

AMD Radeon™ RX 7800 XT Graphics Card

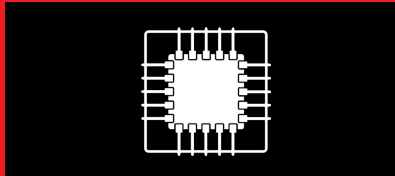
Game. Stream. Advance.

The ultimate 1440p card, with 16GB to jump into 4K, featuring next generation technologies

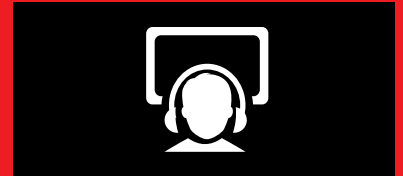
TARGET AUDIENCE



GAMERS UPGRADING TO 1440P
GAMING DISPLAYS



GAMERS NEEDING MASSIVE
MEMORY FOR THE NEXT
BLOCKBUSTER TITLES



STREAMERS AND GAMERS WHO
NEED THE ULTIMATE PLUG-AND-
PLAY SOLUTION

SELL IT IN 60 SECONDS

GAME

- Ultimate graphics cards for 1440p, the fastest-growing gaming display segment.¹
- Breakthrough AAA gaming performance ready to render the games of today and tomorrow at max settings with 12GB of GDDR6 memory.
- 60 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.
- AMD FidelityFX™ Super Resolution (AMD FSR) technology provides amazing performance in more than 300 current and upcoming games.²

STREAM

- Ultra-high-definition encoding delivers enhanced visual quality to your audience when streaming and recording using improved media encoders.
- Improved streaming quality and performance unlocks new multi-media experiences with full AV1 encode/decode support, wide color for amute, and high-dynamic range enhancements.³
- Clear and crisp communication. AMD Noise Suppression helps reduce background audio noise from your surrounding environment, offering greater clarity and concentration.⁴
- AV1 Encoding fully integrated in OBS, YouTube, and AMD Software to enable you to jump into streaming.³

ADVANCE

- Edit, render, and visualize with no restraints whether it be professional video editing, graphic design, or 3D modeling, the possibilities are endless.
- AMD Ryzen™ processors and Radeon™ graphics unite to harness the full potential of AMD Smart Technologies.⁵
 - AMD Smart Access Memory™ technology⁶
 - AMD SmartAccess Video technology
- With AMD Software: Adrenalin Edition™ application have total control over graphics card and processor. Designed to deliver fast and responsive gaming, incredible visuals, and an immersive experience.
- Custom overclocking controls built directly in.
- Next-level performance made easy. Achieve elevated performance and minimized input lag when you enable AMD HYPR-RX technology.⁷

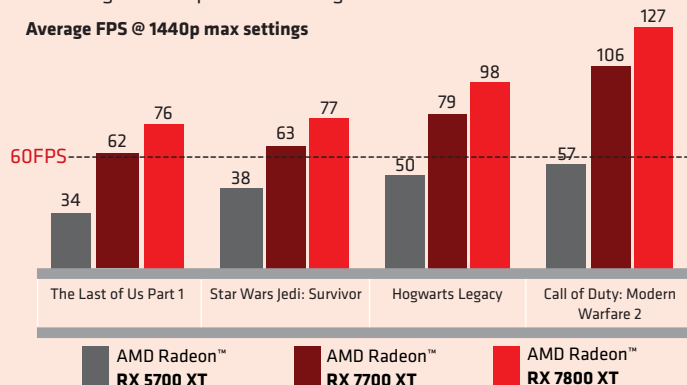
PRODUCT SPECIFICATIONS

	GDDR6	AMD RDNA™ 3 COMPUTE UNITS	GAME CLOCK ⁸	BOOST CLOCK (UP TO)	2 ND GENERATION INFINITY CACHE™	TOTAL BOARD POWER
AMD Radeon™ RX 7800 XT	16GB	60	2124 MHz	2430 MHz	64MB	263W

THE UPGRADE YOU WAITED FOR

An average of 60+ fps in the latest games⁹

Average FPS @ 1440p max settings



AMD HYPER-RX

Max performance made easy^{7,11}

AMD Radeon RX 7800 XT | Average 1440 FPS and Latency

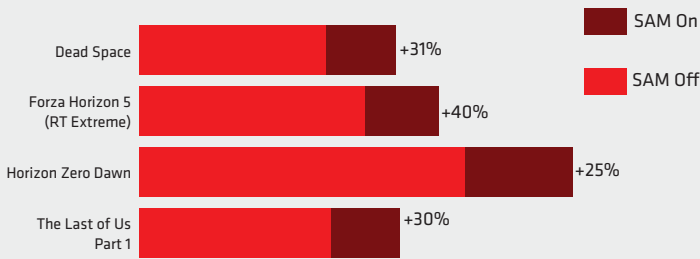
	Performance (Higher is better)		Response Time (Lower is better)	
Fortnite EPIC	82FPS	122FPS	25ms	55ms
Apex Legends MAX	232FPS	289FPS	10ms	17ms

Hyper-RX Off
Hyper-RX On

SMARTER ON AMD

AMD SMARTACCESS MEMORY⁶

Average FPS | 1080P max settings¹²



AI EXPERIENCES

NOD.AI STABLE DIFFUSION

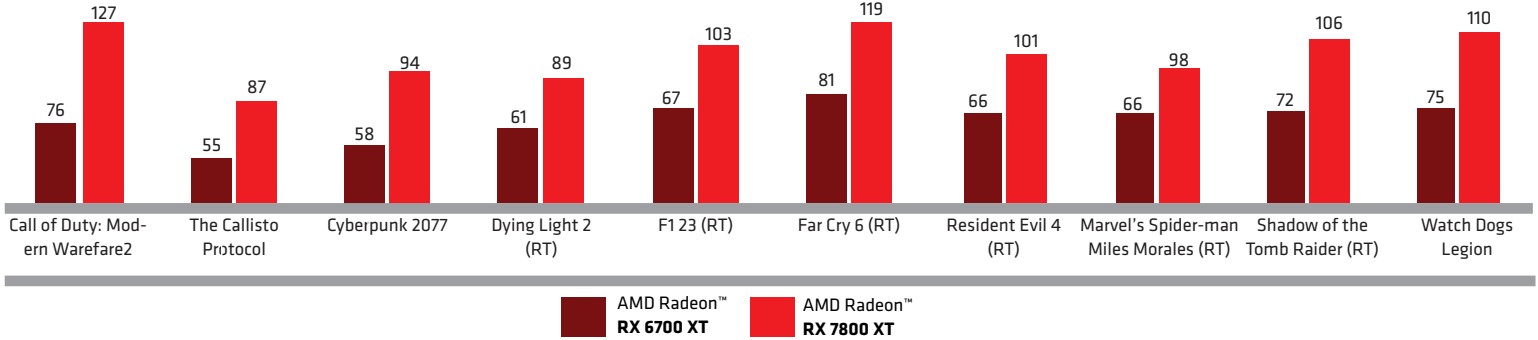
FASTER AI PROCESSING, READY FOR UPCOMING AI APPLICATIONS¹³

AMD Radeon RX 7800 XT vs RX 6950 XT

OVER **2X** performance on average

STEP INTO THE NEXT GENERATION OF 1440P GAMING GPUS

AVERAGE FPS @ MAX SETTINGS¹⁴



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1. Based on Steam Hardware Survey "Primary Display Resolution" from June 2022 to June 2023.
2. GD-187A AMD FidelityFX Super Resolution (FSR) versions 1, 2, and 3 are available on select games which require game developer integration and are supported on select AMD products. AMD does not provide technical or warranty support for AMD FidelityFX Super Resolution enablement on other vendors' graphics cards. See <https://www.amd.com/en/technologies/fidelityfx-super-resolution> for additional information. GD-187A
3. GD-176 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
4. GD-213 AMD Noise Suppression works on AMD Ryzen™ 6000 Series processors with integrated graphics and newer, and AMD Radeon™ RX 6000 Series desktop graphics and newer. Noise Suppression requires AMD Software: Adrenalin Edition™ 22.71 and newer, and may not install on systems equipped with Realtek ACP-based ANR. GD-213
5. GD-216 AMD smart technologies, including AMD SmartAccess Graphics, SmartAccess Storage, SmartAccess Video, SmartShift Eco, SmartShift Max, and SmartShift RSR 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
6. GD-178 Smart Access Memory technology is compatible with AMD Radeon RX 5000 Series GPUs or later, Ryzen 3000 Series CPUs or later (excluding Ryzen 5 3400G and Ryzen 3 3200G CPUs), AMD desktop kits (4800S Series and later), and an AMD 500 Series motherboard or later with the latest BIOS update available at the vendor website. OEM support is required. For additional information see <https://www.amd.com/en/technologies/smart-access-memory>. GD-178
7. GD-225 AMD HYPR-RX works on the AMD Radeon™ RX 7000 Series GPUs and newer or the Ryzen 7040 Series APUs with integrated RDNA 3 graphics and newer. AMD HYPR-RX allows various features within AMD Software interoperate, working at the same time, including Radeon Super Resolution, FidelityFX Super Resolution, Radeon Anti-Lag, Radeon Anti-Lag+, Radeon Boost and Radeon RT Boost, where applicable to select titles. GD-225
8. GD-147 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. GD-147
9. RX-983 Testing conducted by AMD as of August 15th, 2023, for AMD Radeon RX 5700 XT (driver 23.7.2), RX 7700 XT (driver 23.20.01), RX 7800 XT (driver 23.20.01), on test systems configured with Ryzen™ 9 7900X, 32GB DDR5, and Windows 11 Pro, versus a similarly configured system with GeForce RTX 2070 Super (536.67) on the following games at 1440p max settings: The Last of Us Part I; Hogwarts Legacy; Star Wars Jedi: Survivor; and Call of Duty: Modern Warfare 2. Performance may vary. System manufacturers may vary configurations, yielding different results. RX-983
10. RX-989 Testing done by AMD performance labs August 15, 2023 for AMD Radeon RX 7700 XT (driver 23.20.01), RX 7800 XT (driver 23.20.01), RX 6700 XT (driver 23.10.23), on test systems configured with Ryzen™ 9 7900X, 32GB DDR5, and Windows 11 Pro to measure FPS in the following games at 1440p, max settings with raytracing (RT) enabled when specified: Call of Duty: Modern Warfare 2; Cyberpunk 2077; Hogwarts Legacy; Watch Dogs Legion; Red Dead Redemption 2; The Last of Us Part I; Resident Evil 4 (RT High); STAR WARS Jedi: Survivor; Far Cry 6 (RT On); Forspoken; Forza Horizon 5 (RT Extreme); The Callisto Protocol; Dying Light 2 (RT On); Shadow of the Tomb Raider; Spider-Man Miles Morales (RT Very High); and F1 23 (RT Med). System Manufacturers may vary configurations, yielding different results. Performance-per-dollar is calculated by taking the average scores of the games above compared against the SEP price on respective launch dates. RX-989
11. RS-588 Testing conducted by AMD as of August 11th, 2023, with a Ryzen™ 9 7950X3D, Radeon RX 7800XT, 32GB DDR5, and Windows 11 Pro, with AMD Software: Adrenalin Edition 23.10.01.05-23.0804a with HYPR-RX ON/OFF on various titles including Shadow of the Tomb Raider, Cyberpunk 2077, Fortnite, and Apex Legends. Game tested at 1440p resolution. Performance may vary. System manufacturers may vary configurations, yielding different results. RS-588
12. RX-986 Testing done by AMD performance labs Aug 11, 2023, on a test system configured with an AMD Ryzen 9 7900X CPU, AMD Radeon RX 7800 XT graphics card (Driver 23.20.01.05-23.0804a), 32 GB DDR5-6000 Memory, and Windows 11 Pro. Testing Dead Space, Forza Horizon 5 (RT Extreme), Horizon Zero Dawn, and The Last of Us: Part 1 at 1080p, Max settings gaming performance with AMD Smart Access Memory technology ON vs OFF. System manufacturers may vary configurations, yielding different results. Performance may vary. RX-986
13. RX-988 Testing done by AMD performance labs August 15, 2023, for AMD Radeon RX 7800 XT (driver 23.20.01) versus RX 6950 XT (driver 23.20.01) graphics on test systems configured with a Ryzen 9 7900X CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro to measure NOD.AI Stable Diffusion text-to-image generation model average performances for five example prompts. System Manufacturers may vary configurations, yielding different results. RX-988
14. Testing done by AMD performance labs August 15, 2023 for AMD Radeon RX 7700 XT (driver 23.20.01), RX 7800 XT (driver 23.20.01), RX 6700 XT (driver 23.10.23), on test systems configured with Ryzen™ 9 7900X, 32GB DDR5, and Windows 11 Pro to measure FPS in the following games at 1440p, max settings with raytracing (RT) enabled when specified: Call of Duty: Modern Warfare 2; Cyberpunk 2077; Hogwarts Legacy; Watch Dogs Legion; Red Dead Redemption 2; The Last of Us Part I; Resident Evil 4 (RT High); STAR WARS Jedi: Survivor; Far Cry 6 (RT On); Forspoken; Forza Horizon 5 (RT Extreme); The Callisto Protocol; Dying Light 2 (RT On); Shadow of the Tomb Raider; Spider-Man Miles Morales (RT Very High); and F1 23 (RT Med). System Manufacturers may vary configurations, yielding different results. Performance-per-dollar is calculated by taking the average scores of the games above compared against the SEP price on respective launch dates. RX-989

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