

# AMD Radeon™ RX 7600 Graphics Card

## Game. Stream. Advance.

Next-generation gaming and streaming for everyone.

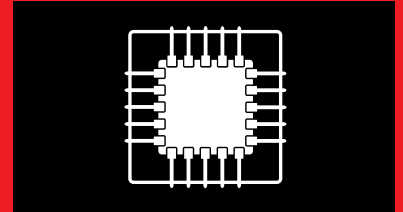
### TARGET AUDIENCE



GAMERS WHO WANT BREAKTHROUGH PERFORMANCE AT 1080P



STREAMERS WHO COLLABORATE WITH THEIR COMMUNITY



GAMERS WHO ACTIVELY UPLEVEL THEIR GAME

### SELL IT IN 60 SECONDS

#### GAMING HAPPENS AT 1080P

- Among gamers surveyed, 65% play at 1080p, and 54% are playing on 6GB video memory or less.<sup>1</sup>
- The AMD Radeon™ RX 7600 graphics card hits the sweet spot – bringing performance and immersive gameplay at 60+ fps on 1080p to a wide audience of gamers.<sup>2</sup>

#### AMD RDNA™ 3 ARCHITECTURE

- Industry-advancing technology helps deliver next-generation performance, visuals, and power efficiency for gamers.
- Gamers and creators enjoy new levels of performance with unified AMD RDNA™ 3 compute units, featuring new AI accelerators and 2nd-generation ray tracing accelerators for both performance and image quality.

#### NEXT-GEN STREAMING WITH AV1

- The AMD Radeon™ RX 7600 graphics card unlocks multimedia experiences with full AV1 encode/decode support<sup>3</sup>, delivering high fidelity, sharp images, and low file sizes at the same bitrate. AV1 streaming now available on YouTube and OBS Studio.
- AMD Noise Suppression<sup>4</sup> helps reduce background audio noise, offering greater clarity for game collaboration and streaming.

#### ELEVATED PERFORMANCE

- AMD FidelityFX™ Super Resolution (FSR) technology<sup>5</sup> boosts framerates in supported games and includes optimized anti-aliasing for high-quality, high-resolution gaming experiences.
- Radeon™ Super Resolution (RSR) technology<sup>6</sup> is an in-driver spatial upscaling feature allowing users to unleash new levels of performance on any supported game that runs in exclusive or borderless full-screen modes.

#### UPLEVELING FOR POWER USERS

- With AMD Software: Adrenalin Edition™ applications, gamers get total control over their graphics card and processor for fast and responsive gaming, incredible visuals, and an immersive experience.
- This software gives gamers access to custom overclocking<sup>7</sup> controls built directly into the Adrenalin Edition™ software.

#### SMART TECHNOLOGY OPTIMIZED

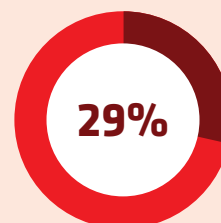
- Gamers can harness the full potential of AMD Ryzen™ processors plus Radeon™ graphics, with AMD Smart Access Memory™ technology.<sup>8</sup>
- Smart Access Video<sup>9</sup> offers up to 1.32x faster encoding with the AMD Radeon™ RX 7600 graphics card and AMD Ryzen™ 5 7600X processor.<sup>9</sup>

### PRODUCT SPECIFICATIONS

	GDDR6	AMD RDNA™ 3 COMPUTE UNITS	GAME CLOCK	BOOST CLOCK <sup>10</sup> (UP TO)	2 <sup>ND</sup> GENERATION INFINITY CACHE™	TOTAL BOARD POWER
AMD Radeon™ RX 7600	8GB	32	2.25 GHz	2.66 GHz	UP TO 32MB	165W

ON AVERAGE **29% FASTER**

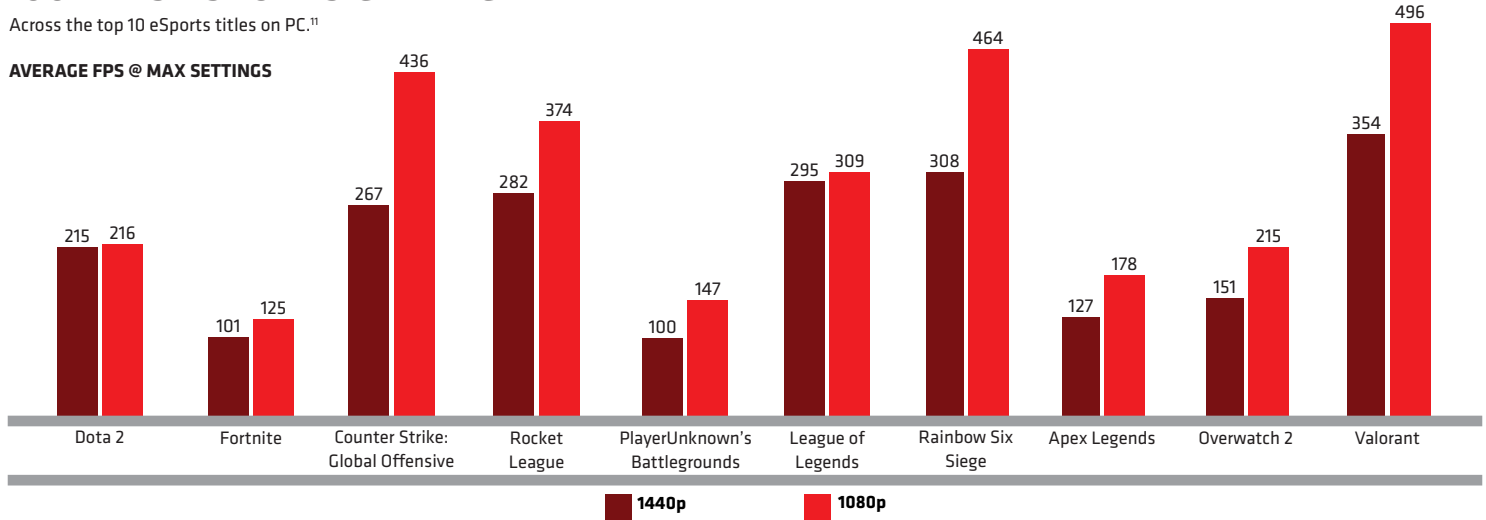
across select titles with AMD Radeon™ RX 7600 vs. RX 6600.<sup>2</sup>



## 100+ FPS ESPORTS GAMING

Across the top 10 eSports titles on PC.<sup>1</sup>

AVERAGE FPS @ MAX SETTINGS



## AMD RADEON™ RX 7600

Generational Comparison

	AMD RADEON™ RX 6600	AMD RADEON™ RX 7600
COMPUTE UNITS & RAY ACCELERATORS	28	32
STREAM PROCESSORS	1792	2048
GAME CLOCK	2.04 GHz	2.25 GHz
BOOST CLOCK <sup>10</sup> (UP TO)	2.49 GHz	2.66 GHz
GDDR6 MEMORY	8GB	8GB

	AMD RADEON™ RX 6600	AMD RADEON™ RX 7600
MEMORY BUS	128-bit	128-bit
AMD INFINITY CACHE™	32MB (1st Gen.)	32MB (2nd Gen.)
TOTAL BOARD POWER	132 w	165 w
DISPLAYPORT™	1.4a	1.4a/2.1*
AV1 HW. ENCODING <sup>3</sup>	NO	YES
MEMORY SPEED	14 Gbps	18 Gbps

\* DisplayPort™ 2.1 support is dependent on AIB card designs. Price subject to change.

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1. Gamers Surveyed for Steam Hardware Survey, April 2023.
2. Testing done by AMD performance labs May 8, 2023, on test systems configured with Ryzen™ 5 7600X CPU, 32GB DDR5-6000 memory, Windows 11 Pro on AMD Radeon™ RX 7600 (Driver 23.10.0116-230504a1), RX 6600 (Driver 23.4.2) and GeForce RTX 3060 12GB, RTX 3060 8GB, RTX 2060 6GB, GTX 1060 6GB (Driver 531.61) graphics cards with SAM on, to measure FPS in Star Wars Jedi: Survivor (DX12, High), The Witcher 3 Next Gen (DX12, Ultra+), Metro Exodus (DX12, Extreme), Call Of Duty: Modern Warfare 2 (DX12, Extreme), Cyberpunk 077 (DX12, Ultra), Cyberpunk 2077 (DX12, Ultra, RT Low), Control (DX12, High), Control (DX12, Medium, RT Medium), Borderlands 3 (DX12, Badass), Red Dead Redemption 2 (DX12, Ultra), Horizon Zero Dawn (DX12, Ultimate Quality), Dying Light 2 Stay Human (DX12, High), Dying Light 2 Stay Human (DX12, High, RT on), Shadow of the Tomb Raider (DX12, Highest), Hitman 3 (DX12, Ultra), Far Cry 6 (DX12, Ultra), Far Cry 6 (DX12, Ultra, RT on), Assassin's Creed Valhalla (DX12, Ultra High), Hogwarts Legacy (DX12, Ultra), The Last of Us Part I (DX12, High), God Of War (DX11, Ultra), Dead Island 2 (DX12, Ultra), Resident Evil 4 (DX12, Max), Resident Evil 4 (DX12, Max, RT on), Forza Horizon 5 (DX12, Maxed, RT Extreme), F1 22 (DX12, Ultra High), Dirt 5 (DX12, Ultra High, RT on), The Callisto Protocol (DX12, Ultra) at 1080p. System manufacturers may vary configurations, yielding different results. **RX-933**
3. 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. AMD Noise Suppression works on AMD Ryzen™ 6000 Series processors with integrated graphics, and AMD Radeon™ RX 6000 Series desktop graphics and newer. AMD 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**
5. AMD FidelityFX Super Resolution (FSR) versions 1 and 2 are available on select games which require game developer integration, and is 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-187**
6. 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**
7. 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**
8. 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**
9. Testing done by AMD performance labs April 26, 2023, on a test system configured with a Ryzen™ 9 7900X CPU, 32GB DDR5-6000 memory, Windows 11 Pro with an AMD Radeon™ RX 7600 graphics card (Driver 23.10.0116-230504a1) with SAM on, to measure AMD Smart Access Video uplift by testing it on and off in DaVinci Resolve Studio and by encoding 2x H264 4K streams into 1x H264 export. System manufacturers may vary configurations, yielding different results. **RX-937**
10. 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**
11. Testing done by AMD performance labs May 9, 2023, on a test system configured with a Ryzen 5 7600X CPU, 32 GB DDR5-5200 Memory, Windows 11 Pro with an AMD Radeon RX 7600 graphics card (Driver 23.10.0116-230504a1) with SAM on, to measure FPS in Dota 2, Fortnite, Counter Strike: Global Offensive, Rocket League, PlayerUnknown's Battlegrounds, League of Legends, Rainbow Six Siege, Apex Legends, Overwatch 2, and Valorant at 1080p and 1440p MAX settings. Game selection based on the TOP 10 eSports PC titles of 2022 on ESPORTSEARNINGS.COM. System Manufacturers may vary configurations, yielding different results. **RX-934**

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