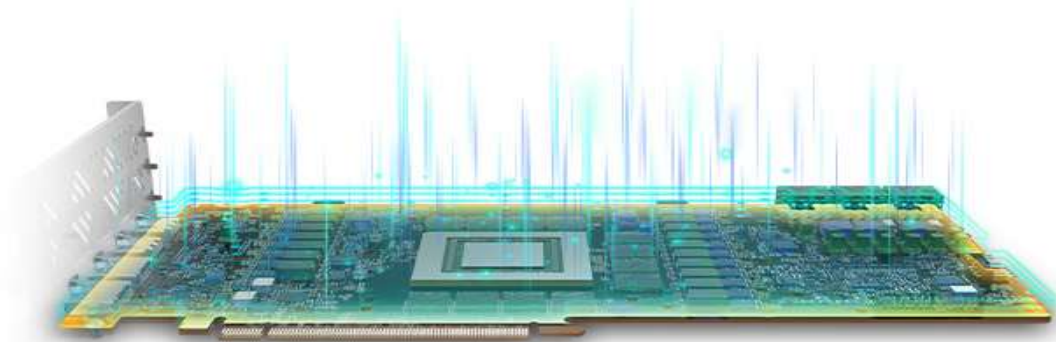
High TG Copper PCB

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.
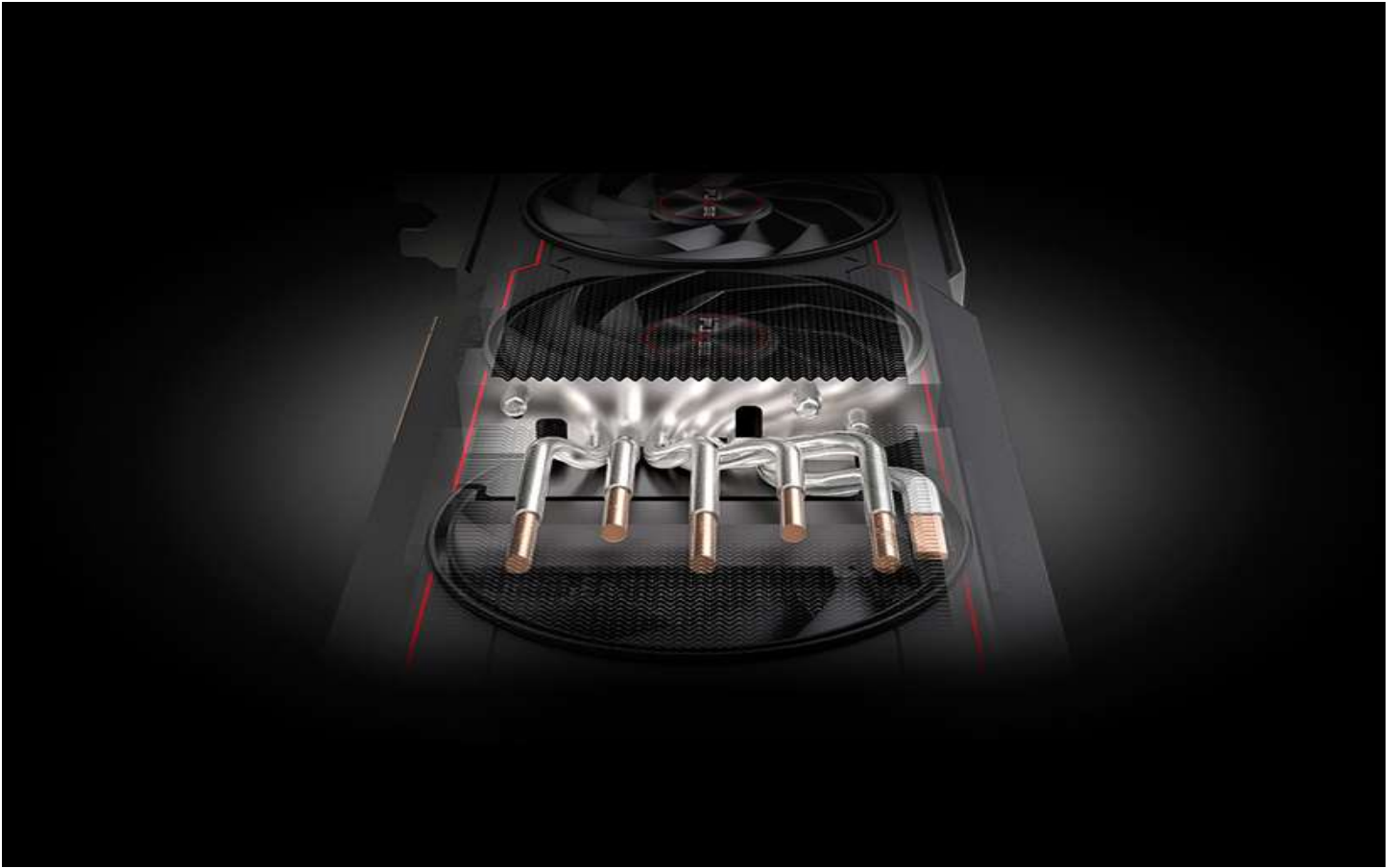
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Angular Velocity Fan Blade

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.
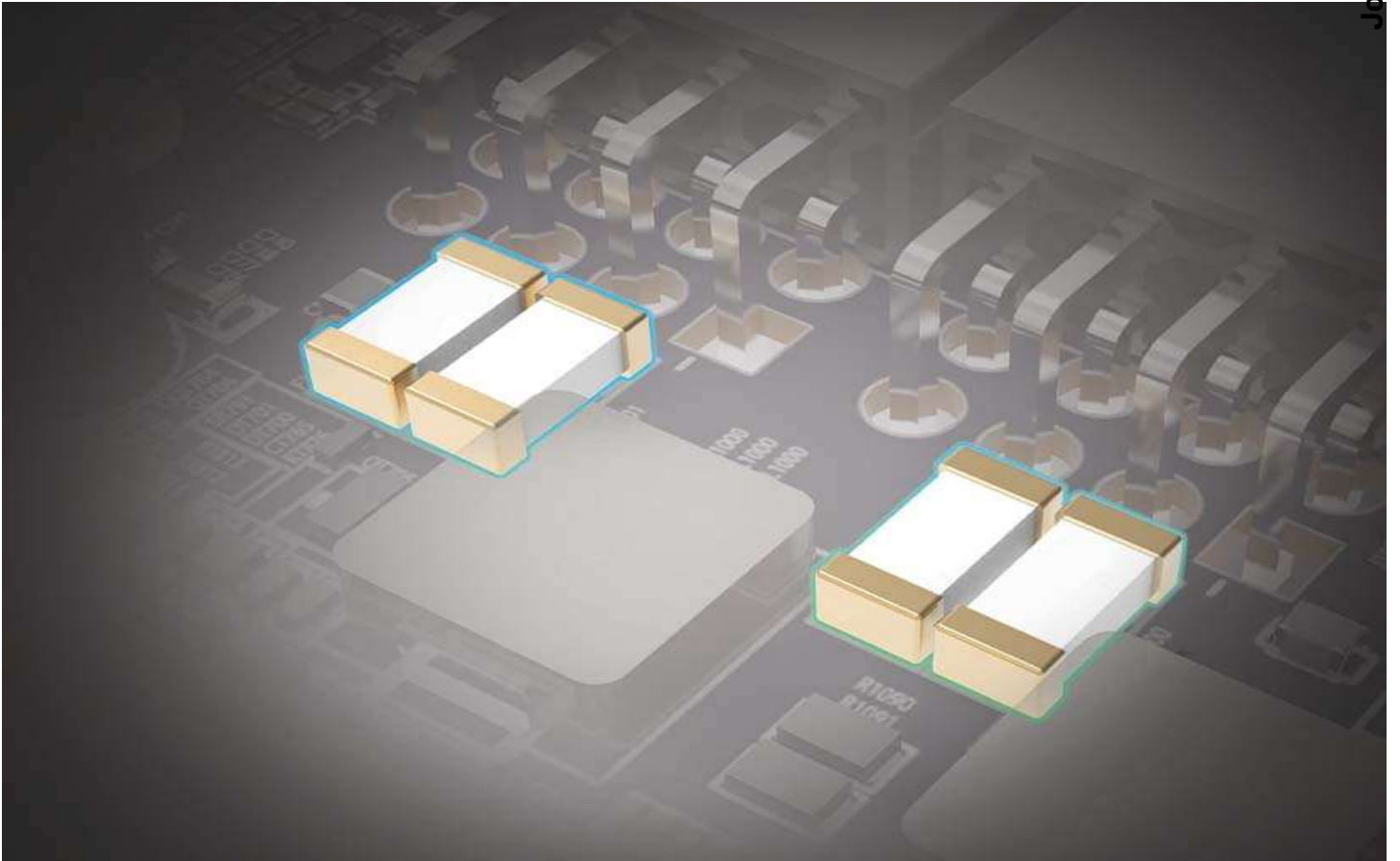
Fuse Protection

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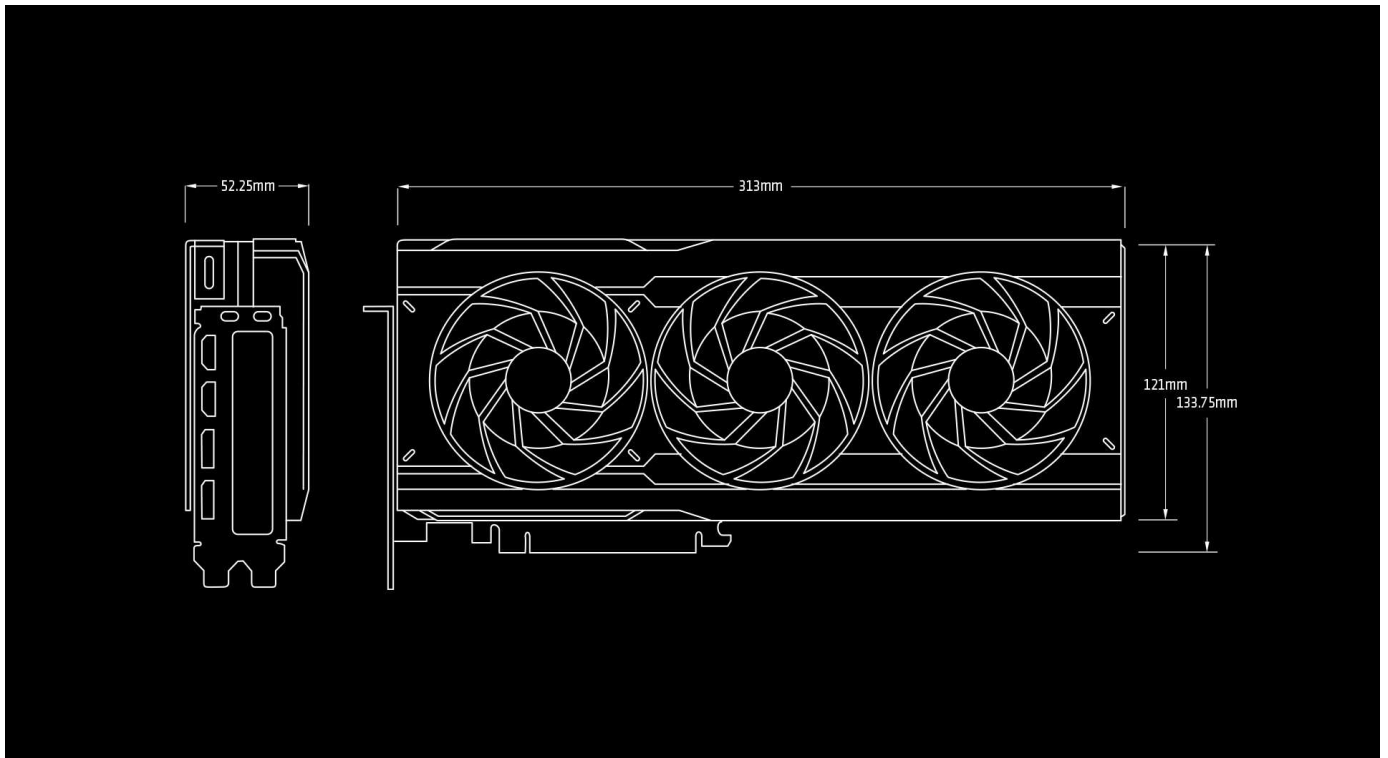

Graphics Card Supporter

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

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.[1,2] To unlock even more performance, combine AMD Radeon™ RX 7000 Series graphics and compatible AMD Ryzen™ processors to activate AMD smart technologies.[3]

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 FideltyFX™ 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[3]. 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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www.sapphiretech.com/en/software)
Download the Latest TriXX

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 sustainabilty 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	Digital Power Design Ultra High Performance Conductive Polymer Aluminum Capacitors Fuse Protection High TG Copper PCB Optimized Composite Heatpipe Tri-X Cooling Technology Intelligent Fan Control Precision Fan Control Metal Backplate Angular Velocity Fan Blade Dual-Ball Bearing Fans TriXX Supported TriXX Boost
Accessories Bundled	Graphics Card Supporter
AMD Features	AMD RDNA™ 3 Architecture 84 AMD RDNA™ 3 Compute Units (with RT+AI Accelerators) 80MB AMD Infinity Cache™ Technology DisplayPort™ 2.1Support AMD Radiance Display™ Engine 20GB GDDR6 on 320-Bit Memory Bus PCI® Express 4.0 ready AMD FidelityFX™ Super Resolution technology Microsoft® DirectX® 12 Ultimate Support Microsoft® DirectStorage Support Vulkan® Optimized AMD Smart Technologies AMD Software: Adrenalin Edition™ AMD Noise Suppression AMD Privacy View AMD Radeon™ Super Resolution technology AMD Link AMD FreeSync™ technology
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	Minimum 750 Watt Power Supply 2 x 8-pin Power Connector. PCI Express® based PC is required with one X16 lane graphics slot available on the motherboard.

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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.
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HIGH DEFINITION MULTIMEDIA INTERFACE

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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