<mark>AMD</mark> Ryzen 5000 CPUs Powered Razer Blade 14, Alienware m15, Dell G15 & HP OMEN <mark>Gaming</mark> Laptops Spotted

Hassan Mujtaba
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A day after it was reported that Razer might be working on its 14" Blade laptop with AMD Ryzen 5000 CPUs, more gaming laptops have been spotted which feature the Cezanne family of Zen 3 CPUs and NVIDIA's GeForce RTX 30 series GPUs.

AMD Ryzen 5000 CPUs Coming To Razer Blade, Alienware m15, Dell G15 & HP OMEN Gaming Laptops Soon!

All four gaming laptops were spotted by Rogame within the 3DMark and Geekbench benchmark databases. The variants include the recently reported Razer Blade 14, Alienware m15 Ryzen Edition, Dell G15, & the HP OMEN 15" gaming laptops, all of which are based on the AMD Ryzen 5000 CPUs & also feature NVIDIA's GeForce RTX 30 GPUs.

Razer Blade 14 With AMD Ryzen 9 5900HX & GeForce RTX 3060

The Razer Blade 14 seems to be the highest-end configuration in terms of CPU from the bunch. It is equipped with the AMD Ryzen 9 5900HX CPU which features 8 cores, 16 threads, a base clock of 3.30 GHz, a boost clock of 4.60 GHz, 20 MB of combined cache & a TDP of 45W which can be configured to 35W (cTDP down) & 54W (cTDP up).

While the Ryzen 9 5900HX does pack its own integrated graphics in the form of the Vega 8 GPU with 512 cores and a clock speed of 2100 MHz, the visuals on the laptop will primarily be handled by the NVIDIA GeForce RTX 30 series GPUs.

AMD Ryzen 5000H Cezanne 'Zen 3' High-Performace 35-45W SKUs

APU Name	APU Family	Architecture	Process	Cores / Threads	Base Clock	Boost Clock	L3 Cache	Graphics	GPU Clock	TDP
Ryzen 9 5980HX	Cezanne H	Zen 3	7nm	8 / 16	3.30 GHz	4.80 GHz	16 MB	8 CUs (512 SP)	TBD	45W+
Ryzen 9 5980HS	Cezanne H	Zen 3	7nm	8 / 16	3.00 GHz	4.80 GHz	16 MB	8 CUs (512 SP)	TBD	35-45W
Ryzen 9 5900HX	Cezanne H	Zen 3	7nm	8 / 16	3.30 GHz	4.60 GHz	16 MB	8 CUs (512 SP)	TBD	45W+
Ryzen 9 5900HS	Cezanne H	Zen 3	7nm	8 / 16	3.00 GHz	4.60 GHz	16 MB	8 CUs (512 SP)	TBD	35-45W
Ryzen 9 5900HS	Cezanne H	Zen 3	7nm	8 / 16	3.00 GHz	4.60 GHz	16 MB	8 CUs (512 SP)	TBD	35-45W
Ryzen 7 5800H	Cezanne H	Zen 3	7nm	8 / 16	3.20 GHz	4.40 GHz	16 MB	8 CUs (512 SP)	~2000 MHz	35-45W
Ryzen 5 5600H	Cezanne H	Zen 3	7nm	6 / 12	3.30 GHz	4.20 GHz	8 MB	TBD	TBD	35-45W
Ryzen 5 5600HS	Cezanne H	Zen 3	7nm	6 / 12	3.00 GHz	4.20 GHz	8 MB	TBD	TBD	35-45W

AMD Ryzen 5000 & NVIDIA GeForce RTX 30 Razer Blade 14 Gaming Laptop (Image Credits: Rogame)

The NVIDIA GeForce RTX 3060 seems to be the fastest option you can get on the Razer Blade 14 with AMD Ryzen 5000 CPUs. The GPU packs the GA106 GPU with 30 SMs, 3840 CUDA Core, and 6 GB of GDDR6 memory. The clock speeds are 1972 MHz (boost) and 1391 MHz (average) which do indicate that this could

be a Max-P variant instead of Max-Q. The memory was operating at its 12 Gbps reference clocks for a bandwidth of 288 GB/s.

NVIDIA GeForce RTX 30 Mobility GPU Lineup:

GPU Name	NVIDIA GeForce RTX 3050	NVIDIA GeForce RTX 3050 Ti	NVIDIA GeForce RTX 3060	NVIDIA GeForce RTX 3070	NVIDIA GeForce RTX 3080
Process Node	Samsung 8nm	Samsung 8nm	Samsung 8nm	Samsung 8nm	Samsung 8nm
GPU SKU	GA107?	GA107?	GA106	GA104-770	GA104-775
SMs	16	20	30	40	48
CUDA Cores	2048	2560	3840	5120	6144
Base Clock	TBA	TBA	1283 MHz	1290 MHz	1245 MHz
Boost Clock	TBA	TBA	1703 MHz	1620 MHz	1710 MHz
Memory Clock	12 Gbps	12 Gbps	12 Gbps	12 Gbps	12 Gbps
Memory Type	GDDR6	GDDR6	GDDR6	GDDR6	GDDR6
Memory Size	4 GB	4 GB	6 GB	8 GB	8/16 GB
Memory Bus	128-bit	128-bit	192-bit	256-bit	256-bit
Bandwidth	192 GB/s	192 GB/s	288 GB/s	384 GB/s	384 GB/s
TGP	50W?	60W?	60-115W	80-125W	80-150W+
Configurations	Max-Q Max-P	Max-Q Max-P	Max-Q Max-P	Max-Q Max-P	Max-Q Max-P
Launch	1H 2021?	1H 2021?	Q1 2021	Q1 2021	Q1 2021

Alienware m15 Ryzen Edition With Up To AMD Ryzen 9 5900HX & GeForce RTX 3070

Alienware will be unleashing its brand new m15 Ryzen Edition laptops and three configurations have been confirmed by Rogame. These include the flagship variant with AMD Ryzen 9 5900HX alongside NVIDIA's GeForce RTX 3070 graphics card, the AMD Ryzen 7 5800H with GeForce RTX 3070, and lastly, the AMD Ryzen 7 5800H with GeForce RTX 3060. All three models are listed as Alienware R5 whereas the existing Comet Lake-H-based variants are listed as Alienware R4.

* Click to view image.

* Click to view image.

* Click to view image.

Aside from the CPU/GPU specifications, all three models feature 16 GB of DDR4 memory and up to 512 GB of NVMe storage. Another thing to note is that the NVIDIA GeForce RTX 3070 based laptops are configured with the Max-Q configuration while the GeForce RTX 3060 based AMD m15 gaming laptops are configured with the Max-P GPUs.

Dell G15 5515 With AMD Ryzen 7 5800H & GeForce RTX 3060

Dell is also working on its brand new G15 Ryzen Edition laptop which will be featuring the AMD Ryzen 7 5800H CPU. The Ryzen 7 5800H features 8 cores, 16 threads, a base clock of 3.2 GHz & boost clocks of up to 4.4 GHz. The CPU also comes with 20 MB of combined cache and a default TDP of 45W. Considering the clocks reported by the benchmark, the Dell G15 5515 will come with the default TDP configuration.

AMD Ryzen 5000 & NVIDIA GeForce RTX 30 Dell G15 5515 Gaming Laptop (Image Credits: Rogame)

The GPU on the other hand is the NVIDIA GeForce RTX 3060. Dell is using the Max-Q variant which is made obvious with the lower clock frequency of the chip. Other specifications include up to 16 GB DDR4 memory and 1 TB of NVMe storage.

HP OMEN 15Z With AMD Ryzen 7 5800H & GeForce RTX 3070

Finally, we have the HP OMEN 15Z-En100 gaming laptop which is based around the AMD Ryzen 7 5800H CPU and NVIDIA GeForce RTX 3070 GPU. The GPU is set within its Max-Q configuration and the laptop itself features 16 GB of DDR4 memory along with 512 GB of NVMe storage. The laptop definitely looks like it will retail around $1699-$1899 US given that it packs the RTX 3070 but expect some great performance out of this beast.

[AMD Ryzen 5000 & NVIDIA GeForce RTX 30 HP Omen 15 Gaming Laptop (Image Credits: Rogame)](#)

While there are no details on pricing and release date, we can definitely expect these AMD gaming laptops on retail shelves around Computex 2021. We can expect prices starting at $1299 US and up to the $1999 US range.

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Unlike Nvidia, AMD Doesn't Mind If You Use Its Gaming GPUs To Mine Ethereum

Shivdeep Dhaliwal
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Advanced Micro Devices, Inc (NASDAQ: AMD) is taking a diametrically opposite stand to Nvidia Corporation (NASDAQ: NVDA) on putting restrictions on the use of its gaming graphics cards for cryptocurrency mining, PC Gamer reported.

What Happened: AMD reportedly confirmed that it would not be blocking any workload on its Radeon RX 6700 XT graphics processing units.

"We will not be blocking any workload, not just mining for that matter," said Nish Neelalojanan, product manager at AMD, according to PC Gamer.

"First of all, RDNA was designed from the ground up for gaming and RDNA 2 doubles up on this. And what I mean by this is, Infinity Cache and a smaller bus width were carefully chosen to hit a very specific gaming hit rate."

Neelalojanan, however, added a caveat that mining enjoys or scales with higher bandwidth and bus width which means there will be limitations caused by an "architectural level" for it.

Why It Matters: While Nvidia's 24GB GeForce RTX 3090 GPU can mine Ethereum (CRYPTO: ETHER) at up to 120 MH/s, higher-end RDNA 2 cards based on AMD's Navi 21 chip can manage 58-64 MH/s, noted PC Gamer. ETH traded 1.61% lower at $1,776.73 at press time.

AMD GPU drivers are based on Linux and are all open-source, which raises the question of whether the company could implement a mining block in the first place.

Last week, Nvidia said it had inadvertently unlocked ETH mining performance after it updated its drivers for the RTX 3060.

Nvidia tried to discourage the use of its RTX 3060 GPUs through drivers earlier so they would be 50% less efficient at mining ETH.

The chipmaker estimates that between $100 million and $300 million of its fourth-quarter revenue came from ETH miners.

Nvidia has introduced a cryptocurrency mining processor, which it said would help miners build "the most efficient data centers while preserving GeForce RTX GPUs for gamers," but has received criticism over its pricing.

Price Action: AMD shares closed 1.2% higher at $79.06 on Friday and fell 0.3% in the after-hours trading. On the same day, Nvidia shares closed 0.97% higher at $513.83 in the regular session and declined 0.13% in the after-hours trading.

Read Next:Ethereum, Dogecoin And Other Cryptocurrencies You Can Create Using Your Laptop

Photo by Daniel Foster on Flickr

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Intel declares war on ==AMD== with demo of Tiger Lake 8-core laptop CPU ==gaming== at 5GHz

Darren Allan
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Previously, Intel's Tiger Lake mobile processors topped out at quad-core models, but not for much longer.

Intel has shown off an incoming 8-core Tiger Lake laptop CPU running a game demo at 5GHz across multiple cores.

This happened at the GDC Showcase virtual conference in a session presented by Roger Chandler, who is VP and general manager of Client XPU Products and Solutions at Intel, as spotted by VideoCardz.

* Here are the best gaming laptops

* Don't want a laptop? Here's how to build a PC

* These are the best processors

It's made clear that this is a Tiger Lake-H (10nm) Core i9 8-core (16-thread) processor, although the exact model isn't given, but what we are told is that it is running at 5GHz on more than a single core (it's a fair bet that this is the flagship Core i9-11980HK, given that feat).

The game being demonstrated is Total War and it looks like the Tiger Lake chip copes well with the masses of CPU-taxing on-screen action, keeping things running nice and smoothly (presumably with integrated graphics – although it isn't made clear what the rest of the system spec of the preproduction 'enthusiast'-level laptop is).

Click to view video

The presentation also underlined at several points that Tiger Lake-H delivers 20 PCIe Gen4 lanes, to support PCIe 4 SSDs and discrete GPUs, for better performance all-round.

The overall positioning here is a mobile chip with "desktop-caliber performance" and Chandler confirms the expected Q2 launch for the Tiger Lake-H range, so we've not got long to wait. Computex, which takes place at the start of June, has been widely bandied about as the most likely launch platform for Intel.

Power up

Recent rumors indicate that the 11980HK will have a TDP of 45W, but will supposedly offer a 65W mode which could be the avenue for multiple cores to reach 5GHz boost speeds, as (theoretically) seen here. Thermals and cooling will, of course, be another major part of the puzzle in terms of sustaining this kind of performance.

It's thought that the flagship Core i9-11980HK will be backed up by a Core i9-11900H and Core i7-11800H which will also be 8-core and 16-thread mobile processors, but with somewhat slower clock speeds (as you would expect). Previously, 11th-gen Tiger Lake laptop chips topped out at quad-core models, although these are still impressively competitive.

* These are the best laptops around right now

Click to view image (Shutterstock.com / Alexander Tolstykh)

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AMD Confirms That FidelityFX Super Resolution 'FSR', Its NVIDIA DLSS Competitor, Will Launch This Year For RDNA 2 Powered Gaming PCs

Hassan Mujtaba
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In an interview with [PCWorld](), AMD reaffirmed its plans to launch the FidelityFX Super Resolution feature for RDNA 2 graphics cards within this year to tackle NVIDIA's DLSS. The information came from the latest Full Nerd Special podcast with AMD's Scott Herkelman as one of the guests of the show.

AMD's FidelityFX Super Resolution 'FSR' For RDNA 2 Radeon RX GPUs Competes With NVIDIA's DLSS For GeForce RTX GPUs This Year

It looks like the [rumor mill]() was a bit optimistic when it said that the FidelityFX Super Resolution feature for AMD Radeon RX GPUs based on the RDNA 2 architecture will release in Spring 2021. Scott Herkelman (CVP & GM at AMD Radeon) confirmed that their NVIDIA DLSS rival is still in the works and will launch this year. Scott also confirmed that the technology will be coming first to gaming PCs with Radeon RX GPUs but will later be extended to other platforms such as gaming consoles that are powered by RDNA 2 architecture too.

[Click to access link.]()

NVIDIA got the head start with its AI-based supersampling technology all the way back in 2018 when Turing based GeForce RTX 20 series was introduced. DLSS 1.0 had a pretty rough start & there weren't plenty of games that used the feature and while users got to see some impressive performance gains, those also came at a loss of image quality which was often too blurry when compared to playing at native resolution with standard AA methods. That changed over time and DLSS 2.0 showed the true form of the feature with the still impressive gains while retaining almost similar image quality as the native resolution. Even as of now, the feature has seen major updates with The Medium and Cyberpunk 2077 being the latest highlight titles and enablement of gaming at 8K on a single graphics card.

[Click to view image.]()

The difference that DLSS makes put the NVIDIA GeForce RTX 30 series graphics cards a league ahead of AMD's Radeon RX 6000 series.

It's progressing very well internally in our lab, but it's our commitment to the gaming community that it needs to be open that it needs to work across all things and game developers need to adopt it. Even though it's progressing well, we still have more work to do and not only internally but with our game developer partners. We want to launch it this year. We believe we can do that this year, but at the same time we a lot more work ahead of us. We need to make sure the image quality is there. We need to make sure it can scale from different resolutions. And at the same time that our game developers are happy with what we are producing.

— Scott Herkelman (AMD)

We also have an official acronym for the AMD FiedilityFX Super Resolution which is FSR in short as confirmed by Scott below:

It's probably one of the biggest software initiatives we have internally because we know how important it is if you want to turn on ray tracing that you don't just wanna have that competitive hit or your GPU get hit so hard. The FSR (that will be called the acronym), is something key to us to launch this year, but it's gonna a little bit more time. We are progressing well, but we still have some work to do.

— Scott Herkelman (AMD)

Scott also mentions that they aren't purely eyeing machine learning for FSR but in fact, they are going to work with developers and the gaming community to figure out which approach is best. NVIDIA's DLSS relies solely on AI-assisted machine learning which is powered by their Tensor core GPU architecture while AMD who seems to be more aligned with the Microsoft DirectML approach, could be run off standard hardware and not specialized AI cores.

You don't need machine learning to do it, you can do this many different ways and we are evaluating many different ways. What matters the most to us is what game developers want to use because if at the end of the day it is just for us, we force people to do it, it is not a good outcome. We would rather say: gaming community, which one of these techniques would you rather see us implement so that this way it can be immediately spread across the industry and hopefully cross-platform.

— Scott Herkelman (AMD)

AMD Says It Will Not Limit Cryptocurrency Mining Rate on Its Radeon RX GPUs

In another interview posted at PCGamer, an AMD representative confirmed that the red team does not plan on limiting the cryptocurrency mining rate for its Radeon RX GPUs as opposed to NVIDIA who tried to limit it through software hacks but subsequently leaked their own dev drivers that re-enabled full mining hash rate for its GeForce RTX 3060 graphics card earlier this week.

Click to view image.

"The short answer is no," Nish Neelalojanan, a product manager at AMD says regarding a potential mining limiter during a Radeon RX 6700 XT pre-briefing call. "We will not be blocking any workload, not just mining for that matter.

"That said, there are a couple of things. First of all, RDNA was designed from the ground up for gaming and RDNA 2 doubles up on this. And what I mean by this is, Infinity Cache and a smaller bus width were carefully chosen to hit a very specific gaming hit rate. However, mining specifically enjoys, or scales with, higher bandwidth and bus width so there are going to be limitations from an architectural level for mining itself."

"All our optimisation, as always, is going to be gaming first, and we've optimised everything for gaming. Clearly gamers are going to reap a ton of benefit from this, and it's not going to be ideal for mining workload. That all said, in this market, it's always a fun thing to watch."

- PCGamer

Unlike NVIDIA, AMD isn't offering a mining-specific line of GPUs but there are rumors that they could be in the works. For cryptocurrency mining itself, AMD GPUs aren't that great compared to NVIDIA's Ampere offerings due to the large reliance on raw bandwidth that the mining algorithms require to deliver higher hash rates. AMD's top dog, the RX 6900 XT, offers around 60-70 MH/s in Ethereum while NVIDIA's GeForce RTX 3090 can crunch out up to 125 MH/s when tuned.

It makes the Ampere cards a more lucrative investment for miners but at the same time, due to the shortage of GPUs and the increased payout existing GPUs have to offer, there's no stopping them from gouging up even RX 6000 cards.

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Document NEWAGAE020210317eh3h000p2

AMD Radeon RX 6700 XT GPU gives gaming creators a great midlevel option

Lori Grunin
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CNEWSN
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You've gotta love an industry that keeps tossing out new gaming graphics processors that get snatched out of midair before you can catch them. The latest in what I hope is the last of these launches for a while is AMD's Radeon RX 6700 XT, the new entry-level graphics card in the company's RX 6000 generation. It follows the recently launched RX 6800, 6800 XT and 6900 and the GeForce RTX 3060, Nvidia's introduced entry-level card that incorporates its latest Ampere architecture.

Based on its $479 price and its overall performance, the 6700 XT competes with the similarly priced RTX 3060 Ti and RTX 3070.

The card ships March 18, with AMD offering both its own cards and third-party alternatives from all the usual suspects. It will also be available in regular retail PCs; HP has already announced that it's planning to add the card as an option in its Omen 25L and 30L desktops at the end of March, along with an AMD Ryzen 9 5900X option so you can take advantage of AMD's Smart Memory Access. AMD recently expanded SMA support down to the older Ryzen 3000 series CPUs as well.

Click to view image.

"Available" is a moving target for graphics cards these days. Pervasive shortages due to high demand by cryptocurrency miners, the efficiency of bots at snapping them up as fast as they go on sale, pandemic-related silicon shortages and other ancillary problems have made it nearly impossible for the rest of us to get our hands on any card worth buying and at a price that even remotely reflects the true worth of it. (A direct conversion of the price is laughable in this context, but $479 is approximately £340 or AU$610.)

Nvidiaattempted to address the out-of-stock problem by throttling the RTX 3060's mining-related performance, but soon after Nvidia itself accidentally circumvented the performance limiter with a driver update. (The driver was subsequently pulled.) I still expect the throttle to get hacked if the shortage goes on much longer. Which we expect.

AMD, on the other hand, is taking a more traditional supply-side approach which I don't have a lot of confidence in: working with retailers to restrict sales to one per customer, making both third-party and its own cards simultaneously available at launch, keeping its own cards on sale for a longer period (it usually stops selling its own after a certain amount of time post launch) and other tactics.

Specifications

AMD Radeon RX 6700 XT Memory 12GB DDR6 Memory bandwidth (GBps) 384 GPU clock (GHz, base/boost) 2.3/2.6 Memory interface 192 bit Texture fill rate (gigatexels per second) 413 Ray Accelerators 40 Stream cores 2,560 Texture mapping units 160 Compute Units 40 TGP/min PSU (watts) 230/650 Bus PCIe 4.0 x 16 Size 2 slots; 10.5 inches (267mm) long Price $479 Ship date March 18

The RX 6700 XT is a strong 1440p performer, hovering around the RTX 3070's spot. It generally lags that card but occasionally pulls ahead. Its one weak area looks like ray tracing, where it falls behind even the RTX 3060 on 3DMark's DXR (DirectX ray tracing) test. Unsurprising, given that Nvidia's got a generation of experience under its belt.

But with the 6700 XT, AMD continues to maintain its overall performance advantage over Nvidia's competing consumer cards for professional graphics. It doesn't require an optimized driver (like Nvidia's Studio drivers) or proprietary API support (Nvidia CUDA). Toss in the 6700 XT's 12GB of memory, and it's an excellent choice at its nominal price for video editing, notably Premiere Pro (as measured by UL's Procyon video editing benchmark, at least). It is bigger and more power hungry than the RTX 3070, however.

In the absence of rational real-world prices or availability, it's hard to make any sort of blanket recommendation for any graphics card at the moment. As long as the Radeon RX 6700 XT's price doesn't get

too high, whatever that means -- though it will likely remain lower than equivalent or faster cards -- it's a good choice for 1440p gamers and creatives on a budget. Especially if you're both.

Performance snapshot

Far Cry 5 (1080p)

MSI Aegis RS (6800) 76 MSI Aegis RS (6700 XT) 124 MSI Aegis RS (RTX 3060) 128 MSI Aegis RS (6800 XT) 131 MSI Aegis RS (RTX 3060 Ti) 137 MSI MEG Trident X (RTX 2070 Super) 138 Chronos (RTX 3080) 170

Note:

Longer bars indicate better performance (FPS)

Far Cry 5 (4K)

MSI Aegis RS (RTX 3060) 52 MSI Aegis RS (RTX 3060 Ti) 66 MSI Aegis RS (6700 XT) 74 MSI Aegis RS (6800) 92 Chronos (RTX 3080) 96 MSI Aegis RS (6800 XT) 97

Note:

Longer bars indicate better performance (fps)

Shadow of the Tomb Raider gaming test (1080p)

MSI Aegis RS (RTX 3060) 115 MSI Aegis RS (RTX 3060 Ti) 130 MSI Aegis RS (6800 XT) 140 MSI Aegis RS (6800) 140 MSI Aegis RS (RTX 3070) 143 MSI Aegis RS (6700 XT) 144 Origin PC Chronos (RTX 3080) 164

Note:

Longer bars indicate better performance (FPS)

Shadow of the Tomb Raider gaming test (1440p)

MSI Aegis RS (RTX 3060) 81 MSI Aegis RS (RTX 3060 Ti) 97 MSI Aegis RS (RTX 3070) 116 MSI Aegis RS (6800) 124 MSI Aegis RS (6700 XT) 124 Origin PC Chronos (RTX 3080) 130 MSI Aegis RS (6800 XT) 132

Note:

Longer bars indicate better performance (FPS)

Shadow of the Tomb Raider gaming test (4K)

MSI Aegis RS (RTX 3060) 43 MSI Aegis RS (RTX 3060 Ti) 52 MSI Aegis RS (RTX 3060 with DLSS) 52 MSI Aegis RS (RTX 3070) 62 MSI Aegis RS (6700 XT) 66 MSI Aegis RS (6800) 69 MSI Aegis RS (6800 XT) 79 Origin PC Chronos (RTX 3080) 89

Note:

Longer bars indicate better performance (FPS)

3DMark Time Spy

MSI Aegis RS (RTX 3060) 8669 MSI MEG Trident X (RTX 2070 Super) 10151 MSI Aegis RS (RTX 3060 Ti) 11349 MSI Aegis RS (6700 XT) 11698 MSI Aegis RS (RTX 3070) 12928 MSI Aegis RS (6800) 14261 Maingear Turbo (RTX 2080 Ti) 14463 MSI Aegis RS (6800 XT) 15899 Origin PC Chronos (RTX 3080) 16024

Note:

Longer bars indicate better performance

3DMark Fire Strike Ultra

MSI Aegis RS (RTX 3060) 5187 MSI MEG Trident X (RTX 2070 Super) 6181 MSI Aegis RS (RTX 3060 Ti) 7176 MSI Aegis RS (6700 XT) 8323 Maingear Turbo (RTX 2080 Ti) 8435 MSI Aegis RS (RTX 3070) 8533 Origin PC Chronos (RTX 3080) 10509 MSI Aegis RS (6800) 10541 MSI Aegis RS (6800XT) 12193

Note:

Longer bars indicate better performance

3DMark Variable Rate Shading (4K)

MSI Aegis RS (RTX 3060) 96.16 MSI Aegis RS (3060 Ti) 125.32 MSI Aegis RS (6700 XT) 136.09 MSI Aegis RS (RTX 3070) 150.06 MSI Aegis RS (6800) 169.24 MSI Aegis RS (6800 XT) 192.79 Maingear Turbo (RTX 3080) 200.45

Note:

Longer bars indicate better performance (FPS)

SpecViewPerf 13 SolidWorks (4K)

MSI Aegis RS (RTX 3060) 82.77 MS Aegis RS (3060 Ti) 88.66 MSI Trident X (RTX 2070 Super) 96.89 Maingear Turbo (late 2020) 100.13 Maingear Turbo (RTX 2080 Ti) 100.61 MSI Aegis RS (RTX 3070) 104.85 Origin PC Chronos (RTX 3080) 113.78 MS Aegis RS (6700 XT) 141.97 MSI Aegis RS (6800) 146.93 MSI Aegis RS (6800 XT) 178.17

Note:

Longer bars indicate better performance (FPS)

Configurations

Maingear Turbo (RTX 2080 Ti) Microsoft Windows 10 Home (2004); 3.8GHz Ryzen 9 3900XT; 32GB DDR4 SDRAM 3,600; 11GB Nvidia GeForce RTX 2080 Ti; 1TB SSD + 4TB HDD MSI Aegis RS (RTX 3060 Ti) Microsoft Windows 10 Home (2004); 3.8GHz Intel Core i7-10700K; 16GB DDR4 SDRAM 3,000; 8GB Nvidia GeForce RTX 3060 Ti; 1TB SSD MSI Aegis RS (RTX 3060) Microsoft Windows 10 Home (2H20); 3.8GHz Intel Core i7-10700K; 16GB DDR4 SDRAM 3,000; 12GB EVGA GeForce RTX 3060 XC Black Gaming; 1TB SSD MSI Aegis RS (RTX 3070 FE) Microsoft Windows 10 Home (1909); 3.8GHz Intel Core i7-10700K; 16GB DDR4 SDRAM 3,000; 8GB Nvidia GeForce RTX 3070 Founders Edition; 1TB SSD MSI Aegis RS (RX 6700 XT) Microsoft Windows 10 Home (2H20); 3.8GHz Intel Core i7-10700K; 32GB DDR4 SDRAM 3,200; 12GB AMD Radeon RX 6700 XT; 1TB SSD MSI Aegis RS (RX 6800 XT) Microsoft Windows 10 Home (1909); 3.8GHz Intel Core i7-10700K; 16GB DDR4 SDRAM 3,000; 16GB AMD Radeon RX 6800 XT; 1TB SSD MSI Aegis RS (RX 6800) Microsoft Windows 10 Home (1909); 3.8GHz Intel Core i7-10700K; 16GB DDR4 SDRAM 3,000; 16GB AMD Radeon RX 6800; 1TB SSD MSI Trident X (RTX 2070 Super) Microsoft Windows 10 Home (1909); (oc) 3.8GHz Intel Core i7-10700K; 32GB DDR4 SDRAM 2,932; 8GB Nvidia GeForce RTX 2070 Super; 1TB SSD Origin PC Chronos (RTX 3080) Microsoft Windows 10 Home (2004); Intel Core i9-10900K; 16GB DDR4 SDRAM 3,200; 10GB Nvidia GeForce RTX 3080 (EVGA); 1TB SSD + 500GB SSD

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| Lori Grunin/CNET | | | Lori Grunin/CNET
Document CNEWSN0020210317eh3h0005o

GADGETS NEWS
Asus launches new <mark>gaming</mark> laptops and desktops with the latest <mark>AMD</mark> Ryzen 5000 series CPU and Nvidia GeForce RTX 30 series graphics

Asus Republic of Gamers (ROG) has expanded its gaming laptop and desktop lineup with the range of new devices in India today. The new laptops belong to Strix and TUF series and include ROG Strix SCAR 15/17, Strix G17/G15, TUF A15 and ROG Strix Desktop GA35. The entire range is powered by AMD Ryzen 5000 series processors and Nvidia GeForce RTX 30 series graphics cards. ROG Strix SCAR 15/17, Strix G17/G15, TUF A15 and ROG Strix Desktop GA35: Price and availabilityROG Strix SCAR 15/17, Strix G17/G15, TUF A15 and ROG Strix Desktop GA35: FeaturesThe flagship Strix SCAR 15 and SCAR 17 features a fast 300Hz refresh rate with a 3ms response time. It is powered by Nvidia GeForce RTX 30 series graphics and Ryzen 5000 H-series processors. Both the laptops are also the first in the series to offer an optical-mechanical keyboard.

Apart from this, the laptop also supports Type-C charging.Both SCAR 15 and 17 laptops come with quad speakers backed by Dolby ATMOS technology and support two-way AI Noise Cancelation.The other two laptops in the series -- Strix G17 and Strix G15 are also based on similar concepts. The company says that these two machines are meant for everyday gamers and comes with esports features backed in. The ROG Strix GA35 is essentially the upgraded version of last year's GA35 which now features an upgraded Nvidia GeForce RTX 3080 graphics instead of RTX 2080 and powered by AMD Ryzen R9-5900X CPU. The TUF A15 also gets the same Ryzen 5000 H-series CPU and RTX 30 series GPU. Specifications:

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ASRock Unveils Its Custom Variants of The <mark>AMD</mark> Radeon RX 6700 XT, Include Phantom <mark>Gaming</mark> & Challenger Series

Alex Casas
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With the launch of the AMD Radeon RX 6700 XT coming up on the [17th of March](), [custom partner cards are being shown off]() and ASRock has 3 offerings. The three offerings are the Radeon RX 6700 XT Phantom Gaming D 12GB OC, the Radeon RX 6700 XT Challenger Pro 12GB OC, and the Radeon RX 6700 XT Challenger D 12GB graphics cards. Each card is meant for a different segment of the market.

The Custom Variants From ASRock Look To Be Attractive Options For 1440p Gamers If Priced Properly

The [AMD Radeon RX 6700 XT]() packs the Navi 22 XT GPU that features 40 compute units which equal to 2560 stream processors. The cores run at a clock speed of 2321 MHz base, 2424 MHz Game, and 2581 MHz boost on the reference card. The graphics chip also features 40 Ray accelerators for raytracing capabilities on the RDNA 2 based GPUs. It also features 12GB of GDDR6 memory at 16Gbps along with a 192-bit bus interface. It supports PCIe 4.0 as well as HDMI 2.1. The 6700 XT is positioned to be the king of 1440p gaming and by many reports, outperforms the RTX 3070.

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The ASRock lineup has one offering for each segment of the market. One high-end enthusiast model, the [Radeon RX 6700 XT Phantom Gaming D 12GB OC](), one mid-range model, the [Radeon RX 6700 XT Challenger Pro 12GB OC](), and finally the mainstream, more budget-oriented model, the [Radeon RX 6700 XT Challenger D 12GB]().

The major difference comes in the card design with the cooler as well as the lighting. The Radeon RX 6700 XT Phantom Gaming D 12GB OC is the only one of the three to feature RGB lighting with the ARGB fan, the side ARGB LED board, and ARGB pin-header. It features the triple-fan Phantom Gaming 3X cooling system with the middle fan having ARGB lighting.

* [Click to view image.]()

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The other two models, the Radeon RX 6700 XT Challenger Pro 12GB OC and the Radeon RX 6700 XT Challenger D 12GB, do not feature any lighting but have differing cooler designs. The Radeon RX 6700 XT Challenger Pro 12GB OC has a triple-fan cooler and ASRock's exclusive Striped Axial Fans. The Radeon RX 6700 XT Challenger D 12GB has a dual-fan cooler with ASRock's exclusive Striped Axial Fans. All three models use a metal backplate.

* [Click to view image.]()

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The custom variants from ASRock do look quite attractive, but the pricing is unknown. I'd expect the Radeon RX 6700 XT Challenger D 12GB to be near the MSRP for the reference card and the pricing for the other two models to be higher as they are a custom variant with a factory overclock.

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Can't get an RX 6900 XT? <mark>AMD gaming</mark> laptops might be here soon

Hamish Hector
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11 March 2021
TechRadar
TECHR
English
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AMD's gaming laptops could offer an alternative to the RX 6900 XT, but crypto miners could want them too.

With many of the best GPUs on the market almost impossible to buy, you might find that the latest generation of AMD gaming laptops can satiate your PC gaming needs. Thankfully, you might not have long to wait as a Radeon RX 6600M has been spotted in a leaked benchmark, suggesting that 'Big Navi' could be hitting our laptops sooner than we thought.

The leaked device will supposedly feature both an AMD CPU - the Ryzen 5 Pro 5650U - and AMD GPU - the Radeon RX 6600M. This would be the first time we've seen the RX 6600M - or any mobile 6000 series GPU - in the wild, though early reports suggest this one'll be a mid-range graphics card at best.

* AMD graphics cards - the best AMD GPUs you can buy today

* 20 games for laptops that won't melt your machine

* AMD loses GPU market share to Nvidia

อันนี้ก็เริ่มทดสอบเหมือนกัน pic.twitter.com/B8yp9t3Ts8March 11, 2021

The leaked image was provided by a known data miner APISAK, who has previously supplied many GPU and CPU-related information via their Twitter page. As with all rumors, take all this with a healthy serving of salt as we can't confirm anything that didn't come from an official source.

For those desperate to get their hands on AMD's flagship Radeon RX 6900 XT and 6800 XT to boost their PC's power, this new laptop might not quite be what you want. However the leak suggests an announcement could be on the way soon - with the potential to get more powerful options too.

Will laptop GPUs stop me getting one for my desktop?

In short, no, these new graphics cards won't slow down the rate at which AMD's best desktop options are produced. This is because, according to manufacturers, the main issue with the ongoing GPU shortage is demand and not a supply of raw materials.

The demand is so much higher than expected because not only are gamers looking to upgrade their hardware, but cryptominers also want the graphics cards so they can use the GPU's style of processing to mine Bitcoin, Ethereum and Dogecoin.

Could there be a shortage of AMD laptops?

There's a decent chance that the top grade laptops could also sell out as quickly as AMD's best GPUs. We've already seen the same happen with the RTX 3000 laptops in China, with miners looking to invest in processing power however they can.

Hopefully efforts by GPU manufacturers to inhibit important mining stats and introducing crypto specific hardware will help, but we'll have to wait and see on those fronts.

To be in with your best shot at grabbing the tech you want, make sure to keep an eye out for any AMD announcements, and be ready to snag one of their laptops the moment they are officially released.

* Best cheap laptop deals and sales for March 2021

Via Notebook Check

Radeon RX 6700 XT (AMD)

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Samsung Reveals First ==AMD== FreeSync Premium Pro TVs, Mini LED ==Gaming== Monitors

Scharon Harding
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2 March 2021
Tom's Hardware
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English
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Samsung announced TVs with AMD's most advanced FreeSync, as well as a mini LED version of the Odyssey G9 monitor.

Samsung's 2021 The Frame TV has AMD FreeSync Premium Pro. (Image credit: Samsung)

Samsung just leveled the playing field a bit in the battle between TVs and gaming monitors. PC monitors have long held an advantage over TVs for gaming, largely due to speedier refresh rates and response times. The best gaming monitors also fight screen tearing with some flavor of Adaptive-Sync. TVs, meanwhile, have made advanced display technologies, like OLEDand mini LED, more attainable. Today, Samsung threw bones toward both corners, announcing the first TV with AMD's most advanced screen tearing fighting technology and the marriage of its "Quantum Mini LED" technology and Samsung Odyssey G9 curved gaming monitor.

Samsung's Q70A TV has AMD FreeSync Premium Pro. (Image credit: Samsung)

During its Unbox and Discover event today, Samsung debuted the first TVs to include AMD FreeSyncPremium Pro, which will work with both PCs and gaming consoles, like the new PlayStation 5 andXbox Series X. FreeSync Premium Pro will be available on Samsung's 4K resolution Q70A and up, as well as the 2021 version of its customizable TV, aptly named The Frame.

There are numerous TVs available from Samsung, as well as from LG, with FreeSync Premium, which calls for a minimum 120 Hz refresh rate and adds low framerate compensation (LFC) compared to standard FreeSync. FreeSync Premium Pro takes things a step further by also supporting HDRcontent.

The vendor's also throwing in a new Game Bar, which helps gamers monitor "critical aspects of play," according to today's announcement, and use Samsung's Super Ultrawide Gameview feature, enabling ultrawide aspect ratios more commonly found in PC monitors than TVs.

Samsung Odyssey G9 at CES 2020 (Image credit: Tom's Hardware)

But the electronics giant also had news to share with gamers committed to PC monitors, however. The Samsung Odyssey G9 needed no help being extreme. With a 1000R curve, it's already as curvy as gaming monitors get today. However, Samsung upped the premium ante today by unveiling the 2021 version of the monitor with Quantum Mini LEDs. The 2020 version uses QLED, which is just another type of LEDs invented by Samsung for improved brightness and color.

Quantum Mini LEDs are already available in Samsung TVs, but the 2021 Odyssey G9 will mark one of the first mini LED gaming monitors, if not the first (depending on when it's actually available to buy.).

According to Samsung, its Quantum Mini LEDs are 1/40th the height of a standard LED (what you'll find in the vast majority of gaming monitors). Additionally, "instead of using a lens to disperse light and a package to fix the LED in place, [a] Quantum Mini LED has incredibly thin microlayers filled with many more LEDs." Samsung's Quantum Matrix Technology is supposed to enable precise control over those tiny LEDs to help fight blooming, also known as the halo effect. This would be particularly impressive, as even premium gaming monitors with FALDbacklights can fall victim to the halo effect.

We already saw what the power of mini LEDs could do for image quality, particularly contrast, in our review of the Asus ProArt PA32UCX, a monitor for professionals. But we've yet to see the technology in a PC monitor built for gaming. Asusand Acerhave both promised to release their own mini LED gaming monitors, but that hasn't happened yet.

samsung the frame tv (Samsung)

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Acer launches Acer Aspire 7 <mark>gaming</mark> laptop – India's first laptop powered by <mark>AMD</mark> Ryzen(TM) 5000 Series Mobile Processors, on Flipkart

administrator
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* The new Aspire 7 features AMD Ryzen(TM) 5000 U-Series Mobile Processors paired with NVIDIA GeForce GTX(TM) 1650 GPU in a sleek minimalist design

* The Aspire 7 can be specified with up to 32 GB of DDR4, and a 1 TB PCIe SSD

* The Aspire 7 features an 81.6% screen to body ratio on the 15.6-inch Full-HD display

* The new Aspire 7 gaming laptop weighs 2.15 kgAcer India has unveiled its new Aspire 7 gaming laptop, powered by the much-awaited AMD Ryzen(TM) 5000 Series Mobile Processor. With the AMD "Zen 3" core architecture and industry leading 7nm process technology, the Aspire 7 will be available on India's homegrown e-commerce marketplace Flipkart and Acer online brand store. Acer's new Aspire 7 gaming laptop boasts AMD's latest generation mobile processor and NVIDIA GeForce GTX(TM) 1650 GPU graphics which will help gamers get the most out of the 15.6" screen with a large screen-to-body ratio. The new Aspire 7 is designed as a powerful, well-rounded laptop with minimalist designs, ideal for gamers who particularly care about performance, display quality, weight, and battery life at an affordable price. The Aspire 7 is all about delivering users with everything necessary to express themselves and their passions.With innovation at its core, Acer goes the extra mile to ensure its gaming machines offer the right design and power for the best gaming experience. With the latest AMD Ryzen(TM) Mobile Processors powering the Aspire 7 gaming laptop, gamers now have more features packed in sleek design to lift their gaming experience to a whole new level with the right amount of specifications and value price point.Speaking on the launch, Sudhir Goel, Chief business officer, Acer India said, "Being the leader in PC gaming segment our aim is to bring to market the best of technology for our gaming fans. Aspire 7 gaming laptop stands testament to our commitment with cutting-edge AMD Ryzen 5000 Series Mobile Processor and advanced features to give the gamers an immersive gaming experience. Aspire 7 range of laptops have been a huge success in the Indian market with its blend of powerful performance, design and affordable pricing giving gamers the chance to enjoy AAA titles easily. 2021 is going to be an exciting year for us and our partnership with AMD and Flipkart will bring in more innovation to our consumers' doorsteps as PCs become an integral part of our lives."Vinay Sinha, Managing Director – India Sales, AMD said, "AMD's collaboration with Acer spans several years of constant innovation across product categories. We are excited to bring the first AMD Ryzen(TM) 5000 Series laptop to India along with Acer, as they launch the new Aspire 7 in the region. With the powerful "Zen 3" core architecture, AMD Ryzen(TM) 5 5500U processors deliver unprecedented performance and efficiency to work, play and connect. We are confident that the Aspire 7 laptop will let users enjoy popular gaming titles and captivate them with its sleek design and features."Commenting on the launch, Rakesh Krishnan, Senior Director, Electronics at Flipkart said, "The year 2020 has accelerated several shifts in the laptop industry, particularly with high performance laptops gaining more traction among customers for gaming and business requirements. As a homegrown player which is at the forefront of serving customers' evolving needs, Flipkart closely works with its partners in bringing the best in class technological solutions to the doorsteps of millions of our customers across the country. With a nuanced understanding of our customers coupled with Acer's powerful innovations, we are hopeful of expanding the gaming market in India and meeting the varied requirements of our customers in a meaningful way"Ultimate Performance. Uncompromised Battery Life.Acer's new Aspire 7 powered by AMD Ryzen(TM) 5 5500U Mobile Processor with NVIDIA 1650 graphics card combines to give an extremely fluid gaming experience with battery life that lasts up to 11.5 hours* (based on web browsing test results). Thanks to the LED-backlit keyboard, users can work and play like a boss well into the night and dominate the gameIt combines Dual-channel DDR4 SDRAM support and upgradeable to 32 GB using two soDIMM modules to get incredibly fast frame rates in demanding titles on a thin and light gaming laptop with amazing battery life. Now you never compromise on your gaming laptop again.Stunning visual experience:The Aspire 7 comes with the stunning FHD narrow border 15.6-inch display screen that offers great color reproduction. It is further enhanced by Acer's own suite of Color Intelligence and ExaColor software with the two narrow bezels and an impressive 81.61% screen-to-body ratio and its BluelightShield technology allows adjusting of the screen's blue-light emission over extended periods of

use.Latest Connectivity:It effortlessly streams gameplay Wi-Fi 6 AX200 with 2×2 MU-MIMO technology and features the latest connectivity, with USB-C(TM) for superfast data transfer at up to 5 Gbps. All that power is housed in a chassis weighing just 2.15 kg, for a gaming PC without compromising on performance.Pricing and Availability:Aspire 7 featuring AMD Ryzen 5 5500U Mobile Processor is available at a starting price from Rs 54,990 on Flipkart and Acer online store

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