

AMD RADEON™ GRAPHICS

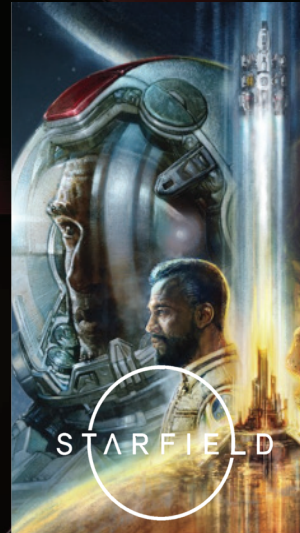
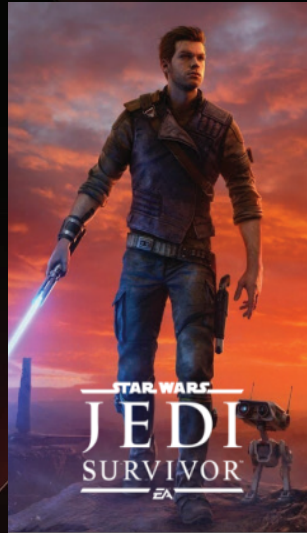
PRODUCT GUIDE
Q1 2024



AMD 
together we advance_

AMD 
RADEON
RX 7000 Series

DISRUPTIVE YEAR FOR GAMING
DEMANDING GAMES DRIVE UPGRADES



OUR MOST POWERFUL LINEUP YET

AMD Radeon™
RX 7900 XTX
24GB

AMD Radeon™
RX 7900 XT
20GB

AMD Radeon™
RX 7900 GRE
16GB

AMD Radeon™
RX 7800 XT
16GB

AMD Radeon™
RX 7700 XT
12GB

AMD Radeon™
RX 7600 XT
16GB

AMD Radeon™
RX 7600
8GB



ULTRA ENTHUSIAST

ENTHUSIAST

MAINSTREAM

ENTRY-LEVEL

AMD
RADEON
RX 7000 Series

AMD
together we advance_

POWERING TRUE NEXT GENERATION EXPERIENCES

THE AMD RADEON™ RX 7000 SERIES GRAPHICS – OUR MOST ADVANCED AND EXTREME GPUs YET, LEVERAGING TRUE NEXT-GEN TECHNOLOGY TO POWER THE BEST GAMING AND CREATOR EXPERIENCES

AMD RDNA™ 3 ARCHITECTURE

- Unified AMD RDNA™ 3 compute units, featuring new AI accelerators and 2nd generation raytracing accelerators.
- 2nd Generation AMD Infinity Cache™ Technology connected through the Worlds Fastest Chiplet Interconnect⁶.

ADVANCED TECHNOLOGIES

- **AMD HYPR-RX** allows gamers to leverage the combined forces of AMD Radeon™ Super Resolution, AMD Fluid Motion Frames, AMD Radeon™ Anti-Lag / Anti-Lag+ and AMD Radeon™ Boost to make an unparalleled gaming experience.
- **AMD Fluid Motion Frames** (AFMF) is a frame generation technology that works in thousands of games, designed to increase frame rates and smooth movement for gaming winning performance.
- **AMD Software: Adrenalin Edition™** application ushers in a new era for gamers, one in which they have total control over their graphics card and processor.

ULTIMATE DESKTOP PLATFORM

- Plug-and-game solution, integrating seamlessly with optimized system power, thermals, and noise levels.
- Harness the full potential of your system with AMD smart technologies⁵.

FUTURE READY GRAPHICS

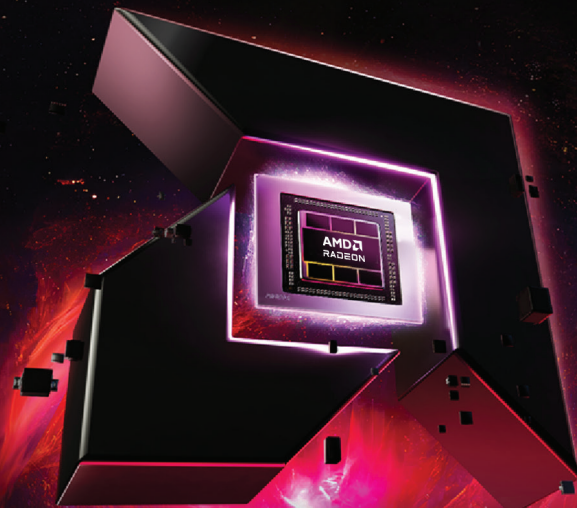
- Up to 24GB of GDDR6 memory to deliver an incredible experience at 4K and beyond.
- The first ultra-enthusiast graphics cards to feature DisplayPort™ 2.1 delivering up to 8K 165Hz.

BREATHTAKING VIVID VISUALS

- AMD Radiance Display™ Engine features 12-bit HDR and full REC2020 Color Space for incredible color accuracy at up to 8K 165Hz 12-bit.
- AMD FreeSync™ technology⁴ up to 4K 240hz and 8K 165hz gaming and with DisplayPort™ 2.1 supported AMD FreeSync™ displays.

NEW LEVEL OF IMMERSION

- AMD FidelityFX™ techniques^{1,2}, Raytracing, and Radeon™ Super Resolution³ technologies.
- Dedicated AI and raytracing hardware to deliver world class visuals with high framerates.



GET MORE WITH RADEON™ GPUs

LEADERSHIP PERFORMANCE
FUTURE READY FEATURES
NEXT-GEN TECHNOLOGIES

4K

RTX 4080 SUPER	16GB	RX 7900 XTX	24GB
RTX 4070TI SUPER	16GB	RX 7900 XT	20GB
RTX 4070 SUPER	12GB	RX 7900 GRE	16GB

1440p

RTX 4070	12GB	RX 7800 XT	16GB
RTX 4060TI	16GB	RX 7700 XT	12GB

1080p

RTX 4060TI	8GB	RX 7600 XT	16GB
RTX 4060	8GB	RX 7600	8GB
RTX 3060	8GB	RX 6600	8GB
GTX 3050	6GB	RX 6500XT	8GB
GTX 1650	4GB	RX 6500XT	4GB
GTX 1630	4GB	RX 6400	4GB

STARFIELD



LIES OF P



AVATAR
FRONTIERS OF PANDORA



NEW GAMES
PLAY GREAT ON

AMD
RADEON

PAYDAY 3



THE
INVINCIBLE





PLAYS GREAT ON **AMD RADEON™** GRAPHICS

AVG FPS (% FASTER VS. COMPETITION)

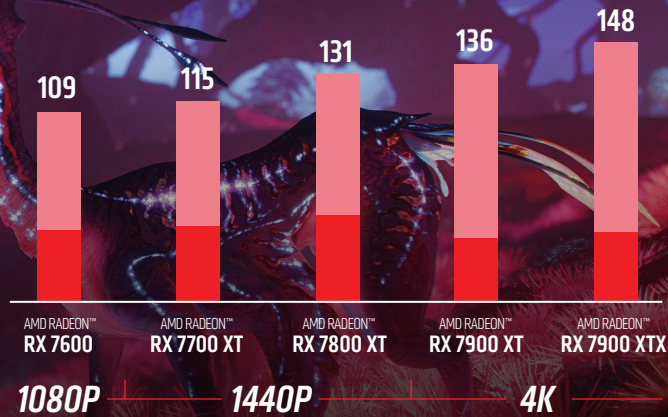
4K ULTRA	RADEON™ RX 7900 XTX	132 FPS	
	GEFORCE RTX 4080 SUPER	112 FPS	(+18%)
1440P ULTRA	RADEON™ RX 7900 XT	116 FPS	
	GEFORCE RTX 4070 TI SUPER	96 FPS	(+21%)
1440P HIGH	RADEON™ RX 7800 XT	124 FPS	(+7% +20%)
	GEFORCE RTX 4070 SUPER	116 FPS	
	GEFORCE RTX 4070	103 FPS	
1080P HIGH	RADEON™ RX 7700 XT	127 FPS	
	GEFORCE RTX 4060 TI	108 FPS	(+18%)
	RADEON™ RX 7600 XT	108 FPS	
1080P HIGH	RADEON™ RX 7600 XT	131 FPS	(+26%)
	RADEON™ RX 7600	111 FPS	(+7%)
	GEFORCE RTX 4060	104 FPS	



ALL QUALITY PRESETS AND FPS SCORES ABOVE ARE BOOSTED BY
AMD FIDELITYFX SUPER RESOLUTION 3

PLAYS GREAT ON **AMD RADEON™** GRAPHICS

AVATAR FRONTIERS OF PANDORA



AVATAR: FRONTIERS OF PANDORA™

AVG FPS WITH **FSR 3 + FRAME GEN** @ ULTRA SETTINGS
(WITH RAYTRACING)

ALL TESTING DONE WITH AMD RYZEN™ 7 7800X3D PROCESSORS AND USING AMD FIDELITYFX™ SUPER RESOLUTION 3
"PERFORMANCE" MODE AT 4K, AND "QUALITY" MODE AT LOWER RESOLUTIONS WITH FRAME GENERATION.

UP TO
3.6X MORE
PERFORMANCE WITH

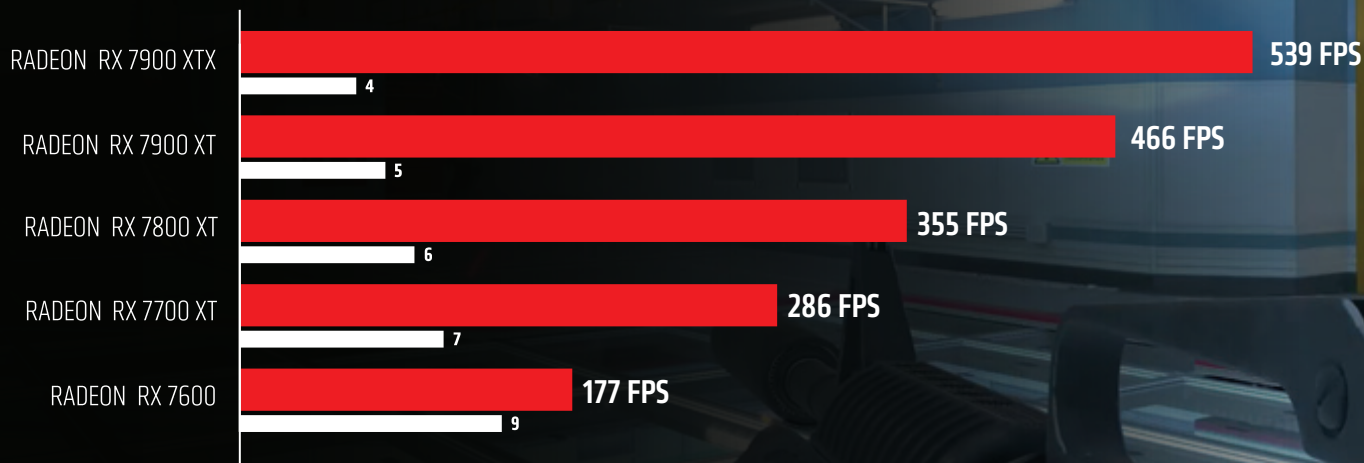
AMD
FidelityFX
Super Resolution 3

NEVER MISS ANOTHER FRAME IN

COUNTER STRIKE 2

AVERAGE *LATENCY* (MS) AND *FPS*

1080p Max Settings, HYPR-RX on, Dust 2 Map

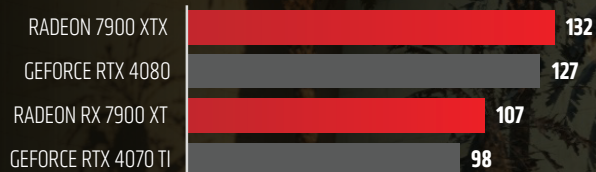


TOTAL WAR: PHARAOH

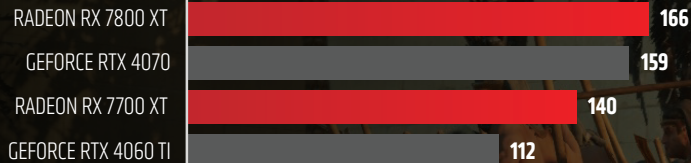
PLAYS BEST ON AMD RADEON™ GRAPHICS

AVERAGE **FPS** | ULTRA SETTINGS

4K



1440P



1080P

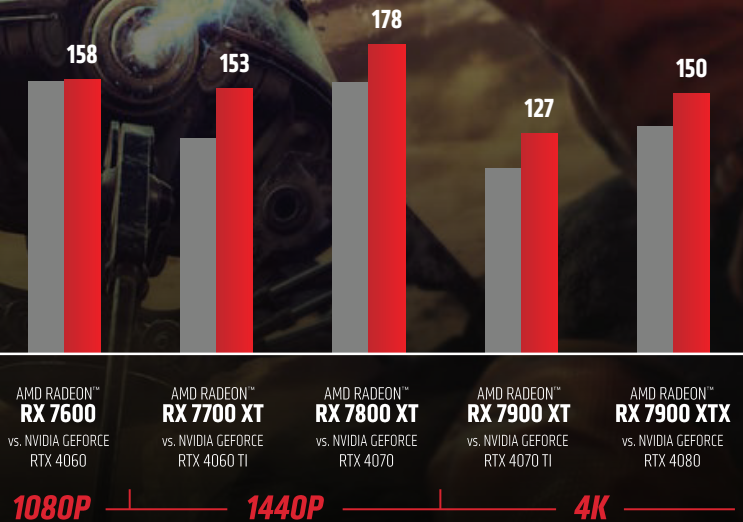


PLAYS BEST ON **AMD RADEON™** GRAPHICS

THE INVINCIBLE

A v. designed by Starward Industries

AVG FPS @ EPIC SETTINGS



100+ FPS
ULTRA-SMOOTH
GAMING AND
LEADERSHIP
PERFORMANCE

ALL CARDS PAIRED WITH AN AMD RYZEN™ 7 7800X3D PROCESSOR IN ALL TESTING.

**MASSIVE
PERFORMANCE**
**MAXIMUM
FIDELITY**

AMD
FidelityFX
Super Resolution 3



MASSIVE PERFORMANCE **MAXIMUM FIDELITY**

AMD
FidelityFX
Super Resolution



AMD
FidelityFX
Super Resolution 2



AMD
FidelityFX
Super Resolution 3

AVAILABLE & MAXIMUM FIDELITY

OVER 350 Available and
Upcoming Games*

**Helps boost framerates in supported games using cutting-edge upscaling
and advanced frame generation technologies**

AMD FIDELITYFX™ SUPER RESOLUTION 3 VS NVIDIA DLSS 3

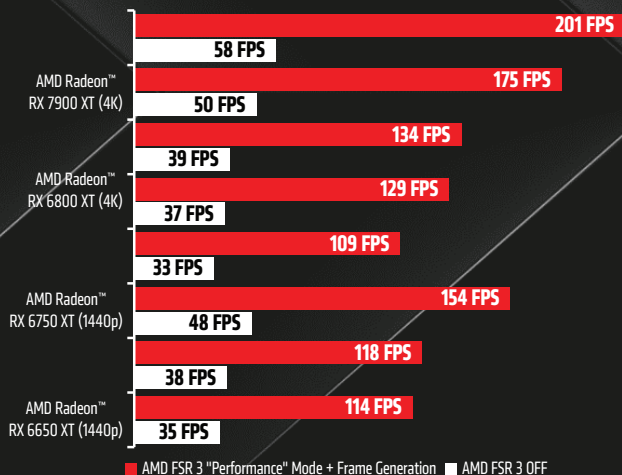
UPSCALING TECHNOLOGIES COMPARED

FEATURE	AMD FSR 3	DLSS 3
FRAME GENERATION TECHNOLOGY	✓	✓
TEMPORAL SUPER RESOLUTION UPSCALING TECHNOLOGY	✓	✓
BOOSTS FRAMERATES IN SUPPORTED GAMES	✓	✓
SIMILAR OR BETTER THAN NATIVE IMAGE QUALITY	✓	✓
INCLUDES OPTIMIZED ANTI-ALIASING	✓	✓
ADJUSTABLE IMAGE QUALITY SETTINGS	✓	✓
NATIVE ANTI-ALIASING (NO UPSCALING) MODE	✓	✓
BUILT-IN LATENCY REDUCTION TECHNOLOGY	✓	✓
EASY FOR GAME DEVELOPERS TO INTEGRATE	✓	✓
OPEN-SOURCE TECHNOLOGY	✓	✗
DOESN'T REQUIRE DEDICATED MACHINE LEARNING (ML) HARDWARE	✓	✗
SUPPORTED ACROSS A WIDE RANGE OF PRODUCTS AND PLATFORMS	✓	✗
CONSOLE SUPPORT	✓	✗

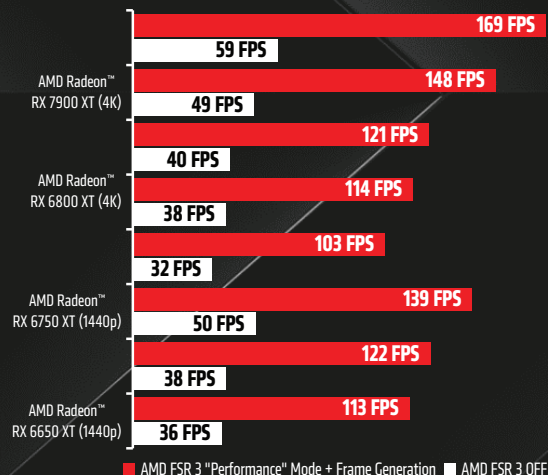
MASSIVE PERFORMANCE WITH AMD FIDELITYFX™ SUPER RESOLUTION 3

IN FORSPOKEN AND IMMORTALS OF AVEUM™ ON AMD RADEON™ GRAPHICS

FORFPOKEN ("Ultra-High" RT Graphics Settings, Average FPS)



IMMORTALS OF AVEUM™ ("Ultra" Graphics Settings, Average FPS)



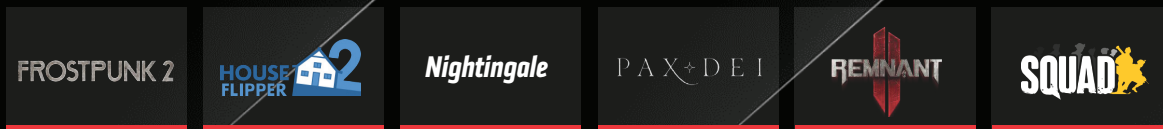
INCREDIBLE GAME SUPPORT

AMD
FidelityFX
Super Resolution 3

AVAILABLE



UPCOMING



SEE WWW.AMD.COM/FSR FOR THE LATEST UPDATES

AMD
together we advance_

INCREDIBLE PARTNER SUPPORT

AMD
FidelityFX
Super Resolution 3



AV1 *NEXT-GEN* STREAMING

Higher fidelity, Sharper image,
Clearer text with ML,
and Lower file size
at the same bitrate.



AVC @ 1080p 6Mbps



AV1 @ 1080p 6Mbps

AVAILABLE ON

AMD
Software
Adrenalin Edition



Open Broadcaster
Software

*AVAILABLE ON OBS STUDIO VERSION 29.1.0. ENDNOTE GD-176

AMD
together we advance_

AMD
RADEON
RX 7000 Series

STABLE DIFFUSION

AUTOMATIC1111 | AI TEXT-TO-IMAGE

OVER

10X

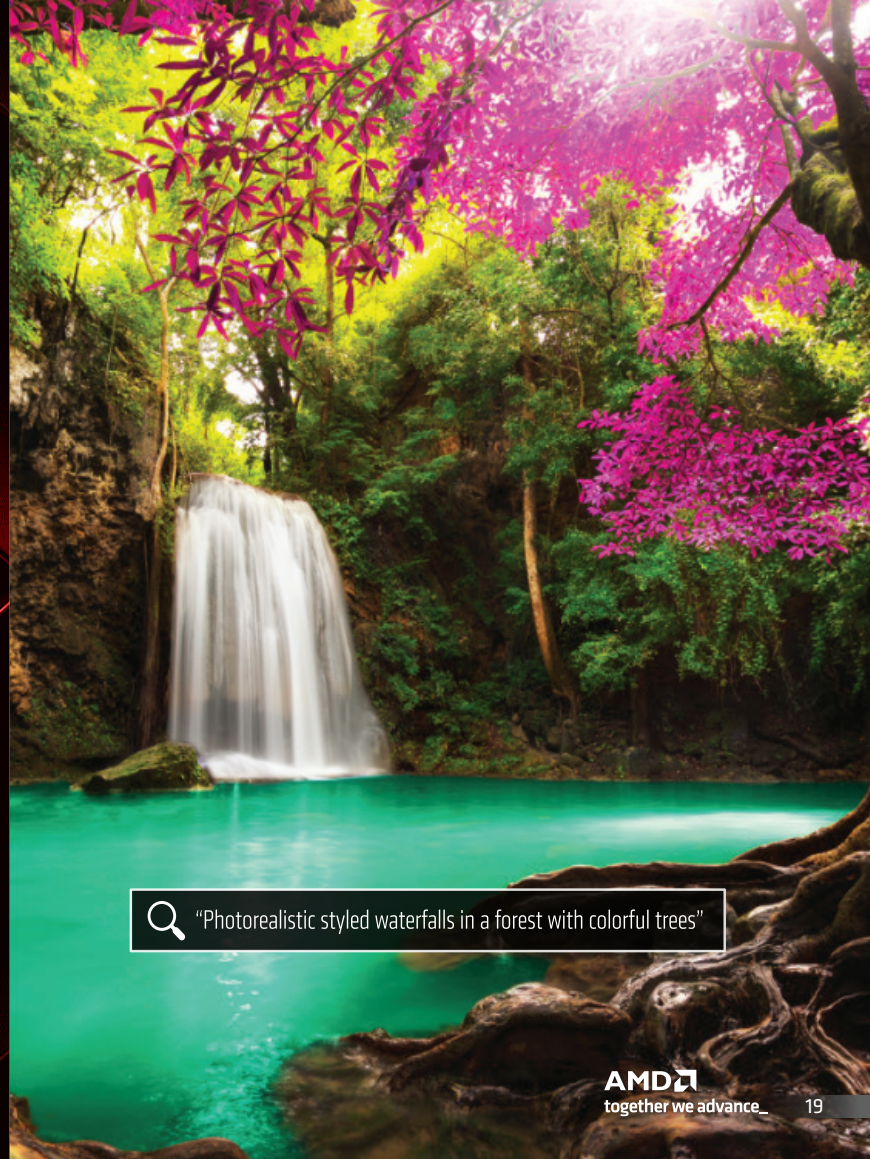
ON AVERAGE

AI PERFORMANCE

OPTIMIZED WITH MICROSOFT OLIVE

AMD
RADEON

*Simulated Text-to-Image Prompt. See Endnote RX-995



"Photorealistic styled waterfalls in a forest with colorful trees"

AMD
together we advance_

AMD
RADEON
RX 7000 Series

DAVINCI RESOLVE 18.6

NEURAL ENGINE PERFORMANCE

OVER

4X

ON AVERAGE

AI PERFORMANCE

VS DAVINCI RESOLVE 18.5



1080P

8K



GET **MORE** WITH RADEON™ GRAPHICS

AMD
RADEON

LEADERSHIP PERFORMANCE

Day 0 Performance
Ultimate FPS/\$

FUTURE READY FEATURES

VRAM Leadership
DisplayPort 2.1

NEXT-GEN TECHNOLOGIES

FidelityFX™ Super Resolution 3
AMD Fluid Motion Frames
HW Ray tracing
AI Acceleration

MORE VRAM WITH RADEON GRAPHICS

Across 4K and 1440P Segments

4K

RTX 4080
16GB

RX 7900 XTX
24GB

RTX 4070 TI
12GB

RX 7900 XT
20GB

RTX 4070S
12GB

RX 7900 GRE
16GB

1440p

RTX 4070
12GB

RX 7800 XT
16GB

3000 CERTIFIED
DISPLAYS

LARGEST GAMING DISPLAY ECOSYSTEM

AMD
FreeSync



AMD
FreeSync
Premium Pro

SAMSUNG
Odyssey OLED G8

NEXT-GEN

DISPLAYPORT™ 2.1 SUPPORT

ONLY ON
AMD
RADEON
RX 7000 Series



***BUILD YOUR
ULTIMATE GAMING RIG***
**EXPERIENCE THE ULTIMATE
GAMING PLATFORM**

More AMD Performance. Built to Game.



WHY GAMERS LOVE AMD SOFTWARE: ADRENALIN EDITION™ APPLICATION

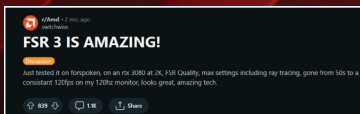
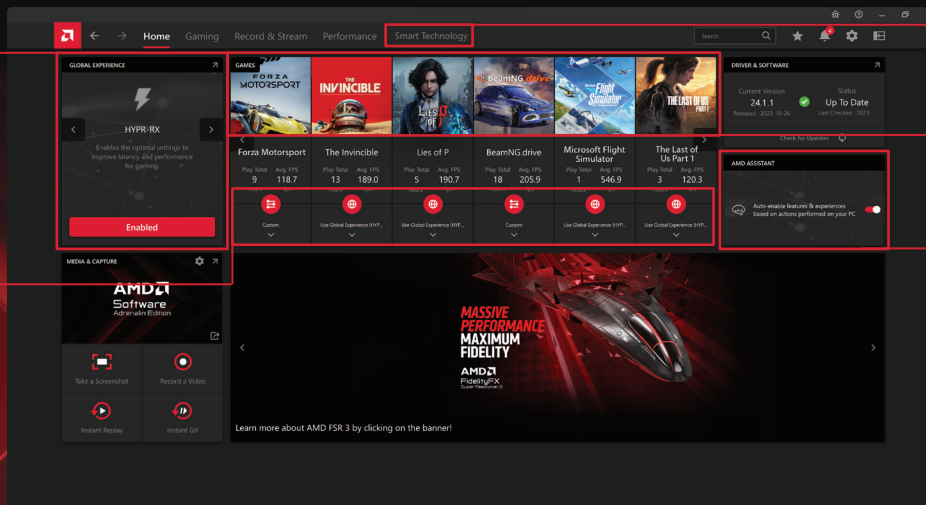
1. Access HYPR-RX profiles right within the Home Tab

2. Access A+A Features in the new Smart Technologies tab

3. Enjoy key game art and a vibrant UI redesign

4. Auto-enable features with AMD Assistant

5. Easily Change



UNRELENTING FOCUS
ON STABILITY

GAME READY
DRIVERS

NO LOGIN OR USER
INFORMATION REQUIRED

EASY TO USE
MODERN UI

CONTINUOUS
INNOVATION OVER TIME

GET **ADVANCED** FEATURES WITH RADEON™

AMD SOFTWARE

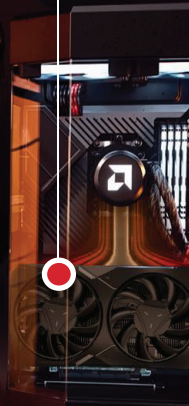
STABILITY | FEATURES | PERFORMANCE

AMD FREESYNC™

OVER 3000 DISPLAYS
FOR STUTTER-FREE SMOOTH GAMING

AMD SMART TECHNOLOGY

ENHANCED PERFORMANCE WITH RYZEN™ + RADEON™



- AMD HYPR-RX
- AMD Fluid Motion Frames
- AMD Noise Suppression
- Record & Stream
- Tuning & Overclocking
- AMD Smart Access Memory™ Technology
- AMD Smart Access Video
- AMD FreeSync™ Technology

AMD SOFTWARE FEATURES HELP DELIVER *INSTANT PERFORMANCE* ACROSS ALL YOUR GAMES

AMD RADEON™
RX 7600 XT
16GB

87
AVG FPS

1080P ULTRA



AMD RADEON™
RX 7600 XT
16GB

208
AVG FPS

AMD HYPR-RX ON
1080P ULTRA | FSR 2 | AFMF

AMD
Fluid Motion Frames

AMD
HYPR-RX

GET MORE PERFORMANCE WITH **RADEON™ RX GRAPHICS**

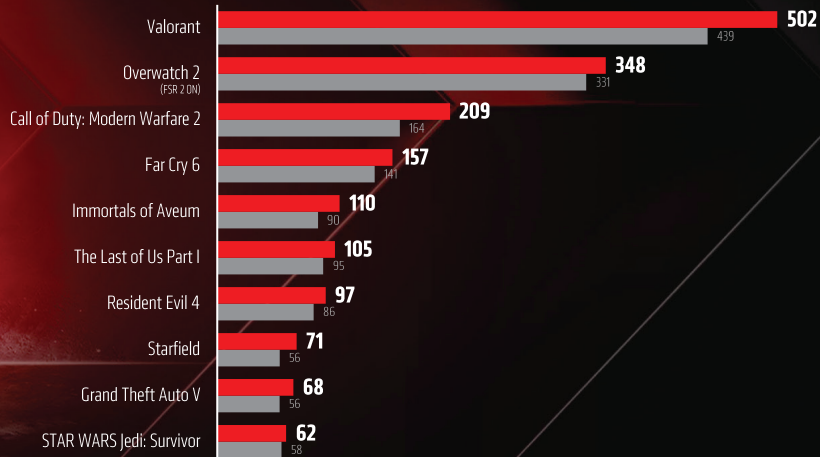
GEFORCE RTX 4080 16GB

VS AMD RADEON™ RX 7900 XTX 24GB

AMD RADEON™
RX 7900 XTX
24GB



4K | MAX SETTINGS | AVG FPS



GET MORE PERFORMANCE WITH **RADEON™ RX GRAPHICS**

GEFORCE RTX 4070 TI 12GB

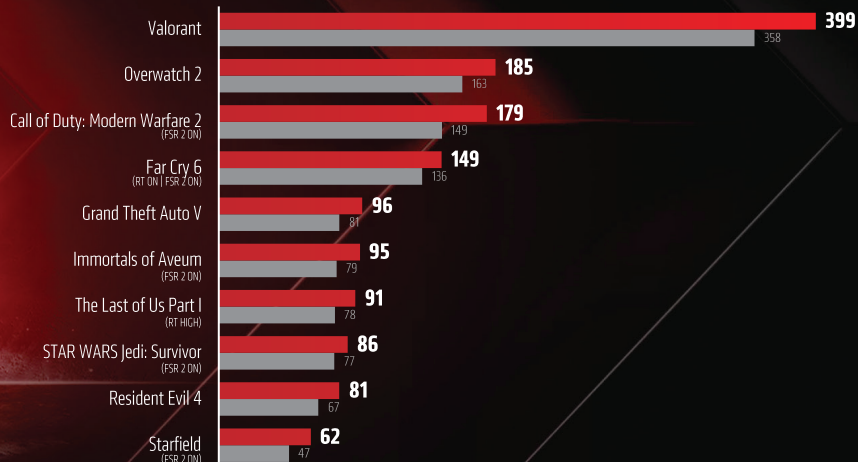
VS

AMD RADEON™ RX 7900 XT 20GB

AMD RADEON™
RX 7900 XT
20GB



4K | MAX SETTINGS | AVG FPS



4K GAMING IN THE REST OF YOUR GAMES

AMD RADEON™
RX 7900 GRE 16GB

+ FSR 2/3 "QUALITY" MODE
+ AFMF OR FRAME GEN

GEFORCE
RTX 4070S 12GB

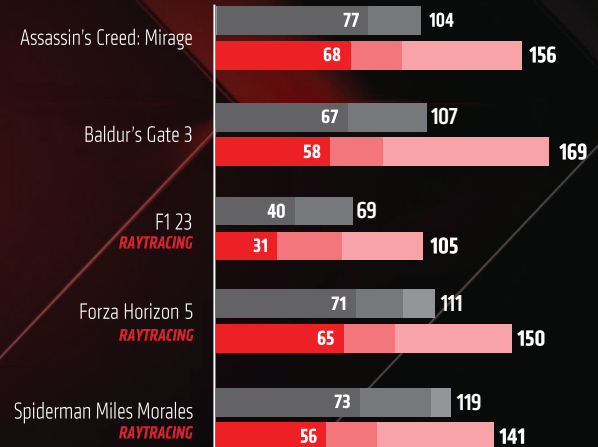
+ DLSS 2/3 "QUALITY" MODE
+ FRAME GEN



AMD RADEON™
RX 7900 GRE
16GB

AMD HYPR-RX
IN THOUSANDS OF GAMES

AVG FPS @ 4K Max



AMD
HYPR-RX

ENDNOTE G0-187A, G0-231, G0-225A, G0-234, RX-1075

AMD
together we advance_

GET MORE PERFORMANCE WITH **RADEON™ RX GRAPHICS**

GEFORCE RTX 4070 12GB

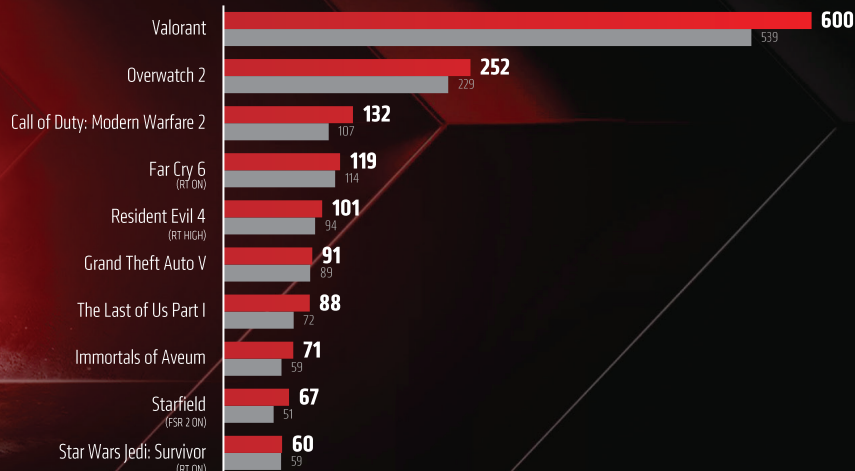
VS

AMD RADEON™ RX 7800 XT 16GB

1440P | MAX SETTINGS | AVG FPS



AMD RADEON™
RX 7800 XT
16GB



GET MORE PERFORMANCE WITH **RADEON™ RX GRAPHICS**

GEFORCE RTX 4060 TI 16GB

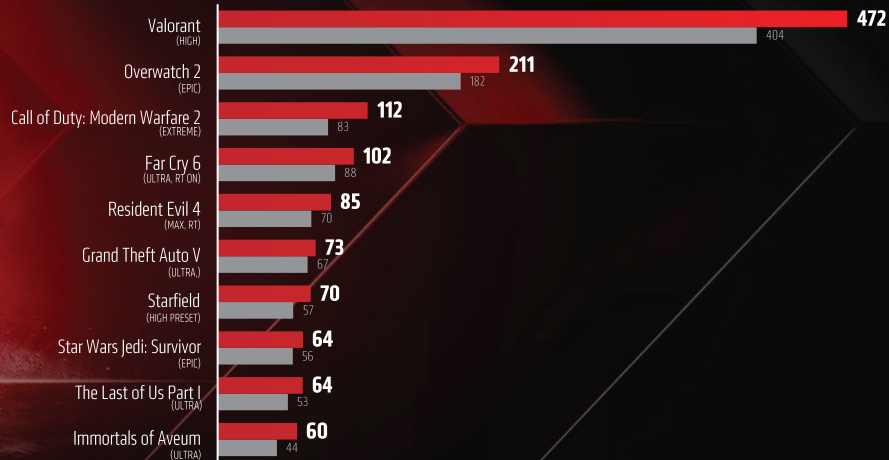
VS

AMD RADEON™ RX 7700 XT 12GB

1440P | AVG FPS



AMD RADEON™
RX 7700 XT
12GB



GET MORE PERFORMANCE WITH **RADEON™ RX GRAPHICS**

AMD
RADEON
RX 7600

8GB



AMD
RADEON
RX 7600 XT

16GB



AMD RADEON™
RX 7600 XT 16GB

+FSR 2/3 "QUALITY" MODE
+AFMF OR FRAME GEN

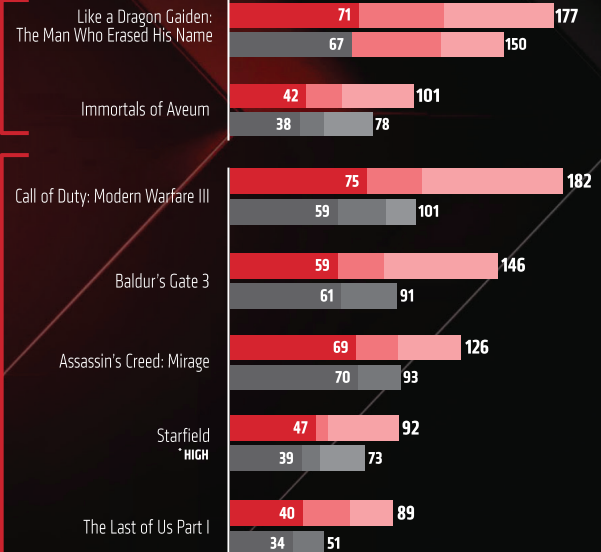
NVIDIA GEFORCE
RTX 4060 8GB

+DLSS 2/3 "QUALITY" MODE
+FRAME GEN

AMD FSR 3 IN
20 AVAILABLE &
UPCOMING GAMES

AMD HYPR-RX IN
THOUSANDS OF GAMES

AVG FPS @ 1440P MAX* SETTINGS



GET MORE PERFORMANCE WITH **RADEON™ RX GRAPHICS**

GEFORCE RTX 3060 8 GB

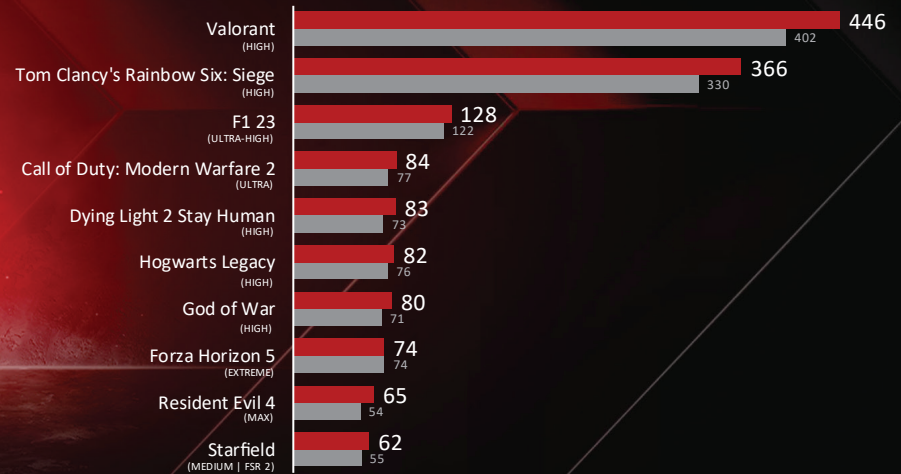
VS

AMD RADEON™ RX 6600 8GB

AMD RADEON™
RX 6600
8GB



1080P | AVG FPS



LEADERSHIP PERFORMANCE UNBEATABLE VALUE



AMD RADEON™ BUDGET 1080P GRAPHICS CARDS

AMD RADEON™ RX 6500 XT 8GB

- Fast eSports & Entry AAA gaming
- Faster & Smoother with 8GB VRAM
- Most affordable new 8GB GPU

On Avg **8% FASTER**
vs. GeForce RTX 3050 6GB

AMD RADEON™ RX 6500 XT 4GB

- Fast eSports & Entry AAA gaming
- Stable Supply

On Avg **17% FASTER**
vs. GeForce GTX 1650 4GB

AMD RADEON™ RX 6400 4GB

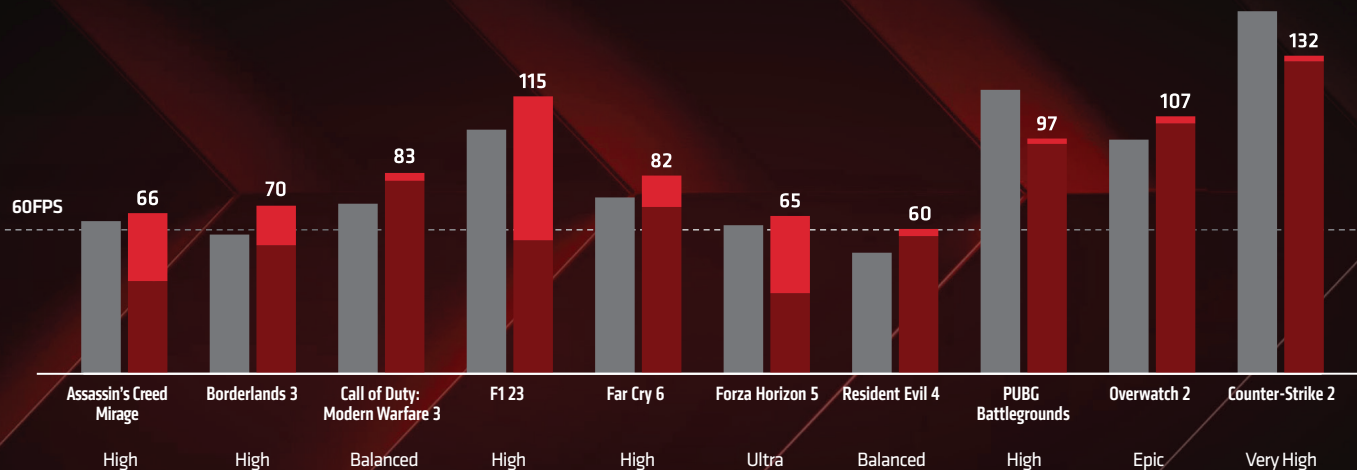
- Fast & Efficient eSports Gaming
- Low Profile Design & No power connector
- Stable Supply

On Avg **76% FASTER**
vs. GeForce GTX 1630 4GB

LEADERSHIP PERFORMANCE

UNBEATABLE VALUE

AVG FPS @ 1080P



NVIDIA GEFORCE
RTX 3050 6GB

AMD RADEON™
RX 6500 XT 4GB

AMD RADEON™
RX 6500 XT 8GB

GET *MORE* WITH RADEON™ GRAPHICS & SAPPHIRE

AMD RADEON™ RX 7900 XTX
VAPOR-X 24GB



SAPPHIRE
NITRO+

NITRO+ AMD RADEON™
RX 7900 XT VAPOR-X 20GB



SAPPHIRE
NITRO+

PULSE AMD RADEON™
RX 7900 XTX 24GB



SAPPHIRE
PULSE

PULSE AMD RADEON™
RX 7900 XT 20GB



SAPPHIRE
PULSE

PULSE AMD RADEON™
RX 7900 GRE 16GB



SAPPHIRE
PULSE

NITRO+ AMD RADEON™
RX 7800 XT 16GB



SAPPHIRE
NITRO+

PULSE AMD RADEON™
RX 7800 XT 16GB



SAPPHIRE
PULSE

PURE AMD RADEON™
RX 7800XT 16GB



SAPPHIRE
PURE

PURE AMD RADEON™
RX 7700 XT 12GB



SAPPHIRE
PURE

NITRO+ AMD RADEON™
RX 7700 XT 12GB



SAPPHIRE
NITRO+

PULSE AMD RADEON™
RX 7700 XT 12GB



SAPPHIRE
PULSE

PULSE AMD RADEON™
RX 7600 8GB



SAPPHIRE
PULSE

PULSE AMD RADEON™
RX 6700 XT



SAPPHIRE
PULSE

PULSE AMD RADEON™
RX 6650 XT



SAPPHIRE
PULSE

PULSE AMD RADEON™ RX 6600



SAPPHIRE
PULSE

GET *MORE* WITH RADEON™ GRAPHICS & ASUS

**ROG STRIX RADEON™ RX 7600
OC EDITION 8GB GDDR6**



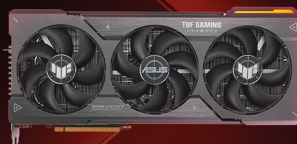
ASUS

**ASUS TUF GAMING RADEON™
RX 7900 XTX OC EDITION 24GB**



ASUS

**ASUS TUF GAMING RADEON™
RX 7900 XT OC EDITION 20GB**



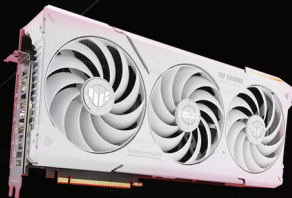
ASUS

**ASUS TUF GAMING RADEON™
RX 7800 XT OC EDITION 16GB**



ASUS

**ASUS TUF GAMING RADEON™
RX 7800 XT WHITE OC
EDITION 16GB**



ASUS

**ASUS TUF GAMING RADEON™
RX 7700 XT OC EDITION 12GB**



ASUS

**ASUS DUAL RADEON™ RX 7600
OC EDITION 8GB**



ASUS

**ASUS DUAL RADEON™
RX 6600 8GB**



ASUS

GET *MORE* WITH RADEON™ GRAPHICS & ASROCK

AMD RADEON™ RX 7900 GRE
STEEL LEGEND 16GB OC



ASRock

AMD RADEON™ RX 7900 XTX
PHANTOM GAMING 24GB OC



PHANTOM GAMING

AMD RADEON™ RX 7900 XT
PHANTOM GAMING 20GB OC



PHANTOM GAMING

AMD RADEON™ RX 7800 XT
CHALLENGER 16GB OC



ASRock

AMD RADEON™ RX 7800 XT
CHALLENGER 16GB OC



PHANTOM GAMING

AMD RADEON™ RX 7700 XT
CHALLENGER 12GB OC



ASRock

AMD RADEON™ RX 7700 XT
PHANTOM GAMING 12GB OC



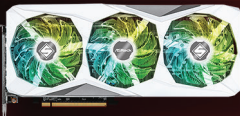
PHANTOM GAMING

AMD RADEON™ RX 7600
CHALLENGER 8GB OC



ASRock

AMD RADEON™ RX 7600
STEEL LEGEND 8GB OC



ASRock

AMD RADEON™ RX 6750 XT
PHANTOM GAMING D 12GB OC



ASRock

GET *MORE* WITH RADEON™ GRAPHICS & GIGABYTE

RADEON™ RX 7900 XT
GAMING OC 20GB



GIGABYTE™

RADEON™ RX 7700 XT
GAMING OC 12GB



GIGABYTE™

RADEON™ RX 7800 XT
GAMING OC 16GB



GIGABYTE™

RADEON™ RX 7900 GRE
GAMING OC 16GB



GIGABYTE™

RADEON™ RX 7600
GAMING OC 8GB



GIGABYTE™

RADEON™ RX 7600 XT
GAMING OC 16GB



GIGABYTE™

RADEON™ RX 6600
EAGLE 8GB



GIGABYTE™

**GAME.
STREAM.
ADVANCE.**

AMD
RADEON
RX 7000 Series



GD-106 Overclocking and/or Undervolting AMD processors and memory, including without limitation, altering clock frequencies / multipliers or memory timing / voltage, to operate outside of AMD's published specifications will void any applicable AMD product warranty, even when enabled via AMD hardware and/or software. This may also void warranties offered by the system manufacturer or retailer. Users assume all risks and liabilities that may arise out of overclocking / undervolting AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106

GD-164 is present within this slide: Day-0 driver compatibility and feature availability depend on system manufacturer and/or packaged driver version. For the most up-to-date drivers, visit AMD.com. GD-164.

GD-127 AMD FreeSync/FreeSync Premium/FreeSync Premium Pro technology requires AMD Radeon graphics and a display certified by AMD. See www.amd.com/freesync for complete details. Confirm capability with your system or display manufacturer before purchase. GD-127

GD-130a As of November 2023, the number of AMD FreeSync technology enabled displays available is ~4000, more than the publicly available listing of competing product solutions. GD-130a.

GD-157 Radeon™ Anti-Lag is compatible with DirectX 9, DirectX 11 and DirectX 12 APIs, and Windows 7/10/11. Hardware compatibility includes Radeon GCN and newer consumer dGPUs, Ryzen 2000 Series and newer APUs, including hybrid and detachable graphics configurations. No mGPU support. GD-157

GD-158 Radeon™ Boost is compatible with Windows 7/10/11 in select titles only. Hardware compatibility includes Radeon RX 400 and newer consumer dGPUs, Ryzen 2000 Series and newer APUs, including hybrid and detachable graphics configurations. No mGPU support. Radeon™ Boost with VRS compatible with AMD Radeon™ RX 6000 Series Graphics and newer only. For a list of compatible titles see <https://www.amd.com/en/technologies/radeon-boost>. GD-158

GD-172 For additional information about AMD FidelityFX technologies, see <https://www.amd.com/en/technologies/radeon-software-fidelityfx>. GD-172

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.

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

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.

GD-197 Radeon Super Resolution works with games that support exclusive and borderless full-screen modes. AMD Software: Adrenalin Edition 22.5.2 or newer is required. GD-197

GD-201 AI-powered noise suppression, USB4, and Wi-Fi 6E require OEM enablement. Please check with your PC manufacturer prior to purchase. GD-201

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™ 22.7.1 and newer, and may not install on systems equipped with Realtek ACP-based ANR. GD-213

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.

GD-214 AMD Privacy View software works with AMD Ryzen 5000 Series processors and newer with integrated graphics and AMD Radeon RX 6000 Series graphics and newer; a video/webcam camera is required. It does not work on workstation-based systems running pro drivers. AMD does not support Privacy View on OEM-based systems. To access Privacy View, visit amd.com. GD-214.

GD-225A 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 Boost, and AMD Fluid Motion Frames where applicable to select titles. GD-225A.

GD-231 AMD Fluid Motion Frames interpolation technology when used with AMD FidelityFX Super Resolution (FSR) 3 inserts 1 frame between existing ones which can therefore enable up to 2x the framerate in supported games. GD-231.

GD-234A AMD Fluid Motion Frames, or AFMF, is a frame generation technology designed to increase frame rates and smooth movement for game winning performance with minimal impact to image quality. AFMF is integrated into AMD Software. AFMF supports AMD Radeon™ RX 6000 and 7000 Series discrete desktop graphics cards, mobile laptop systems with AMD Ryzen™ 7000 and 8000 Series Processors with AMD Radeon™ 700M Series Graphics and AMD Radeon™ RX 6000 and 7000 Series discrete mobile graphics, supported in both hybrid mode and dedicated graphics mode, and AMD Ryzen™ 7000 and 8000 Series mobile and desktop processors with AMD Radeon™ 700M Series Graphics. GD-234A.

RX-817 Based on AMD internal analysis, November 2022, comparing the published chiplet interconnect speeds of Radeon RX 7900 Series GPUs to Intel Ponte Vecchio GPU and Apple M1 Ultra. RX-817

RX-991 Testing done by AMD performance labs Aug 25, 2023, on test systems configured with Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7600, RX 6950 XT, RX 6800 XT, RX 6800, RX 6750 XT, RX 6650 XT (Driver 23.10.29.06-230817a), RX 7800 XT, RX 7700 XT (Driver 23.20.01.05-230823a) and NVIDIA GeForce RTX 4080, RTX 4070 Ti, RTX 4070, RTX 4060 Ti, RTX 4060, RTX 3090, RTX 3080, RTX 3070 Ti, RTX 3070, RTX 3060 12GB (Driver 53713) graphics cards with SAM/ReBar on, to measure FPS in Starfield at 4K, 1440p and 1080p Ultra and High settings, which have AMD FidelityFX Super Resolution enabled by default at 75% and 62% scaling factors respectively. System Manufacturers may vary configurations, yielding different results. RX-991.

RX-995 Testing conducted by AMD as of September 14, 2023, on a test system configured with a Ryzen 9 7950X CPU, 32GB DDR5, Radeon RX 7900 XTX GPU, and Windows 11 Pro, with AMD Software: Adrenalin Edition 23.8.2, using the application Stable Diffusion 1.5 with Microsoft Olive under Automatic 1111 vs. Default Automatic 1111. Performance may vary. System manufacturers may vary configurations, yielding different results. RX-995

RX-997 Testing conducted by AMD as of September 19, 2023, on a test system configured with a Ryzen 9 5900X CPU, 32GB DDR4, Radeon RX 7900 XTX GPU, and Windows 11 Pro, with AMD Software: Adrenalin Edition 23.9.1, using the application Black Magic DaVinci Resolve 18.6 vs. Black Magic DaVinci Resolve 18.5. Data was gathered on the HD to 8K UHD 4x (Playback FPS @ 1080p Timeline), Speedwarp 10% (Playback FPS @ 1080p timeline), and Magic Mask Tracking – Better (FPS). Performance may vary. System manufacturers may vary configurations, yielding different results. RX-997

RX-1019 Testing done by AMD performance labs Oct 10, 2023, on test systems configured with Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7800 XT, RX 7700 XT, RX 7600 (Driver 23.20.17.01-231004a1), and NVIDIA GeForce RTX 4080, RTX 4070 Ti, RTX 4070, RTX 4060 Ti, RTX 4060 (Driver 53742) graphics cards with SAM/ReBar on, to measure FPS in Total War: Pharaoh at 4K, 1440p and 1080p Max settings. System manufacturers may vary configurations, yielding different results. RX-1019.

RX-1024 Testing done by AMD performance labs October, 2023, on test systems configured with AMD Ryzen 9 7900X CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT (Driver 23.9.1 RC3), and NVIDIA GeForce RTX 4080, RTX 4070 Ti (Driver 53742) graphics cards with SAM/ReBar enabled. Average FPS measured at 4K max settings with raytracing (RT) or AMD FidelityFX Super Resolution (FSR) "Performance Mode" enabled when specified, in the following games: STAR WARS Jedi: Survivor; Grand Theft Auto V: Starfield (FSR 2); Resident Evil 4 (Max RT); The Last of Us Part I (FSR 2); Immortals of Aveum (FSR 2); Far Cry 6 (RT, FSR); Call of Duty: Modern Warfare 2 (FSR 2); Overwatch 2 (FSR 2); and Valorant. System manufacturers may vary configurations, yielding different results. RX-1024

RX-1025 Testing done by AMD performance labs October, 2023, on test systems configured with AMD Ryzen 9 7900X CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7800 XT (Driver 23.9.2 RC3), and NVIDIA GeForce RTX 4070 (Driver 53742) graphics cards with SAM/ReBar enabled. Average FPS measured at 1440p max settings with raytracing (RT) or AMD FidelityFX Super Resolution (FSR) "Balanced Mode" enabled when specified, in the following games: Star Wars Jedi: Survivor (RT); Starfield (FSR 2); Immortals of Aveum; The Last of Us Part I; Grand Theft Auto V; Resident Evil 4 (RT High); Far Cry 6 (RT); Call of Duty: Modern Warfare 2; Overwatch 2; and Valorant. System manufacturers may vary configurations, yielding different results. RX-1025

RX-1026 Testing done by AMD performance labs October, 2023, on test systems configured with AMD Ryzen 9 7900X CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7700 XT (Driver 23.9.2 RC3), and NVIDIA GeForce RTX 4060 Ti 16GB (Driver 53742) graphics cards with SAM/ReBar enabled. Average FPS measured at 1440p resolution with raytracing (RT) when specified in the following games: Immortals of Aveum (Ultra); The Last of Us Part I (Ultra); Star Wars Jedi: Survivor (Epic); Starfield (High Preset); Grand Theft Auto V (Ultra); Resident Evil 4 (Max RT); Far Cry 6 (Ultra); Call of Duty: Modern Warfare 2 (Extreme); Overwatch 2 (Epic); and Valorant (High). System manufacturers may vary configurations, yielding different results. RX-1026

RX-1029 Testing done by AMD performance labs October, 2023, on test systems configured with AMD Ryzen 5 7600X CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7600 (Driver 23.9.2), and NVIDIA GeForce RTX 4060 8GB (Driver 53734) graphics cards with SAM/ReBar enabled. Average FPS measured at 1080p resolution in the following games: Starfield (Medium); STAR WARS Jedi: Survivor (Epic); The Witcher 3 Next Gen (Ultra+); Resident Evil 4 (Max); Cyberpunk 2077 (Ultra); Hogwarts Legacy (High); Call of Duty: Modern Warfare 2 (Extreme); Overwatch 2 (Epic); F1 23 (High); and Tom Clancy's Rainbow Six: Siege (Ultra). System manufacturers may vary configurations, yielding different results. RX-1029

RX-1031: Testing done by AMD performance labs October, 2023, on test systems configured with AMD Ryzen 5 7600X CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 6600 (Driver 23.9.2), and NVIDIA GeForce RTX 3060 8GB (Driver 53734) graphics cards with SAM/ReBar enabled. Average FPS measured at 1080p resolution in the following games: Starfield (Medium Preset); Resident Evil 4 (Max); Forza Horizon 5 (Extreme); God of War (High); Hogwarts Legacy (High); Dying Light 2 Stay Human (High); Call of Duty: Modern Warfare 2 (Ultra); F1 23 (Ultra High); Tom Clancy's Rainbow Six: Siege (High); and Valorant (High). System manufacturers may vary configurations, yielding different results. RX-1031

RX-1032 Testing done by AMD performance labs October, 2023, on test systems configured with AMD Ryzen 5 7600X CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 6500 XT (Driver 23.9.2), and NVIDIA GeForce GTX 1650 4GB (Driver 53734) graphics cards with SAM/ReBar enabled. Average FPS measured at 1080p resolution with AMD FidelityFX Super Resolution (FSR) "Performance Mode" enabled when specified in the following games: Resident Evil 4 (Balanced); Hogwarts Legacy (Ultra, FSR 2); Forza Horizon 5 (Ultra); Marvel's Spider-Man Miles Morales (Maxed); STAR WARS Jedi: Survivor (Epic, FSR 2); PUBG: Battlegrounds (Ultra); F1 23 (Ultra High); Call of Duty: Modern Warfare 2 (Extreme, FSR 2); Tom Clancy's Rainbow Six: Siege (High); and Valorant (High). System manufacturers may vary configurations, yielding different results. RX-1032

RX-1042 Testing done by AMD performance labs Nov 06, 2023, on test systems configured with Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro and Radeon RX 7900 XTX, RX 7900 XT, RX 7800 XT, RX 7700 XT, RX 7600 (23.20.23.01-231025a) with AMD Smart Access Memory technology ON, vs. NVIDIA GeForce RTX 4080, RTX 4070 Ti, RTX 4070, RTX 4060 Ti, RTX 4060 (Driver 546.01) graphics cards with ReBar on, to measure FPS in The Inevitable at 4K, 1440p and 1080p Epic settings. System manufacturers may vary configurations, yielding different results. RX-1042.

RX-1072 Testing done by AMD performance labs Feb 5, 2024, on a test system configured with a Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7900 GRE, RX 7800 XT, RX 7700 XT, RX 7600 XT, RX 7600 (Driver 23.40.02.03-240123a) vs. a similarly configured system with a GeForce RTX 4080 Super, RTX 4080, RTX 4070 Ti Super, RTX 4070 Ti, RTX 4070 Super, RTX 4070, RTX 4060 Ti 16GB, RTX 4060 (Driver 551.31) graphics cards with AMD Smart Access Memory technology or ReBar turned ON, to measure FPS in Starfield at 1080p, 1440p, and 4K at Ultra and High settings with AMD FidelityFX Super Resolution 3 "Quality" and "Balanced" modes respectively and Frame Generation turned on and off. System manufacturers may vary configurations, yielding different results. RX-1072.

RX-1045 Testing done by AMD performance labs Nov 29, 2023, on a test system configured with a Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on a Radeon RX 7900 XTX, RX 7900 XT, RX 7800 XT, RX 7700 XT, RX 7600 (Driver 23.30.13.01-231127a) graphics cards with AMD Smart Access Memory technology ON, to measure FPS in Avatar: Frontiers of Pandora at 1080p, 1440p and 4K at Ultra settings, with AMD FidelityFX Super Resolution 3 and Frame Generation turned on and off using "Quality" and "Performance" modes at 4K, and "Quality" mode at lower resolutions. System manufacturers may vary configurations, yielding different results. RX-1045.

RX-1009 Testing done by AMD performance labs Sep 28, 2023, on test systems configured with Ryzen 9 7950X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7800 XT, RX 7700 XT, RX 7600 (Driver 23.9.3) graphics cards with SAM on, to measure latency in Counter-Strike 2 at 1080p Max settings. Latency testing done by turning HYPR-RX with Radeon Anti-Lag on and off. System Manufacturers may vary configurations, yielding different results. RX-1009.

RX-1010a Testing done by AMD performance labs Oct 5, 2023, on test systems configured with Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7800 XT, RX 7700 XT, RX 7600 (Driver 23.20.11.07-231003a1) graphics cards with SAM on, to measure FPS in Counter-Strike 2 at 4K, 1440p and 1080p Max settings. System Manufacturers may vary configurations, yielding different results. RX-1010a.

RS-598 Testing by AMD as of September 25, 2023, on the AMD Radeon RX 7900 XTX, RX 7800 XT, and RX 6800 XT graphics cards using AMD Software: Adrenalin Edition 23.9.3 driver, AMD Smart Access Memory technology, and AMD FidelityFX Super Resolution 3 technology with "Performance" mode and frame generation enabled versus AMD FSR 3 OFF, on a test system configured with an AMD Ryzen 7 7800X3D CPU, AMD Radeon RX 7900 XTX, RX 7800 XT, RX 6800 XT GPUs, 32GB DDR5-6000 RAM, MSI MEG x670E ACE motherboard, AMD Software: Adrenalin Edition 23.9.3 driver, and Windows 11 Pro 2022 Update, using the Forspoken built-in benchmark at 3840 x 2160, "Ultra-High" graphics preset, and DirectX 12. Performance is dependent on the AMD FSR 3 quality mode selected. AMD FSR 3 requires developer integration and is available in select games. Laptop manufacturers may vary configurations, yielding different results. RS-598

RS-599 Testing by AMD as of September 25, 2023, on the AMD Radeon RX 6750 XT, RX 7600, and RX 6650 XT graphics cards using AMD Software: Adrenalin Edition 23.9.3 driver, AMD Smart Access Memory technology, and AMD FidelityFX Super Resolution 3 technology with "Performance" mode and frame generation enabled versus AMD FSR 3 OFF, on a test system configured with an AMD Ryzen 7 7800X3D CPU, AMD Radeon RX 6750 XT, RX 7600, RX 6650 XT GPUs, 32GB DDR5-6000 RAM, MSI MEG x670E ACE motherboard, AMD Software: Adrenalin Edition 23.9.3 driver, and Windows 11 Pro 2022 Update, using the Forspoken built-in benchmark at 2560 x 1440, "Ultra-High" graphics preset, and DirectX 12. Performance is dependent on the AMD FSR 3 quality mode selected. AMD FSR 3 requires developer integration and is available in select games. Laptop manufacturers may vary configurations, yielding different results. RS-599

RS-612 Testing by AMD as of October 11, 2023, on the AMD Radeon RX 7900 XTX, RX 7800 XT, and RX 6800 XT graphics cards using AMD Software: Adrenalin Edition 23.10.1 driver, AMD Smart Access Memory technology, and AMD FidelityFX Super Resolution 3 technology with "Performance" mode and frame generation enabled versus AMD FSR 3 OFF, on a test system configured with an AMD Ryzen 7 7800X3D CPU, 32GB DDR5-6000 RAM, MSI MEG x670E ACE motherboard, and Windows 11 Pro 2022 Update, using the Immortals of Aveum AMD benchmark at 3840 x 2160, "Ultra" graphics preset, and DirectX 12. Performance is dependent on the AMD FSR 3 quality mode selected. AMD FSR 3 requires developer integration and is available in select games. System manufacturers may vary configurations, yielding different results. RS-612

RS-613 Testing by AMD as of October 11, 2023, on the AMD Radeon RX 6750 XT, RX 7600, and RX 6650 XT graphics cards using AMD Software: Adrenalin Edition 23.10.1 driver, AMD Smart Access Memory technology, and AMD FidelityFX Super Resolution 3 technology with "Performance" mode and frame generation enabled versus AMD FSR 3 OFF, on a test system configured with an AMD Ryzen 7 7800X3D CPU, 32GB DDR5-6000 RAM, MSI MEG x670E ACE motherboard, and Windows 11 Pro 2022 Update, using the Immortals of Aveum AMD benchmark at 2560 x 1440, "Ultra" graphics preset, and DirectX 12. Performance is dependent on the AMD FSR 3 quality mode selected. AMD FSR 3 requires developer integration and is available in select games. System manufacturers may vary configurations, yielding different results. RS-613

RS-614 Testing by AMD as of September 25, 2023, on the AMD Radeon RX 7900 XT and RX 7700 XT graphics cards using AMD Software: Adrenalin Edition 23.9.3 driver, AMD Smart Access Memory technology, and AMD FidelityFX Super Resolution 3 (FSR 3) technology with "Performance" mode and frame generation enabled versus AMD FSR 3 OFF, on a test system configured with an AMD Ryzen 7 7800X3D CPU, 32GB DDR5-6000 RAM, MSI MEG x670E ACE motherboard, and Windows 11 Pro 2022 Update, using the Forspoken built-in benchmark at 3840 x 2160, "Ultra-High" graphics preset, and DirectX 12. Performance is dependent on the AMD FSR 3 quality mode selected. AMD FSR 3 requires developer integration and is available in select games. System manufacturers may vary configurations, yielding different results. RS-614

RS-615 Testing by AMD as of October 11, 2023, on the AMD Radeon RX 7900 XT and RX 7700 XT graphics cards using AMD Software: Adrenalin Edition 23.10.1 driver, AMD Smart Access Memory technology, and AMD FidelityFX Super Resolution 3 (FSR 3) technology with "Performance" mode and frame generation enabled versus AMD FSR 3 OFF, on a test system configured with an AMD Ryzen 7 7800X3D CPU, 32GB DDR5-6000 RAM, MSI MEG x670E ACE motherboard, and Windows 11 Pro 2022 Update, using the Immortals of Aveum AMD benchmark at 3840 x 2160, "Ultra" graphics preset, and DirectX 12. Performance is dependent on the AMD FSR 3 quality mode selected. AMD FSR 3 requires developer integration and is available in select games. System manufacturers may vary configurations, yielding different results. RS-615

RS-630 Testing conducted by AMD as of December 18th, 2023, on a test system configured with a Ryzen 5 7600X CPU, 32GB DDR5, Radeon RX 7600XT GPU, ASUS ROG Strix B650 motherboard, and Windows 11 Pro, with AMD Software: Adrenalin Edition 24.11 and AFMF ON/OFF and upscaled with FSR 2 at Quality Mode, on various titles including Starfield, The Last of Us - Part 1, Assassin's Creed Mirage, Baldur's Gate 3, Spiderman Miles Morales, Call of Duty: Modern Warfare 3, Hogwarts Legacy, Forza Horizon 5, Cyberpunk 2077, and Resident Evil 4. Game tested at 1080p resolution. Performance may vary. System manufacturers may vary configurations, yielding different results. RS-630.

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