

# AMD Radeon™ RX 7900 GRE Graphics Card

## Game. Stream. Advance.

*The Ultimate future-ready 16GB 1440p Graphics Card featuring next-generation technologies.*

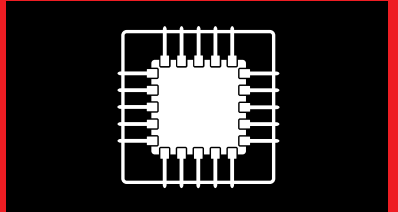
### TARGET AUDIENCE



**GAMERS WHO WANT  
BREAKTHROUGH PERFORMANCE AT  
1440P AND EXPERIENCE 4K**



**STREAMERS & CREATORS WHO WANT  
THE HIGHEST QUALITY VIDEO CONTENT**



**ENTHUSIASTS WHO WANT THE LATEST  
FUTURE-READY TECHNOLOGIES**

### SELL IT IN 60 SECONDS

#### BREAKTHROUGH GAMING PERFORMANCE

The Radeon™ RX 7900 GRE graphics card is ready to render the games of today and tomorrow at max settings with 16GB of GDDR6 memory. Featuring 80 unified AMD RDNA™ 3 compute units, harness the power of advanced AI technology and raytracing accelerators to enable an incredible gaming experience at 1440p and 4K.

#### A NEW LEVEL OF PERFORMANCE

Push new boundaries with 80 advanced AMD RDNA™ 3 compute units, featuring 2nd generation raytracing accelerators for incredible performance when enabling raytracing in supported titles. AMD RDNA™ 3 architecture now features new AI accelerators for data inference and AI computation.

#### ULTRA-HIGH-DEFINITION ENCODING

The AMD Radeon™ RX 7900 GRE graphics card features a new encode/decode media engine for ultimate performance. Unlock new multi-media experiences with full AV1 encode/decode support<sup>1</sup>, wide color gamut, and high-dynamic range enhancements.

#### IMPROVED STREAMING PERFORMANCE

Deliver enhanced visual quality to your audience when streaming and recording using improved media encoders, while YOU focus on your best game. Xilinx™ AI technology and content adaptive machine learning technology has also been integrated into the AMD Media Framework to enable better looking and crisper text when streaming at low bitrates and resolutions.

#### FUTURE-READY UPGRADES

The Radeon™ RX 7900 GRE graphics card features support for the latest DisplayPort™ 2.1, HDMI 2.1a, and USB Type-C connections for the most flexibility when connecting to your display. With support for the latest display standards and the highest resolutions and refresh rates, the Radeon™ RX 7900 GRE graphics card is ready for the next big leaps in display technology.

#### CHANGE THE WAY YOU GAME

Ryzen™ processors and Radeon™ graphics unite, with AMD Smart Access Memory™ technology. AMD Smart Access Memory™ technology provides AMD Ryzen™ processors with full access to AMD Radeon™ graphics card memory at once, allowing for faster data transfers between the two.

### PRODUCT SPECIFICATIONS

	GDDR6	COMPUTE UNITS	GAME CLOCK	BOOST CLOCK <sup>2</sup> (UP TO)	AMD INFINITY CACHE™ TECHNOLOGY	TOTAL BOARD POWER
AMD Radeon™ RX 7900 GRE	16GB	80 2nd Gen RT + AI	1.88 GHz	2.25GHz	64MB 2nd GENERATION	260W

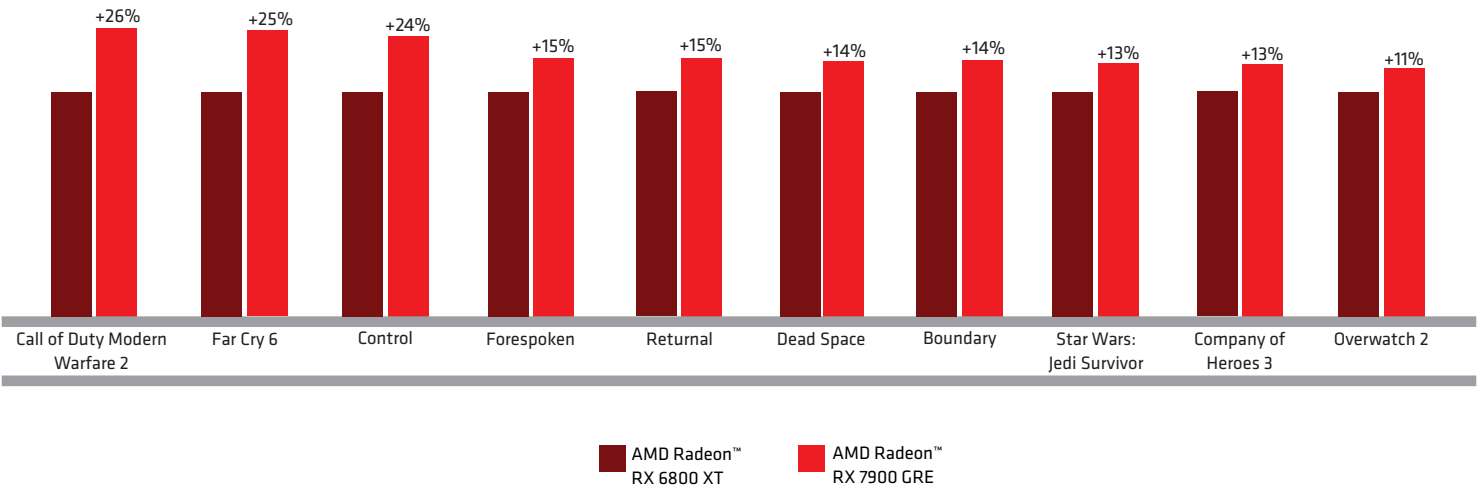
ON AVERAGE **13%** FASTER<sup>3</sup>

across select titles with AMD Radeon™ RX 7900 GRE (16GB) vs. RX 6800 XT (16GB).  
FPS, 1440p Max Settings



## GAMING PERFORMANCE - GENERATIONAL<sup>3</sup>

FPS, 1440p Max Settings



## GEN-TO-GEN COMPARE

AMD RADEON™ RX 7900 GRE vs AMD RADEON™ RX 6800 XT

	AMD RADEON™ RX 6800 XT	AMD RADEON™ RX 7900 GRE
COMPUTE UNITS & RAY ACCELERATORS	72 1st Gen RT	80 2nd Gen RT + AI
STREAM PROCESSORS	4608	5120
GAME CLOCK	2015 MHZ	1880 MHZ
BOOST CLOCK <sup>2</sup> (UP TO)	2250 MHZ	2245 MHZ
GDDR6 MEMORY	16 GB	16 GB

	AMD RADEON™ RX 6800 XT	AMD RADEON™ RX 7900 GRE
MEMORY BUS	256-bit	256-bit
AMD INFINITY CACHE™ TECHNOLOGY	128 MB (1st Gen.)	64 MB (2nd Gen.)
TOTAL BOARD POWER	300 W	260 W
DISPLAYPORT™	1.4a	2.1*
AV1 HW. ENCODING <sup>1</sup>	NO	YES
MEMORY SPEED	16 Gbps	18 Gbps

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1. Video codec acceleration (including at least the HEVC (H.265), H.264, VP9, and AV1 codecs) is subject to and not operable without inclusion/installation of compatible media players. GD-176  
2. Boost Clock Frequency is the maximum frequency achievable on the GPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads. GD-151  
3. Testing done by AMD performance labs on July 6, 2023 on a test system configured with Ryzen 9 7900X CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro, AMD Radeon RX 7900 GRE (AMD Software: Adrenalin Edition v. 23.7.1) with AMD Smart Access Memory on vs. a similarly configured system with a Radeon RX 6800 XT (AMD Software: Adrenalin Edition v. 23.5.1), to measure FPS in: Assassin's Creed Valhalla (Ultra High, DX12), Boundary (High, DX12), Call of Duty Modern Warfare 2 (Extreme, DX12), Company of Heroes 3 (Ultra, DX12), Control (High, DX12), Cyberpunk 2077 (Ultra, DX12), Dead Island 2 (Ultra, DX12), Dead Space (Ultra, DX12, Raytracing), Dead Space (Ultra, DX12), Dying Light 2 (High, DX12), Far Cry 6 (Ultra, DX12, Raytracing), Far Cry 6 (Ultra, DX12), Forspoken (Ultra High, DX12, Raytracing), Forspoken (Ultra High, DX12), Hogwarts Legacy (Ultra, DX12), Overwatch 2 (Epic, DX11), Red Dead Redemption 2 (Ultra, Best API), Resident Evil 4 (Max RT, DX12), Resident Evil 4 (Max, DX12), Returnal (Epic, DX12, Raytracing), Returnal (Epic, DX12), Star Wars: Jedi Survivor (Epic, DX12), The Callisto Protocol (Ultra, DX12, Raytracing), The Callisto Protocol (Ultra, DX12), The Witcher 3 (Ultra+, DX12), and Tom Clancy's Rainbow Six Siege (Ultra, DX11) at 1440p. System Manufacturers may vary configurations, yielding different results. RX-961