Videocard Benchmarks

Over 1,000,000 Video Card Benchmarks

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High End Video Card Chart

The following list is our ongoing real-world ranking of high end video cards as tested directly with real gaming software and benchmarks. The higher the G3D Mark rating the faster the video card is likely to be in games. Please see our separate video card charts for DirectX 9, DirectX 10, DirectX 11 and DirectX 12 video cards. Also see our charts for Workstation video cards and Mobile video cards.

Using the PT Boat Utility Suite (available for free) we have collected and analysed the results of many thousands of PassMark G3D Mark benchmarks to produce the following list of high end video cards ranked by their relative performance. The latest drivers from each of the hardware manufacturers were used for the tests (Nvidia 581.57, AMD Adrenalin 25.8.1 and Intel 32.0.101.6972). Only cards with 4 GB or more of video memory are included in the chart. Integrated graphics chips are usually unsuitable for gaming and are excluded from the chart. If your card is missing from the chart, you can add it by running the PassMark software and submitting the results to our free online database. Over 1,000,000 results have been collected so far.

passmarkpcs.com
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VIDEO CARD

- High End
- Low Mid Range
- Low End

- Next Chart
- Value Chart

- Video Card Reviews
- Video Card Forum

- GPU Computing Benchmarks

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1224 Mark

Price Performance

Videocard	PassMark - G3D Mark	Price (USD)
1	GeForce RTX 5090	36,244	1,999.00
2	GeForce RTX 5090 D	35,911	1,999.00
3	GeForce RTX 4090	35,287	1,599.00
4	RTX A6000	34,287	3,999.00
5	GeForce RTX 4090 D	34,284	1,599.00
6	GeForce RTX 5080	34,111	999.00
7	GeForce RTX 4080 SUPER	33,744	999.00
8	GeForce RTX 4080	33,744	999.00
9	GeForce RTX 5070 Ti	33,736	749.00
10	GeForce RTX 3090 Ti	33,736	1,999.00
11	GeForce RTX 3090	33,736	1,999.00
12	GeForce RTX 4070 Ti SUPER	33,736	749.00
13	GeForce RTX 4070 Ti	33,736	749.00
14	GeForce RTX 4070	33,736	749.00
15	GeForce RTX 3080 Ti	33,736	1,999.00
16	GeForce RTX 3080	33,736	1,999.00
17	GeForce RTX 3080 12GB	33,736	1,999.00
18	GeForce RTX 5070	33,736	749.00
19	GeForce RTX 3070 Ti	33,736	749.00
20	GeForce RTX 3070	33,736	749.00
21	GeForce RTX 3070 Ti Super 16GB Mobile	33,736	749.00
22	GeForce RTX 3070 Super 16GB Mobile (Laptop)	33,736	749.00
23	GeForce RTX 3070 Super 8GB Mobile (Laptop)	33,736	749.00
24	GeForce RTX 3070 Mobile / Max-Q	33,736	749.00
25	GeForce RTX 3060 Ti	33,736	749.00
26	GeForce RTX 3060	33,736	749.00
27	GeForce RTX 3060 12GB	33,736	749.00
28	GeForce RTX 3060 Mobile / Max-Q	33,736	749.00
29	GeForce RTX 3050 8GB Mobile (Laptop)	33,736	749.00
30	GeForce RTX 3050 6GB Mobile (Laptop)	33,736	749.00
31	GeForce RTX 3050	33,736	749.00
32	GeForce RTX 3050 A Mobile	33,736	749.00
33	GeForce RTX 3050 OEM	33,736	749.00
34	GeForce GTX 1660 Ti	33,736	749.00
35	GeForce GTX 1660 Super	33,736	749.00
36	GeForce GTX 1660	33,736	749.00
37	GeForce GTX 1650 Super	33,736	749.00
38	GeForce GTX 1650	33,736	749.00
39	GeForce GTX 1650 Mobile / Max-Q	33,736	749.00
40	GeForce GTX 1650 Ti Mobile	33,736	749.00
41	GeForce GTX 1650 Ti with Max-Q Design	33,736	749.00
42	GeForce GTX 1630	33,736	749.00
43	Radeon RX 7900 XTX	33,736	749.00
44	Radeon RX 7900 XT	33,736	749.00
45	Radeon RX 7900 GRE	33,736	749.00
46	Radeon RX 7800 XT	33,736	749.00
47	Radeon RX 7700 XT	33,736	749.00
48	Radeon RX 7600 XT	33,736	749.00
49	Radeon RX 7600	33,736	749.00
50	Radeon RX 7600 M XT	33,736	749.00
51	Radeon RX 7600 S	33,736	749.00
52	Radeon RX 7600 M	33,736	749.00
53	Radeon RX 7500	33,736	749.00
54	Radeon RX 7500 M	33,736	749.00
55	Radeon RX 7400	33,736	749.00
56	Radeon RX 6950 XT	33,736	749.00
57	Radeon RX 6900 XT	33,736	749.00
58	Radeon RX 6900 XT Liquid Cooled Ultra	33,736	749.00
59	Radeon RX 6800 XT	33,736	749.00
60	Radeon RX 6800	33,736	749.00
61	Radeon RX 6800M	33,736	749.00
62	Radeon RX 6750 XT	33,736	749.00
63	Radeon RX 6700 XT	33,736	749.00
64	Radeon RX 6700	33,736	749.00
65	Radeon RX 6700M	33,736	749.00
66	Radeon RX 6650 XT	33,736	749.00
67	Radeon RX 6650M	33,736	749.00
68	Radeon RX 6650M XT	33,736	749.00
69	Radeon RX 6600 XT	33,736	749.00
70	Radeon RX 6600	33,736	749.00
71	Radeon RX 6600M	33,736	749.00
72	Radeon RX 6600S	33,736	749.00
73	Radeon RX 6500 XT	33,736	749.00
74	Radeon RX 6500M	33,736	749.00
75	Radeon RX 6400	33,736	749.00
76	Radeon RX 6400M	33,736	749.00
77	Radeon RX 5700 XT	33,736	749.00
78	Radeon RX 5700	33,736	749.00
79	Radeon RX 5700 XT 50th Anniversary	33,736	749.00
80	Radeon RX 5700 M	33,736	749.00
81	Radeon RX 5600 XT	33,736	749.00
82	Radeon RX 5600	33,736	749.00
83	Radeon RX 5600 OEM	33,736	749.00
84	Radeon RX 5600M	33,736	749.00
85	Radeon RX 5500 XT	33,736	749.00
86	Radeon RX 5500	33,736	749.00
87	Radeon RX 5500M	33,736	749.00
88	Radeon RX 5300	33,736	749.00
89	Radeon RX 5300M	33,736	749.00
90	Radeon VII	33,736	749.00
91	Radeon Pro W7900	33,736	749.00
92	Radeon Pro W7800	33,736	749.00
93	Radeon Pro W7700	33,736	749.00
94	Radeon Pro W7600	33,736	749.00
95	Radeon Pro W7500	33,736	749.00
96	Radeon Pro W6900X	33,736	749.00
97	Radeon Pro W6800X Duo	33,736	749.00
98	Radeon Pro W6800X	33,736	749.00
99	Radeon Pro W6800	33,736	749.00
100	Radeon Pro W6600	33,736	749.00
101	Radeon Pro W6600M	33,736	749.00
102	Radeon Pro W6500M	33,736	749.00
103	Radeon Pro W6400	33,736	749.00
104	Radeon Pro W5700X	33,736	749.00
105	Radeon Pro W5700	33,736	749.00
106	Radeon Pro W5500X	33,736	749.00
107	Radeon Pro W5500M	33,736	749.00
108	Radeon Pro W5500	33,736	749.00
109	Radeon Pro W5300M	33,736	749.00
110	Radeon Pro W5300	33,736	749.00
111	Radeon Pro W5700	33,736	749.00
112	Radeon Pro W5500	33,736	749.00
113	Radeon Pro W5500M	33,736	749.00
114	Radeon Pro W5300	33,736	749.00
115	Radeon Pro W5300M	33,736	749.00
116	Radeon Pro W5500	33,736	749.00
117	Radeon Pro W5500M	33,736	749.00
118	Radeon Pro W5300	33,736	749.00
119	Radeon Pro W5300M	33,736	749.00
120	Radeon Pro W5500	33,736	749.00
121	Radeon Pro W5500M	33,736	749.00
122	Radeon Pro W5300	33,736	749.00
123	Radeon Pro W5300M	33,736	749.00
124	Radeon Pro W5500	33,736	749.00
125	Radeon Pro W5500M	33,736	749.00
126	Radeon Pro W5300	33,736	749.00
127	Radeon Pro W5300M	33,736	749.00
128	Radeon Pro W5500	33,736	749.00
129	Radeon Pro W5500M	33,736	749.00
130	Radeon Pro W5300	33,736	749.00
131	Radeon Pro W5300M	33,736	749.00
132	Radeon Pro W5500	33,736	749.00
133	Radeon Pro W5500M	33,736	749.00
134	Radeon Pro W5300	33,736	749.00
135	Radeon Pro W5300M	33,736	749.00
136	Radeon Pro W5500	33,736	749.00
137	Radeon Pro W5500M	33,736	749.00
138	Radeon Pro W5300	33,736	749.00
139	Radeon Pro W5300M	33,736	749.00
140	Radeon Pro W5500	33,736	749.00
141	Radeon Pro W5500M	33,736	749.00
142	Radeon Pro W5300	33,736	749.00
143	Radeon Pro W5300M	33,736	749.00
144	Radeon Pro W5500	33,736	749.00
145	Radeon Pro W5500M	33,736	749.00
146	Radeon Pro W5300	33,736	749.00
147	Radeon Pro W5300M	33,736	749.00
148	Radeon Pro W5500	33,736	749.00
149	Radeon Pro W5500M	33,736	749.00
150	Radeon Pro W5300	33,736	749.00
151	Radeon Pro W5300M	33,736	749.00
152	Radeon Pro W5500	33,736	749.00
153	Radeon Pro W5500M	33,736	749.00
154	Radeon Pro W5300	33,736	749.00
155	Radeon Pro W5300M	33,736	749.00
156	Radeon Pro W5500	33,736	749.00
157	Radeon Pro W5500M	33,736	749.00
158	Radeon Pro W5300	33,736	749.00
159	Radeon Pro W5300M	33,736	749.00
160	Radeon Pro W5500	33,736	749.00
161	Radeon Pro W5500M	33,736	749.00
162	Radeon Pro W5300	33,736	749.00
163	Radeon Pro W5300M	33,736	749.00
164	Radeon Pro W5500	33,736	749.00
165	Radeon Pro W5500M	33,736	749.00
166	Radeon Pro W5300	33,736	749.00
167	Radeon Pro W5300M	33,736	749.00
168	Radeon Pro W5500	33,736	749.00
169	Radeon Pro W5500M	33,736	749.00
170	Radeon Pro W5300	33,736	749.00
171	Radeon Pro W5300M	33,736	749.00
172	Radeon Pro W5500	33,736	749.00
173	Radeon Pro W5500M	33,736	749.00
174	Radeon Pro W5300	33,736	749.00
175	Radeon Pro W5300M	33,736	749.00
176	Radeon Pro W5500	33,736	749.00
177	Radeon Pro W5500M	33,736	749.00
178	Radeon Pro W5300	33,736	749.00
179	Radeon Pro W5300M	33,736	749.00
180	Radeon Pro W5500	33,736	749.00
181	Radeon Pro W5500M	33,736	749.00
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183	Radeon Pro W5300M	33,736	749.00
184	Radeon Pro W5500	33,736	749.00
185	Radeon Pro W5500M	33,736	749.00
186	Radeon Pro W5300	33,736	749.00
187	Radeon Pro W5300M	33,736	749.00
188	Radeon Pro W5500	33,736	749.00
189	Radeon Pro W5500M	33,736	749.00
190	Radeon Pro W5300	33,736	749.00
191	Radeon Pro W5300M	33,736	749.00
192	Radeon Pro W5500	33,736	749.00
193	Radeon Pro W5500M	33,736	749.00
194	Radeon Pro W5300	33,736	749.00
195	Radeon Pro W5300M	33,736	749.00
196	Radeon Pro W5500	33,736	749.00
197	Radeon Pro W5500M	33,736	749.00
198	Radeon Pro W5300	33,736	749.00
199	Radeon Pro W5300M	33,736	749.00
200	Radeon Pro W5500	33,736	749.00

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