

# Videocard Benchmarks

Over 1,000,000 Video Cards Benchmarked


## Video Card List

Below is an alphabetical list of all Video Card types that appear in the charts. Clicking on a specific processor name will take you to the chart it appears in and will highlight it for you.

**Videocards** *Last Updated: 10th of May 2023*

Columns

Show  entries

Videocard Name <input type="text" value="Search..."/>	G3D Mark	G2D Mark	TDP (W)	Category
	Min... Max...	Min... Max...	Min... Max...	
<a href="#">GeForce RTX 4090</a>	39,604	1,326	450	Desktop
<a href="#">GeForce RTX 4080</a>	35,375	1,273	320	Desktop
<a href="#">GeForce RTX 4070 Ti</a>	31,989	1,214	285	Desktop
<a href="#">Radeon RX 7900 XTX</a>	31,988	1,261	355	Desktop
<a href="#">GeForce RTX 4090 Laptop GPU</a>	30,740	1,053	150	Mobile
<a href="#">GeForce RTX 3090 Ti</a>	29,871	1,221	450	Desktop
<a href="#">Radeon RX 7900 XT</a>	29,387	1,184	315	Desktop
<a href="#">Radeon RX 6950 XT</a>	29,251	1,032	335	Desktop
<a href="#">GeForce RTX 4080 Laptop GPU</a>	27,541	1,058	150	Mobile
<a href="#">GeForce RTX 3080 Ti</a>	27,457	1,097	350	Desktop
<a href="#">Radeon RX 6900 XT</a>	27,030	1,065	300	Desktop
<a href="#">GeForce RTX 3090</a>	26,984	1,048	350	Desktop
<a href="#">GeForce RTX 3080 12GB</a>	26,862	1,098	350	Desktop

Video Card Name	G3D Mark	G2D Mark	TDP (W)	Category
-----------------	----------	----------	---------	----------

[Home](#) Video Card ▼

<a href="#">GeForce RTX 3070 Ti</a>	23,847	1,055	290	Desktop
<a href="#">RTX A5000</a>	23,365	1,036	230	Workstation
<a href="#">RTX A6000</a>	22,594	888	300	Workstation
<a href="#">GeForce RTX 3070</a>	22,512	1,002	220	Desktop
<a href="#">Radeon RX 6800</a>	22,486	986	250	Desktop
<a href="#">GeForce RTX 2080 Ti</a>	21,885	939	250	Desktop
<a href="#">Radeon RX 6750 XT</a>	21,588	954	250	Desktop
<a href="#">RTX 6000 Ada Generation</a>	21,071	743	NA	Unknown
<a href="#">RTX A4500</a>	20,828	1,031	NA	Unknown
<a href="#">GeForce RTX 3060 Ti</a>	20,641	1,004	200	Desktop
<a href="#">NVIDIA A10</a>	20,591	1,111	NA	Unknown
<a href="#">GeForce RTX 3080 Ti Laptop GPU</a>	20,459	867	115	Mobile
<a href="#">RTX 5000 Ada Generation Laptop GPU</a>	20,404	612	NA	Unknown
<a href="#">TITAN V</a>	19,920	869	250	Desktop
<a href="#">Radeon RX 6700 XT</a>	19,912	962	230	Desktop
<a href="#">TITAN RTX</a>	19,896	830	280	Workstation
<a href="#">GeForce RTX 4070 Laptop GPU</a>	19,717	796	115	Mobile
<a href="#">Radeon PRO W6800</a>	19,596	936	NA	Unknown
<a href="#">GeForce RTX 2080 SUPER</a>	19,583	933	250	Desktop
<a href="#">GeForce RTX 4060 Laptop GPU</a>	19,449	829	115	Mobile
<a href="#">RTX 4000 SFF Ada Generation</a>	19,400	783	NA	Unknown
<a href="#">Quadro RTX 8000</a>	19,398	884	260	Workstation
<a href="#">Quadro GV100</a>	19,325	913	250	Workstation
<a href="#">TITAN Xp COLLECTORS EDITION</a>	19,304	917	250	Desktop
<a href="#">Radeon RX 6700</a>	19,112	915	NA	Unknown
<a href="#">RTX A4000</a>	19,112	967	140	Workstation
<a href="#">Quadro RTX 6000</a>	19,106	810	295	Workstation
<a href="#">Radeon RX 6850M XT</a>	18,871	672	NA	Unknown
<a href="#">GeForce RTX 2080</a>	18,820	916	250	Desktop
<a href="#">NVIDIA A10G</a>	18,724	530	NA	Unknown
<a href="#">NVIDIA TITAN Xp</a>	18,709	898	250	Desktop
<a href="#">GeForce RTX 3070 Ti Laptop GPU</a>	18,537	798	115	Mobile
<a href="#">GeForce GTX 1080 Ti</a>	18,516	944	250	Desktop
<a href="#">Tesla P40</a>	18,369	768	NA	Unknown
<a href="#">GeForce RTX 2070 SUPER</a>	18,259	895	215	Desktop
<a href="#">RTX A5500 Laptop GPU</a>	18,208	753	NA	Unknown
<a href="#">RTX 3500 Ada Generation Laptop GPU</a>	17,923	580	NA	Unknown
<a href="#">RTX A4500 Laptop GPU</a>	17,891	730	NA	Unknown
<a href="#">A40-48Q</a>	17,864	522	NA	Unknown
<a href="#">Radeon RX 6650 XT</a>	17,806	933	176	Desktop
<a href="#">Radeon Pro W5700X</a>	17,591	1,060	NA	Unknown
<a href="#">Radeon RX 6600S</a>	17,368	649	NA	Unknown
<a href="#">RTX A5500</a>	17,337	813	NA	Unknown
<a href="#">GeForce RTX 3060</a>	17,211	981	170	Desktop
<a href="#">TITAN V CEO Edition</a>	16,988	1,086	250	Desktop
<a href="#">Radeon RX 6700 XT</a>	16,888	916	230	Desktop

Video Card Name	G3D Mark	G2D Mark	TDP (W)	Category
-----------------	----------	----------	---------	----------

[Home](#) Video Card ▼

<a href="#">RTX 2000 Ada Generation Laptop GPU</a>	16,738	546	NA	Unknown
<a href="#">GeForce RTX 3080 Laptop GPU</a>	16,703	658	115	Mobile
<a href="#">Radeon RX 5700 XT 50th Anniversary</a>	16,614	958	235	Desktop
<a href="#">GeForce RTX 2060 SUPER</a>	16,605	872	175	Desktop
<a href="#">Radeon RX 6600 XT</a>	16,514	944	160	Desktop
<a href="#">Tesla V100-SXM2-16GB</a>	16,235	406	NA	Unknown
<a href="#">GeForce RTX 2070</a>	16,176	833	175	Desktop
<a href="#">Quadro RTX 5000</a>	16,171	769	230	Workstation
<a href="#">Radeon Pro Vega II Duo</a>	15,977	917	NA	Unknown
<a href="#">Radeon PRO W6600</a>	15,965	1,059	NA	Unknown
<a href="#">RTX A5000 Laptop GPU</a>	15,953	610	165	Mobile, Workstation
<a href="#">Miracast display port driver V3</a>	15,910	604	NA	Unknown
<a href="#">GeForce RTX 2060 12GB</a>	15,873	843	185	Desktop
<a href="#">RTX A4000 Laptop GPU</a>	15,849	565	140	Mobile, Workstation
<a href="#">GeForce RTX 4050 Laptop GPU</a>	15,784	650	115	Mobile
<a href="#">Quadro P6000</a>	15,714	738	250	Workstation
<a href="#">Radeon Pro W5700</a>	15,632	918	205	Desktop
<a href="#">Quadro GP100</a>	15,608	821	235	Workstation
<a href="#">Radeon Pro Vega II</a>	15,592	816	NA	Unknown
<a href="#">GeForce RTX 3070 Laptop GPU</a>	15,566	655	115	Mobile
<a href="#">GeForce GTX 1080</a>	15,478	896	180	Desktop
<a href="#">Quadro RTX 4000</a>	15,469	895	160	Workstation
<a href="#">Radeon RX 6800S</a>	15,185	708	100	Mobile
<a href="#">Radeon RX 6600</a>	15,180	897	132	Desktop
<a href="#">GeForce RTX 2080 (Mobile)</a>	15,107	812	150	Mobile
<a href="#">Quadro RTX 5000 (Mobile)</a>	14,832	705	110	Mobile, Workstation
<a href="#">Radeon RX 5700</a>	14,724	910	180	Desktop
<a href="#">GeForce GTX 1070 Ti</a>	14,690	882	180	Desktop
<a href="#">RTX A3000 12GB Laptop GPU</a>	14,651	591	NA	Unknown
<a href="#">Radeon RX Vega 64</a>	14,632	812	295	Desktop
<a href="#">Radeon Pro Vega 64X</a>	14,631	948	NA	Unknown
<a href="#">Radeon RX 6700S</a>	14,525	735	80	Mobile
<a href="#">Radeon 6700</a>	14,159	949	NA	Unknown
<a href="#">GeForce RTX 2060</a>	14,104	754	160	Desktop
<a href="#">GeForce RTX 2070 Super with Max-Q Design</a>	14,023	649	80	Mobile
<a href="#">RTX A2000 12GB</a>	14,023	1,060	NA	Unknown
<a href="#">Radeon Pro WX 8200</a>	13,926	819	230	Desktop
<a href="#">GeForce GTX 980 Ti</a>	13,888	859	250	Desktop
<a href="#">Quadro RTX 5000 with Max-Q Design</a>	13,859	602	80	Mobile, Workstation
<a href="#">Radeon RX 5600 XT</a>	13,839	898	150	Desktop
<a href="#">RTX A2000</a>	13,789	1,013	NA	Unknown
<a href="#">GeForce RTX 2080 Super with Max-Q Design</a>	13,715	593	80	Mobile
<a href="#">NVIDIA TITAN X</a>	13,660	912	250	Desktop
<a href="#">Radeon RX Vega 56</a>	13,587	787	210	Desktop
<a href="#">Radeon Pro WX 9100</a>	13,554	796	230	Desktop
<a href="#">GeForce GTX 1070</a>	13,510	850	150	Desktop

Videocard Name	G3D Mark	G2D Mark	TDP (W)	Category
----------------	----------	----------	---------	----------

[Home](#) Video Card ▼

<a href="#">Radeon RX 6700M</a>	13,426	596	135	Mobile
<a href="#">GeForce RTX 3060 Laptop GPU</a>	13,318	586	115	Mobile
<a href="#">A10-8Q</a>	13,235	479	NA	Unknown
<a href="#">GeForce RTX 2080 with Max-Q Design</a>	13,190	544	90	Mobile
<a href="#">GeForce GTX TITAN X</a>	13,158	853	250	Desktop
<a href="#">Radeon PRO W6600X</a>	13,113	856	NA	Unknown
<a href="#">GeForce RTX 3050</a>	13,032	960	130	Desktop
<a href="#">GeForce GTX 1660 Ti</a>	12,948	822	120	Desktop
<a href="#">Radeon Pro Vega 64</a>	12,919	803	NA	Unknown
<a href="#">Quadro P5200</a>	12,846	697	NA	Mobile
<a href="#">GeForce GTX 1660 SUPER</a>	12,812	820	125	Desktop
<a href="#">Radeon RX 6800M</a>	12,785	567	145	Mobile
<a href="#">Radeon RX 5600 OEM</a>	12,738	1,015	NA	Unknown
<a href="#">Quadro RTX 4000 with Max-Q Design</a>	12,688	568	80	Mobile
<a href="#">Radeon Pro 5700 XT</a>	12,687	829	130	Desktop
<a href="#">Quadro P5200 with Max-Q Design</a>	12,659	507	NA	Unknown
<a href="#">Tesla T10</a>	12,650	595	NA	Unknown
<a href="#">Radeon RX 6650M</a>	12,618	625	NA	Unknown
<a href="#">Radeon Pro Vega 56</a>	12,607	829	NA	Desktop
<a href="#">RTX A3000 Laptop GPU</a>	12,496	478	130	Mobile, Workstation
<a href="#">Quadro P4200 with Max-Q Design</a>	12,406	651	NA	Workstation
<a href="#">Quadro RTX 4000 (Mobile)</a>	12,384	553	110	Mobile
<a href="#">GeForce RTX 2070 (Mobile)</a>	12,354	601	115	Mobile
<a href="#">Radeon RX 6850M</a>	12,274	714	NA	Unknown
<a href="#">Quadro P5000</a>	12,268	698	180	Workstation
<a href="#">Radeon Pro V520 MxGPU</a>	12,258	525	NA	Unknown
<a href="#">GeForce RTX 3050 OEM</a>	12,000	923	NA	Unknown
<a href="#">GeForce RTX 2070 with Max-Q Design</a>	11,903	494	80	Mobile
<a href="#">Quadro M6000 24GB</a>	11,879	733	250	Workstation
<a href="#">Radeon Pro 5700</a>	11,844	829	130	Desktop
<a href="#">Quadro M6000</a>	11,832	745	250	Workstation
<a href="#">GeForce GTX 1660</a>	11,744	792	120	Desktop
<a href="#">GeForce GTX 1080 with Max-Q Design</a>	11,549	745	110	Mobile
<a href="#">Quadro P4000</a>	11,523	821	105	Workstation
<a href="#">Radeon RX 5600</a>	11,393	906	150	Desktop
<a href="#">GeForce RTX 2060 (Mobile)</a>	11,355	540	80	Mobile
<a href="#">Radeon Pro Vega 48</a>	11,353	795	NA	Unknown
<a href="#">RTX A1000 6GB Laptop GPU</a>	11,177	480	NA	Unknown
<a href="#">GeForce GTX 980</a>	11,149	807	165	Desktop
<a href="#">Quadro RTX 3000</a>	11,050	527	80	Mobile, Workstation
<a href="#">RTX A1000 Embedded GPU</a>	11,047	1,310	NA	Unknown
<a href="#">GRID P40-12Q</a>	11,028	500	NA	Unknown
<a href="#">RTX A2000 8GB Laptop GPU</a>	10,888	540	NA	Unknown
<a href="#">Tesla T4</a>	10,867	579	NA	Unknown
<a href="#">Radeon Pro SSG</a>	10,498	601	NA	Unknown

Videocard Name	G3D Mark	G2D Mark	TDP (W)	Category
----------------	----------	----------	---------	----------

[Home](#) Video Card ▼

<a href="#">Tesla M40</a>	10,212	486	NA	Unknown
<a href="#">GeForce GTX 1660 Ti (Mobile)</a>	10,167	497	50	Mobile
<a href="#">GeForce GTX 1650 SUPER</a>	10,105	757	100	Desktop
<a href="#">RTX A2000 Laptop GPU</a>	10,102	470	95	Mobile, Workstation
<a href="#">GeForce RTX 3050 Ti Laptop GPU</a>	10,100	492	80	Mobile
<a href="#">GeForce GTX 1070 with Max-Q Design</a>	10,086	441	90	Mobile
<a href="#">GeForce GTX 1060</a>	10,072	760	120	Desktop
<a href="#">Radeon R9 Fury X</a>	10,058	840	NA	Unknown
<a href="#">GeForce RTX 2060 with Max-Q Design</a>	9,773	425	65	Mobile
<a href="#">GeForce GTX 1060 3GB</a>	9,743	781	120	Desktop
<a href="#">Radeon R9 Fury + Fury X</a>	9,741	811	275	Desktop
<a href="#">GeForce GTX 970</a>	9,643	779	145	Desktop
<a href="#">Radeon R9 Fury</a>	9,602	796	NA	Unknown
<a href="#">Radeon RX 590</a>	9,569	805	175	Desktop
<a href="#">GeForce RTX 3050 6GB Laptop GPU</a>	9,551	664	80	Mobile
<a href="#">RTX A1000 Laptop GPU</a>	9,501	512	NA	Unknown
<a href="#">Radeon RX 6500 XT</a>	9,478	844	107	Desktop
<a href="#">Radeon Ryzen 9 4900HSS</a>	9,461	417	NA	Unknown
<a href="#">Radeon R9 390X</a>	9,452	819	275	Desktop
<a href="#">GeForce GTX 780 Ti</a>	9,436	621	250	Desktop
<a href="#">Quadro P2200</a>	9,378	944	75	Workstation
<a href="#">GeForce RTX 3050 Laptop GPU</a>	9,349	461	75	Mobile
<a href="#">Quadro M5000</a>	9,320	679	150	Workstation
<a href="#">Radeon Pro 5600M</a>	9,281	691	50	Mobile
<a href="#">Radeon RX 5500 XT</a>	9,218	804	130	Desktop
<a href="#">NVIDIA A40</a>	9,170	502	NA	Unknown
<a href="#">Quadro P3200 with Max-Q Design</a>	9,164	551	NA	Unknown
<a href="#">Radeon Pro W5500</a>	9,162	837	125	Desktop
<a href="#">Quadro P4000 with Max-Q Design</a>	9,083	700	80	Mobile
<a href="#">Radeon R9 390</a>	9,078	816	275	Desktop
<a href="#">GeForce GTX TITAN Black</a>	9,057	605	250	Desktop
<a href="#">GeForce GTX TITAN Z</a>	8,987	656	375	Desktop
<a href="#">Radeon RX 580</a>	8,915	775	185	Desktop
<a href="#">GeForce GTX 1060 5GB</a>	8,909	597	120	Desktop
<a href="#">Radeon RX 5500</a>	8,795	785	150	Desktop
<a href="#">Tesla P4</a>	8,767	368	NA	Unknown
<a href="#">Radeon R9 290X</a>	8,736	786	NA	Unknown
<a href="#">Quadro P3200</a>	8,722	497	NA	Unknown
<a href="#">Radeon RX 480</a>	8,695	784	150	Desktop
<a href="#">GeForce GTX 1660 Ti with Max-Q Design</a>	8,687	375	60	Mobile
<a href="#">Radeon R9 295X2</a>	8,638	785	500	Desktop
<a href="#">Intel Arc A770</a>	8,624	614	225	Desktop
<a href="#">Quadro RTX 3000 with Max-Q Design</a>	8,622	347	60	Mobile
<a href="#">Radeon R9 290</a>	8,404	792	NA	Unknown
<a href="#">Radeon R9 290X / 390X</a>	8,389	699	290	Desktop

<b>Videocard Name</b>	<b>G3D Mark</b>	<b>G2D Mark</b>	<b>TDP (W)</b>	<b>Category</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

[Home](#) Video Card ▼

Videocard Name	G3D Mark	G2D Mark	TDP (W)	Category
<a href="#">Radeon Pro Duo</a>	8,294	720	350	Desktop
<a href="#">Tesla V100-PCI-E-32GB</a>	8,260	327	NA	Unknown
<a href="#">Intel Arc A750</a>	8,236	594	225	Desktop
<a href="#">GeForce GTX Titan</a>	8,205	629	250	Desktop
<a href="#">GeForce GTX 1060 (Mobile)</a>	8,161	444	80	Mobile
<a href="#">Radeon R9 290 / 390</a>	8,150	695	275	Desktop
<a href="#">Ryzen 5 4600HS with Radeon Graphics</a>	8,121	421	NA	Unknown
<a href="#">Radeon RX 470/570</a>	8,080	731	120	Desktop
<a href="#">Quadro K6000</a>	8,066	544	225	Workstation
<a href="#">Radeon Ryzen 9 6900HS</a>	8,066	625	NA	Unknown
<a href="#">GeForce GTX 780</a>	8,027	592	250	Desktop
<a href="#">Ryzen 9 6900HS</a>	8,005	836	NA	Unknown
<a href="#">FirePro W9100</a>	7,928	776	275	Workstation
<a href="#">Radeon RX 6500M</a>	7,927	419	NA	Unknown
<a href="#">GeForce GTX 1060 with Max-Q Design</a>	7,916	421	80	Mobile
<a href="#">Quadro M5500</a>	7,915	698	150	Mobile, Workstation
<a href="#">Radeon Pro WX 7100</a>	7,908	799	130	Workstation
<a href="#">GeForce GTX 1650</a>	7,849	585	75	Desktop
<a href="#">Radeon PRO W6400</a>	7,842	833	NA	Unknown
<a href="#">Radeon RX 580X</a>	7,798	885	185	Desktop
<a href="#">Radeon RX 580 2048SP</a>	7,792	665	NA	Unknown
<a href="#">Tesla M60</a>	7,771	563	NA	Unknown
<a href="#">Radeon RX 5600M</a>	7,765	504	150	Mobile
<a href="#">Radeon Pro 580</a>	7,753	943	NA	Unknown
<a href="#">T1200 Laptop GPU</a>	7,722	436	NA	Unknown
<a href="#">T1000</a>	7,702	856	NA	Unknown
<a href="#">Radeon Ryzen 9 4900HS</a>	7,687	339	NA	Unknown
<a href="#">Radeon RX 9300</a>	7,663	807	100	Desktop
<a href="#">T1000 8GB</a>	7,612	860	NA	Unknown
<a href="#">Radeon Pro 580X</a>	7,540	698	150	Desktop
<a href="#">GeForce GTX 1650 Ti</a>	7,538	395	55	Mobile
<a href="#">Tesla M6</a>	7,509	441	NA	Unknown
<a href="#">Radeon Pro 5300</a>	7,493	651	NA	Unknown
<a href="#">Radeon RX 6400</a>	7,447	703	53	Desktop
<a href="#">Radeon Ryzen 7 4800HS</a>	7,362	401	NA	Unknown
<a href="#">GeForce GTX 980M</a>	7,340	507	100	Mobile
<a href="#">Radeon Ryzen 9 7950X 16-Core</a>	7,331	689	NA	Unknown
<a href="#">FirePro W8100</a>	7,313	737	220	Workstation
<a href="#">Tesla P100-PCI-E-16GB</a>	7,225	572	NA	Unknown
<a href="#">Quadro T2000</a>	7,183	470	NA	Mobile
<a href="#">Tesla K80</a>	7,025	714	NA	Unknown
<a href="#">Quadro P2000</a>				

Showing 1 to 250 of 2,477 entries

[Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [10](#) [Next](#)

- Notes:**
- Price is obtained from our affiliates. \*\* after the price denotes the last seen price for products that are no longer available.
  - Videocard Value is calculated by taking G3D Mark / Price.
  - Power Performance is calculated by taking G3D Mark / TDP.
  - Test Date is the date of our first benchmark submission.

[Software](#)

[Hardware](#)

[BurnInTest](#)

[PerformanceTest](#)

[USB3.0 Loopback Plugs](#)

[USB2.0 Loopback Plugs](#)



[Video Card](#) ▼

[MemTest86](#)

[WirelessMon](#)

**Benchmarks**

[Management Console](#)

[CPU Benchmarks](#)

[Zoom Search Engine](#)

[Video Card Benchmarks](#)

[Free Software](#)

[Hard Drive Benchmarks](#)

[RAM Benchmarks](#)

[PC Systems Benchmarks](#)

[Android Benchmarks](#)

[iOS / iPhone Benchmarks](#)

[Software Marketshare](#)

[Internet Bandwidth](#)

[Services](#)

[Store](#)

[Support](#)

[Forums](#)

[USB Power Delivery Tester](#)

[Serial and Parallel Loopback Plugs](#)

**About Us**

[USB Short Circuit Testers](#)

[Company](#)

[Contact Us](#)

[The Press Room](#)

[International](#)

[Disclaimer](#)

[Refunds](#)

[Privacy](#)

[Social](#)



Copyright © 2023 PassMark® Software

