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Informa

## Mobilne karty graficzne - rozpiska osiągów

Z oferty kuz

Lista wszystkich układów graficznych stosowanych obecnie w laptopach, którą można łatwo sortować i zawężać, podając konkretne parametry.

(Producent, Model, Rodzina, Nazwa robocza), Połącz słowa kluczowe z ☒ i ☐ lub ☐ Zawężenia

Pokaż tylko mobilne GPU

☐ tylko karty profesjonalne (dla inżynierów)

☐ tylko z DirectX 11

karty pojedyncze i podwójne

Które miały premierę co najmniej  miesięcy temu (>0)

☐ pokaż tylko karty z wynikami testów

☒ nadal dostępne (nie archiwalne)

☒ Pokaż słupki wyników

☐ Pokaż pojedyncze wyniki

☐ Show Percent

☒ Pokaż klasy wydajności

☒ Perf. Rating

☒ Pełna nazwa

☐ Nazwa robocza

☒ Architektura

☒ JC pikseli

☐ JC wierzchołków

☒ Zegar rdzenia

☐ Zegar procesora cieniującego

☒ Boost / Turbo

☒ Zegar pamięci

☒ Magistrala

☒ Memory Type

☒ DirectX

☐ OpenGL

☐ Technologia (nm)

☐ Dni temu

all, none

☐ 3DMark Ice Storm GPU

☐ 3DMark Cloud Gate Standard Score

☐ 3DMark Cloud Gate GPU

☐ 3DMark Fire Strike Score

☐ 3DMark Fire Strike Graphics

☐ 3DMark Time Spy Score

☐ 3DMark Time Spy Graphics

☐ 3DMark11 P

☐ 3DMark11 P GPU

☐ 3DMark Vantage P

☐ 3DM Vant. P GPU

☒ 3DMark06

☐ 3DMark01

☐ GFXBench

☐ GFXBench 3.0 Manhattan Offscreen OGL

☐ GFXBench 3.1 Manhattan ES 3.1 Offscreen

☐ Basemark X 1.1 Medium Quality

☐ Basemark X 1.1 High Quality

☐ Unigine Heaven 3.0 DX 11, Normal Tessellation, High Shaders

☐ Unigine Valley 1.0 Extreme HD DirectX

☐ Cinebench R15 OpenGL 64Bit

☐ Cinebench R10 OpenGL (32-bity)

☐ ComputeMark v2.1 Normal, Score

☐ LuxMark v2.0 64Bit Sala GPUs-only

all, none

Zawęż

Permalink:

| Lp.   | Pełna nazwa                          | Architektura | JC pikseli | Zegar rdzenia | Boost / Turbo | Zegar pamięci | Magistrala | Memory Type | DirectX      | Perf. Rating | 3DMark06             |
|---|--------------------------------------|--------------|------------|---------------|---------------|---------------|------------|-------------|--------------|--------------|----------------------|
| <strong>1. Karty z wysokiej półki</strong><br>Karty graficzne najwyższej klasy, które są na tyle wydajne, by najnowsze gry o dużych wymaganiach sprzętowych chodziły na wyposażonych w nie laptopach płynnie na wysokich ustawieniach grafiki (wysoka rozdzielczość, wysoki poziom odwzorowania szczegółów). Ze względu na wysoki pobór mocy są stosowane w dużych notebookach. |                                      |              |            |               |               |               |            |             |              |              |                      |
| <input type="checkbox"/> 2  | NVIDIA GeForce GTX 1080 SLI (Laptop) | Pascal       | 2560       | 1607          | 1733          | 10000         | 2x 256     | GDDR5       | 12 (FL 12_1) |              |                      |
| <input type="checkbox"/> 3  | NVIDIA GeForce GTX 1070 SLI (Laptop) | Pascal       | 2048       | 1443          | 1645          | 8000          | 2x 256     | GDDR5       | 12 (FL 12_1) |              |                      |
| <input type="checkbox"/> 5  | NVIDIA GeForce GTX 1080 (Laptop)     | Pascal       | 1280       | 1566          | 1733          | 10000         | 256        | GDDR5X      | 12_1         |              |                      |
| <input type="checkbox"/> 6  | NVIDIA GeForce GTX 980 SLI (Laptop)  | Maxwell      | 2048       | 1126          | 1228          | 3500          | 2x 256     | GDDR5       | 12 (FL 12_1) | 98           | 35639                |
| <input type="checkbox"/> 8  | NVIDIA GeForce GTX 1070 (Laptop)     | Pascal       | 1024       | 1443          | 1645          | 8000          | 256        | GDDR5       | 12_1         | 85.7         | 31155                |
| <input type="checkbox"/> 10   | NVIDIA GeForce GTX 980M SLI          | Maxwell      | 1536       | 1038          | 1127          | 5000          | 2x 256     | GDDR5       | 12 (FL 12_1) | 73.2         | 26604                |
| <input type="checkbox"/> 14   | NVIDIA GeForce GTX 980 (Laptop)      | Maxwell      | 1024       | 1126          | 1228          | 3500          | 256        | GDDR5       | 12 (FL 12_1) | 90.6         | 32943 <sup>3</sup>   |
| <input type="checkbox"/> 15   | NVIDIA Quadro M5500                  | Maxwell      | 1024       | 1139          | 1140          | 6606          | 256        | GDDR5       | 12 (FL 12_1) |              |                      |
| <input type="checkbox"/> 17   | NVIDIA GeForce GTX 970M SLI          | Maxwell      | 1280       | 924           | 1038          | 5000          | 2x 192     | GDDR5       | 12 (FL 12_1) | 77.5         | 28182.5 <sup>2</sup> |
| <input type="checkbox"/> 19*  | NVIDIA GeForce GTX 1060 (Laptop)     | Pascal       | 640        | 1506          | 1708          | 8000          | 192        | GDDR5       | 12_1         |              |                      |
| <input type="checkbox"/> 24   | NVIDIA GeForce GTX 880M SLI          | Kepler       | 1536       | 954           |               | 5000          | 2x 256     | GDDR5       | 12 (FL 11_0) |              |                      |
| <input type="checkbox"/> 27*  | AMD Radeon RX 490M                   | Polaris      |            |               |               |               |            | GDDR5       | 12           |              |                      |
| <input type="checkbox"/> 28   | NVIDIA GeForce GTX 965M SLI          | Maxwell      | 1024       | 924           | 950           | 5000          | 2x 128     | GDDR5       | 12 (FL 12_1) |              |                      |
| <input type="checkbox"/> 29   | AMD Radeon R9 M290X Crossfire        | GCN          | 1280       | 850           | 900           | 4800          | 2x 256     | GDDR5       | 12 (FL 11_1) |              |                      |
| <input type="checkbox"/> 33   | NVIDIA GeForce GTX 980M              | Maxwell      | 768        | 1038          | 1127          | 5000          | 256        | GDDR5       | 12 (FL 12_1) | 73.7         | 26811 <sup>9</sup>   |
| <input type="checkbox"/> 34   | NVIDIA Quadro M5000M                 | Maxwell      | 768        | 962           | 1051          | 5000          | 256        | GDDR5       | 12_1         | 85.1         | 30962 <sup>2</sup>   |
| <input type="checkbox"/> 38*  | NVIDIA GeForce GTX 1050 Ti           | Pascal       |            |               |               |               | 128        | GDDR5       | 12_1         |              |                      |
| <input type="checkbox"/> 39   | NVIDIA GeForce GTX 970M              | Maxwell      | 640        | 924           | 1038          | 5000          | 192        | GDDR5       | 12 (FL 12_1) | 72.8         | 26468 <sup>8</sup>   |
| <input type="checkbox"/> 40*  | NVIDIA Quadro M4000M                 | Maxwell      | 640        | 975           | 1013          | 5012          | 256        | GDDR5       | 12_1         |              |                      |
| Lp.   | Pełna nazwa                          | Architektura | JC pikseli | Zegar rdz     | Boost / T     | Zegar pamięci | Magistrala | Memory T    | DirectX      | Perf. Rating | 3DMark06             |

|                                      |                                      |         |      |           |            |      |       |              |              |                      |                      |
|--------------------------------------|--------------------------------------|---------|------|-----------|------------|------|-------|--------------|--------------|----------------------|----------------------|
| <div><div></div><div>45</div></div>  | AMD Radeon R9 M395X                  | GCN 3   | 1024 | 909       | 5460       | 256  | GDDR5 | 12 (FL 12_0) |              |                      |                      |
| <div><div></div><div>46</div></div>  | AMD Radeon R9 M485X                  | GCN 3   | 1024 |           | 5000       | 256  | GDDR5 | 12 (FL 12_0) |              |                      |                      |
| <div><div></div><div>47*</div></div> | AMD Radeon RX 480M                   | Polaris | 512  |           |            |      | GDDR5 | 12           |              |                      |                      |
| <div><div></div><div>48</div></div>  | AMD Radeon R9 M295X                  | GCN 3   | 1024 | 850       | 5448       | 256  | GDDR5 | 12 (FL 12_0) | 97.4         | 35421                |                      |
| <div><div></div><div>49*</div></div> | AMD Radeon R9 M390X                  | GCN 3   | 1024 | 723       | 5000       | 256  | GDDR5 | 12 (FL 12_0) |              |                      |                      |
| <div><div></div><div>50</div></div>  | NVIDIA Quadro M3000M                 | Maxwell | 512  | 1050      | 5000       | 256  | GDDR5 | 12_1         | 75.1         | 27320.5 <sup>2</sup> |                      |
| <div><div></div><div>51</div></div>  | AMD FirePro W7170M                   | GCN 3   | 1024 | 723       | 5000       | 256  | GDDR5 | 12 (FL 12_0) | 78.2         | 28430                |                      |
| <div><div></div><div>52</div></div>  | AMD Radeon R9 M395                   | GCN     | 896  | 834       | 5460       | 256  | GDDR5 | 12 (FL 12_0) |              |                      |                      |
| <div><div></div><div>55</div></div>  | NVIDIA GeForce GTX 880M              | Kepler  | 768  | 954       | 5000       | 256  | GDDR5 | 12 (FL 11_0) | 79.9         | 29036.5 <sup>2</sup> |                      |
| <div><div></div><div>60</div></div>  | NVIDIA GeForce GTX 780M              | Kepler  | 768  | 823       | 5000       | 256  | GDDR5 | 11           | 64.3         | 23381.5 <sup>6</sup> |                      |
| <div><div></div><div>61</div></div>  | NVIDIA Quadro K5100M                 | Kepler  | 768  | 771       | 3600       | 256  | GDDR5 | 11           | 68.5         | 24910 <sup>2</sup>   |                      |
| <div><div></div><div>62</div></div>  | NVIDIA GeForce GTX 680MX             | Kepler  | 768  | 720       | 5000       | 256  | GDDR5 | 11           |              |                      |                      |
| <div><div></div><div>65</div></div>  | NVIDIA GeForce GTX 965M              | Maxwell | 512  | 924 / 935 | 950 / 1151 | 5000 | 128   | GDDR5        | 12 (FL 12_1) | 68.1                 | 24774 <sup>3</sup>   |
| <div><div></div><div>66</div></div>  | NVIDIA GeForce GTX 870M              | Kepler  | 672  | 941       | 5000       | 192  | GDDR5 | 12 (FL 11_0) | 69.1         | 25112                |                      |
| <div><div></div><div>67</div></div>  | AMD Radeon R9 M290X                  | GCN     | 640  | 850       | 900        | 4800 | 256   | GDDR5        | 12 (FL 11_1) |                      |                      |
| <div><div></div><div>68</div></div>  | AMD Radeon HD 8970M                  | GCN     | 640  | 850       | 900        | 4800 | 256   | GDDR5        | 11.1         | 50.1                 | 18211.5 <sup>2</sup> |
| <div><div></div><div>73*</div></div> | AMD Radeon RX 460 Notebook (RX 460M) | Polaris | 512  |           |            | 128  | GDDR5 | 12           |              |                      |                      |
| <div><div></div><div>74</div></div>  | NVIDIA GeForce GTX 680M              | Kepler  | 672  | 720       | 3600       | 256  | GDDR5 | 11           | 62.6         | 22760 <sup>6</sup>   |                      |
| <div><div></div><div>75</div></div>  | NVIDIA GeForce GTX 775M              | Kepler  | 672  | 719       | 3600       | 256  | GDDR5 | 11           |              |                      |                      |
| <div><div></div><div>76</div></div>  | AMD FirePro M6100                    | GCN     | 448  | 1100      | 6000       | 128  | GDDR5 | 12 (FL 12_0) | 68.8         | 25004                |                      |


















































| Lp. | Pełna nazwa             | Architektura | JC pikseli | Zegar rdzenia | Boost / Turbo | Zegar pamięci | Magistrala | Memory Type | DirectX      | Perf. Rating | 3DMark06              |
|-----|-------------------------|--------------|------------|---------------|---------------|---------------|------------|-------------|--------------|--------------|-----------------------|
| 77  | AMD Radeon HD 7970M     | GCN          | 640        | 850           |               | 4800          | 256        | GDDR5       | 11.1         | 61.5         | 22370.5 <sup>6</sup>  |
| 78* | AMD Radeon R9 M390      | GCN          | 512        |               | 958           | 5460          | 256        | GDDR5       | 12 (FL 11_2) | 71           | 25800                 |
| 83  | NVIDIA GeForce GTX 960M | Maxwell      | 320        | 1029          | 1097          | 5000          | 128        | GDDR5       | 12 (FL 11_0) | 65.4         | 23777.5 <sup>10</sup> |
| 84  | NVIDIA Quadro M2000M    | Maxwell      | 320        | 1038          | 1197          | 5000          | 128        | GDDR5       | 12 (FL 11_0) | 70.4         | 25604 <sup>5</sup>    |

**Archiwum (stare):** NVIDIA GeForce GTX 780M SLI (N14E-GTX), AMD Radeon HD 8970M Crossfire (Neptune CF), NVIDIA GeForce GTX 680M SLI (N13E-GTX), AMD Radeon HD 7970M Crossfire (Wimbledon XT), NVIDIA GeForce GTX 860M SLI, NVIDIA GeForce GTX 770M SLI, NVIDIA GeForce GTX 675M SLI (N12E-GTX2), NVIDIA GeForce GTX 765M SLI, NVIDIA GeForce GTX 670MX SLI (N13E-GR)

## 2. Karty średniej klasy

Powinny być w stanie zapewnić płynność we wszystkich najnowszych grach. Tytuły o najwyższych wymaganiach sprzętowych będą jednak chodzić na średnich ustawieniach grafiki. Starsze i mniej wymagające - na wysokich.

| 85   | NVIDIA Quadro K5000M         | Kepler                 | 672        | 706           |               | 3000          | 256            | GDDR5       | 11           | 66.7         | 24239 <sup>3</sup>   |
|------|------------------------------|------------------------|------------|---------------|---------------|---------------|----------------|-------------|--------------|--------------|----------------------|
| 86   | NVIDIA Quadro K4100M         | Kepler                 | 576        | 706           |               | 3200          | 256            | GDDR5       | 11           | 70.3         | 25559.5 <sup>2</sup> |
| 87   | NVIDIA GeForce GTX 770M      | Kepler                 | 480        | 811           |               | 4000          | 192            | GDDR5       | 11           | 61.8         | 22486 <sup>5</sup>   |
| 88   | NVIDIA GeForce GTX 860M      | Maxwell                | 320        | 1029          |               | 5000          | 128            | GDDR5       | 12 (FL 11_0) | 63.9         | 23220.5 <sup>4</sup> |
| 94   | NVIDIA GeForce GTX 675MX     | Kepler                 | 480        | 600           |               | 3600          | 256            | GDDR5       | 11           | 63.8         | 23190 <sup>2</sup>   |
| 96   | NVIDIA GeForce GTX 950M      | Maxwell                | 320        | 914 - 993     | 1124          | 1800 - 5000   | 128            | DDR3/GDDR5  | 12 (FL 11_0) | 59.5         | 21645 <sup>13</sup>  |
| 97   | AMD Radeon R9 M385X          | GCN                    | 448        | 1100          |               | 6000          | 128            | GDDR5       | 12 FL11_1    | 38.6         | 14024                |
| 98   | NVIDIA GeForce GTX 850M      | Maxwell                | 320        | 876           |               | 2000 - 5000   | 128            | DDR3, GDDR5 | 12 (FL 11_0) | 44.4         | 16135 <sup>5</sup>   |
| 99   | NVIDIA Quadro M1000M         | Maxwell                | 256        | 993           | 1072          | 5000          | 128            | GDDR5       | 12 (FL 11_0) | 67.3         | 24483 <sup>2</sup>   |
| 100  | AMD Radeon R9 M280X          | GCN                    | 448        | 900           | 1000          | 5500          | 128            | GDDR5       | 12 (FL 12_0) | 32           | 11618                |
| 105  | NVIDIA GeForce 945M          | Maxwell                | 256        | 928           | 1045          | 2000          | 128            | DDR3        | 12 (FL 11_0) | 55.6         | 20209                |
| 106  | NVIDIA GeForce GTX 765M      | Kepler                 | 384        | 850           |               | 4000          | 128            | GDDR5       | 11           | 54           | 19624 <sup>12</sup>  |
| 110  | NVIDIA Quadro K4000M         | Kepler                 | 480        | 600           |               | 2800          | 256            | GDDR5       | 11           | 56.4         | 20518 <sup>3</sup>   |
| 111* | Intel Iris Pro Graphics P580 | Intel Gen. 9 (Skylake) | 36         | 350           | 1100          |               | eDRAM + 64/128 | eDRAM       | 12 (FL 12_1) |              |                      |
| 112  | Intel Iris Pro Graphics 580  | Intel Gen. 9 (Skylake) | 36         | 350           | 1050          |               | eDRAM + 64/128 | eDRAM       | 12 (FL 12_1) |              |                      |
| 114  | NVIDIA GeForce GTX 675M      | Fermi                  | 192        | 620           |               | 3000          | 256            | GDDR5       | 11           | 56.2         | 20452.5 <sup>6</sup> |
| Lp.  | Pełna nazwa                  | Architektura           | JC pikseli | Zegar rdzenia | Boost / Turbo | Zegar pamięci | Magistrala     | Memory Type | DirectX      | Perf. Rating | 3DMark06             |
| 115  | NVIDIA GeForce GTX 580M      | Fermi                  | 192        | 620           |               | 1500          | 256            | GDDR5       | 11           | 56.5         | 20550.5 <sup>4</sup> |
| 117* | AMD Radeon R9 M470X          | GCN 2                  | 448        |               |               | 6000          | 128            | GDDR5       | 12 FL11_1    |              |                      |
| 118* | AMD Radeon R9 M470           | GCN 2                  | 384        |               |               | 6000          | 128            | GDDR5       | 12 FL11_1    |              |                      |

|   |   |              |            |               |               |               |                |             |              |              |                      |
|---|---|--------------|------------|---------------|---------------|---------------|----------------|-------------|--------------|--------------|----------------------|
|    | AMD Radeon R9 M380                                | GCN          | 384        | 1000          |               | 6000          | 128            | GDDR5       | 11.1         |              |                      |
|    | 129 NVIDIA Quadro K3100M                          | Kepler       | 384        | 706           |               | 3200          | 256            | GDDR5       | 11           | 61.7         | 22437.5 <sup>2</sup> |
|    | 130* AMD FirePro W5170M                           | GCN          | 320        |               | 925           | 4500          | 128            | GDDR5       | 12 (FL 12_0) |              |                      |
|    | 131 AMD Radeon R9 M370X                           | GCN 1.0      | 320        | 800           |               | 4500          | 128            | GDDR5       | 12 (FL 11_1) | 50.8         | 18481                |
|    | 132 NVIDIA GeForce GTX 670MX                      | Kepler       | 480        | 600           |               | 2800          | 192            | GDDR5       | 11           | 55.7         | 20268 <sup>3</sup>   |
|    | 133 NVIDIA Quadro 5010M                           | Fermi        | 192        | 450           |               | 1300          | 256            | GDDR5 ECC   | 11           | 52.3         | 19036 <sup>3</sup>   |
|    | 134 NVIDIA GeForce GTX 760M                       | Kepler       | 384        | 657           |               | 4000          | 128            | GDDR5       | 11           | 52.9         | 19221 <sup>3</sup>   |
|    | 135 AMD Radeon R9 M275                            | GCN          | 320        | 925           |               | 4500          | 128            | GDDR5       | 12 (FL 11_1) | 28.5         | 10378                |
|    | 136 NVIDIA GeForce GTX 670M                       | Fermi        | 168        | 598           |               | 3000          | 192            | GDDR5       | 11           | 53.5         | 19451.5 <sup>8</sup> |
|    | 137 NVIDIA Maxwell GPU Surface Book (940M, GDDR5) | Maxwell      | 192        | 954           | 993           | 5012          | 64             | GDDR5       | 12 (FL 11_0) | 41.6         | 15111                |
|    | 138 AMD FirePro W5130M                            | GCN          | 256        |               | 925           | 4000          | 128            | GDDR5       | 12 (FL 12_0) | 43.1         | 15680                |
|    | 139 AMD FirePro M8900                             | Terascale 2  | 480        | 680           |               | 900           | 256            | GDDR5       | 11           | 45.9         | 16703                |
|    | 141 AMD Radeon R9 M270                            | GCN          | 320        | 725           |               | 4500          | 128            | GDDR5       | 12 (FL 11_1) |              |                      |
|    | 142 AMD Radeon HD 8870M                           | GCN          | 320        | 725           |               | 4500          | 128            | GDDR5, DDR3 | 11.1         | 43.1         | 15675 <sup>3</sup>   |
|    | 143 AMD Radeon HD 7870M                           | GCN          | 320        | 800           |               | 4000          | 128            | GDDR5       | 11.1         |              |                      |
|    | 144 NVIDIA Quadro K3000M                          | Kepler       | 288        | 654           |               | 2800          | 256            | GDDR5       | 11           | 46.9         | 17037.5 <sup>2</sup> |
|    | 145 NVIDIA GeForce GTX 570M                       | Fermi        | 168        | 575           |               | 1150          | 192            | GDDR5       | 11           | 46.8         | 17004.5 <sup>4</sup> |
| Lp.   | Pełna nazwa                                       | Architektura | JC pikseli | Zegar rdzenia | Boost / Turbo | Zegar pamieci | Magistrala     | Memory Type | DirectX      | Perf. Rating | 3DMark06             |
|    | 146 AMD FirePro M6000                             | GCN          | 320        | 750           |               | 4500          | 128            | GDDR5       | 11.1         | 47.2         | 17152                |
|    | 147 AMD FirePro M5100                             | GCN          | 320        | 725           | 775           | 4500          | 128            | GDDR5       | 12 (FL 11_1) | 50.6         | 18391 <sup>2</sup>   |
|    | 148 NVIDIA Quadro K2100M                          | Kepler       | 288        | 667           |               | 3000          | 128            | GDDR5       | 11           | 42.9         | 15586 <sup>3</sup>   |
|    | 154 NVIDIA GeForce GT 755M                        | Kepler       | 192        | 980           |               | 5400          | 128            | GDDR5       | 11           | 43.6         | 15861                |
|   | 155 NVIDIA GeForce GTX 660M                       | Kepler       | 192        | 835           |               | 4000          | 128            | GDDR5       | 11           | 40.4         | 14704 <sup>9</sup>   |
|  | 156 NVIDIA GeForce 845M                           | Maxwell      | 192        | 1071          | 1150          | 2000 - 5000   | 64/128         | DDR3/GDDR5  | 12 (FL 11_0) |              |                      |
|  | 157 AMD Radeon HD 8850M                           | GCN          | 320        | 575           | 725           | 4500          | 128            | GDDR5, DDR3 | 11.1         | 28.3         | 10281.5 <sup>2</sup> |
|  | 159 AMD Radeon R9 M265X                           | GCN          | 320        | 625           |               | 4000          | 128            | GDDR5       | 12 (FL 11_1) | 42.4         | 15426 <sup>3</sup>   |
|  | 160 AMD Radeon HD 7850M                           | GCN          | 320        | 675           |               | 4000          | 128            | GDDR5       | 11.1         | 38.8         | 14111                |
|  | 161 AMD Radeon HD 8790M                           | GCN          | 192        | 850           |               | 4500          | 128            | GDDR5       | 11.1         | 36.1         | 13118                |
|  | 162 AMD FirePro W4170M                            | GCN          | 192        | 850           | 900           | 4000          | 128            | GDDR5       | 11.2         | 37.5         | 13622                |
|  | 165 NVIDIA Quadro 4000M                           | Fermi        | 168        | 475           |               | 1200          | 256            | GDDR5       | 11           | 48.8         | 17727                |
|  | 168 NVIDIA GeForce GT 750M                        | Kepler       | 192        | 967           |               | 2000 - 5000   | 128            | DDR3, GDDR5 | 11           | 37.6         | 13670 <sup>9</sup>   |
|  | 169 Intel Iris Pro Graphics 6200                  | Broadwell    | 24         | 300           | 1150          |               | eDRAM + 64/128 |             | 12 (FL 11_1) |              |                      |
|  | 170 NVIDIA GeForce 940MX                          | Maxwell      | 192        | 1122          | 1242          |               | 64             | GDDR5/DDR3  | 12 (FL 11_0) | 37.2         | 13519 <sup>6</sup>   |
|  | 171 NVIDIA Quadro K1100M                          | Kepler       | 192        | 705           |               | 2800          | 128            | GDDR5       | 11           | 33.4         | 12159 <sup>4</sup>   |
|  | 172 NVIDIA GeForce 940M                           | Maxwell      | 192        | 1072          | 1176          | 2000          | 64             | DDR3        | 12 (FL 11_0) | 32.8         | 11920 <sup>6</sup>   |
|  | 173 AMD FirePro W4190M                            | GCN          | 192        | 825           | 900           | 4000          | 128            | GDDR5       | 11.2         | 35.6         | 12929                |
|  | 174 AMD Radeon R9 M375                            | GCN          | 320        | 1015          |               | 2200          | 128            | DDR3        | 12 (FL 11_1) | 31.7         | 11543                |
|  | 175* NVIDIA GeForce 930MX                         | Maxwell      | 192        |               |               |               | 64             | GDDR5/DDR3  | 12 (FL 11_0) |              |                      |
| Lp.   | Pełna nazwa                                       | Architektura | JC pikseli | Zegar rdzenia | Boost / Turbo | Zegar pamieci | Magistrala     | Memory Type | DirectX      | Perf. Rating | 3DMark06             |
|  | 177 AMD Radeon R7 M370                            | GCN          | 192        | 875           |               | 3600          | 128            | GDDR5       | 12           | 35.7         | 12983                |
|  | 178* NVIDIA Quadro M600M                          | Maxwell      | 192        | 837           | 876           | 5012          | 128            | GDDR5       | 12 (FL 11_0) |              |                      |
|  | 179 NVIDIA GeForce GT 650M                        | Kepler       | 192        | 735           | 900           | 1800 - 4000   | 128            | DDR3, GDDR5 | 11           | 37.2         | 13514 <sup>21</sup>  |
|  | 180 NVIDIA Quadro K620M                           | Maxwell      | 192        | 1029          | 1124          | 2000          | 64             | DDR3        | 11           | 30           | 10912                |
|  | 181 NVIDIA GeForce 840M                           | Maxwell      | 192        | 1029          |               | 2000          | 64             | DDR3        | 12 (FL 11_0) | 28.4         | 10332 <sup>11</sup>  |
|  | 182 AMD Radeon R7 M275DX                          | GCN          | 448        |               |               |               |                | DDR3        | 12           | 33.3         | 12122                |
|  | 183 NVIDIA GeForce GT 745M                        | Kepler       | 192        | 837           |               | 1800          | 128            | DDR3, GDDR5 | 11           | 37           | 13462.5 <sup>4</sup> |
|  | 184 AMD Radeon HD 7770M                           | GCN          | 256        | 675           |               | 4000          | 128            | GDDR5       | 11.1         |              |                      |
|  | 185 NVIDIA GeForce GTX 560M                       | Fermi        | 96         | 775           |               | 1250          | 192            | GDDR5       | 11           | 42.1         | 15327 <sup>11</sup>  |
|  | 186* AMD Radeon R7 (Bristol Ridge)                | GCN 1.2/2.0  | 256        |               | 900           |               | 64/128         |             | 12 (FL 12_0) |              |                      |
|  | 188 Intel Iris Pro Graphics 5200                  | Haswell      | 20         | 200           | 1300          |               | eDRAM + 64/128 | eDRAM       | 11.1         | 36.1         | 13123 <sup>2</sup>   |
|  | 190 NVIDIA GeForce GT 740M                        | Kepler       | 192        | 810           | 980           | 1600 - 1800   | 64/128         | DDR3        | 11           | 26.7         | 9700 <sup>22</sup>   |

|  |                     |         |     |     |     |      |    |      |              |      |       |
|--|---------------------|---------|-----|-----|-----|------|----|------|--------------|------|-------|
| 191  | NVIDIA GeForce 930M | Maxwell | 192 | 928 | 941 | 1800 | 64 | DDR3 | 12 (FL 11_0) | 32.3 | 11760 |
| <b>Archiwum (stare):</b> NVIDIA GeForce GTX 580M SLI (N12E-GTX2), AMD Radeon HD 6990M Crossfire (Blackcomb XTX), NVIDIA GeForce GT 755M SLI (N14P-7), NVIDIA GeForce GTX 485M SLI (N11E-GTX-A1), AMD Radeon HD 6970M Crossfire (Blackcomb XT), NVIDIA GeForce GT 750M SLI (N14P-GT), AMD Radeon HD 7950M (Wimbledon Pro), NVIDIA GeForce GTX 470M SLI (N11E-GT), NVIDIA GeForce GTX 480M SLI (N11E-GTX-A3), NVIDIA GeForce GTX 560M SLI (N12E-GS), AMD Radeon HD 6990M (Blackcomb XTX), AMD Radeon R9 M385, NVIDIA GeForce GT 650M SLI (N13E-GE), NVIDIA GeForce GTX 460M SLI (N11E-GS), ATI Mobility Radeon HD 5870 Crossfire (Broadway-XT), NVIDIA GeForce GTX 485M (N12E-GTX-A1), NVIDIA GeForce GTX 285M SLI (N10E-GTX), AMD Radeon HD 6970M (Blackcomb XT), NVIDIA GeForce GTX 280M SLI (N10E-GTX), AMD Radeon HD 6950M (Blackcomb Pro), AMD Radeon R9 M365X, ATI Mobility Radeon HD 4870 X2 (M98-XT), NVIDIA GeForce GTX 470M (N11E-GT), NVIDIA GeForce GTX 480M (N11E-GTX-A3), AMD Radeon R7 M380 |                     |         |     |     |     |      |    |      |              |      |       |

### 3. Karty z kategorii niższej średniej

Karty z tej kategorii są w stanie pociągnąć płynnie najnowsze gry, ale nie ze wszystkimi opcjami i nie w wysokiej rozdzielczości.

Szczególnie wymagające gry chodzą tylko na minimalnych ustawieniach, w wyniku czego często mocno cierpi jakość grafiki. Układy z tej klasy powinny zainteresować osoby rzadko grające w gry.

| Lp.  | Pełna nazwa                                  | Architektura             | JC pikseli | Zegar rdzenia | Boost / Turbo | Zegar pamięci | Magistrala | Memory Type  | DirectX      | Perf. Rating         | 3DMark06              |
|------|--|--------------------------|------------|---------------|---------------|---------------|------------|--------------|--------------|----------------------|-----------------------|
| 192* | Intel Iris Graphics 550                      | Intel Gen. 9 (Skylake)   | 24         | 300           | 1100          | 64/128        | DDR3/DDR4  | 12 (FL 12_1) | 40.1         | 14581                |                       |
| 193  | NVIDIA GeForce 830M                          | Maxwell                  | 128        | 1029          | 1150          | 1800          | 64         | DDR3         | 12 (FL 11_0) | 28.1                 | 10222.5 <sup>2</sup>  |
| 194  | Intel Iris Graphics 540                      | Intel Gen. 9 (Skylake)   | 24         | 300           | 1050          | 64/128        | DDR3/DDR4  | 12 (FL 12_1) | 36.9         | 13403                |                       |
| 195* | Intel HD Graphics 620                        | Intel Gen. 9 (Kaby Lake) | 12         | 300           | 1050          | 64/128        | DDR3/DDR4  | 12 (FL 12_1) | 30.7         | 11165                |                       |
| 196* | NVIDIA Quadro M500M                          | Maxwell                  | 192        |               |               | 1800          | 64         | DDR3         | 12 (FL 11_0) | 34                   | 12377.5 <sup>2</sup>  |
| 197  | NVIDIA Quadro K2000M                         | Kepler                   | 192        | 745           | 1800          | 128           | DDR3       | 11           | 33           | 11991 <sup>5</sup>   |                       |
| 200  | NVIDIA GeForce GT 735M                       | Kepler                   | 192        | 575           | 889           | 1800 - 2000   | 64         | DDR3         | 11           | 23.4                 | 8527 <sup>2</sup>     |
| 202  | NVIDIA GeForce 825M                          | Kepler                   | 192        | 850           | 1800          | 64            | DDR3       | 12 (FL 11_0) | 25.5         | 9290                 |                       |
| 204  | AMD FirePro M4000                            | GCN                      | 256        | 600           | 4500          | 128           | GDDR5      | 11           | 38.3         | 13930.5 <sup>2</sup> |                       |
| 210  | AMD Radeon HD 8770M                          | GCN                      | 192        | 775           | 4500          | 128           | GDDR5      | 11.1         | 34.9         | 12680                |                       |
| 211  | AMD Radeon R7 M260X                          | GCN                      | 192        | 715           | 4000          | 128           | GDDR5      | 12 (FL 11_1) | 32.5         | 11820                |                       |
| 213  | AMD Radeon HD 8550G + HD 8750M Dual Graphics |                          | 320        | 720 / 825     | 1800          | 128           | DDR3       | 11           | 23.5         | 8553                 |                       |
| 214* | NVIDIA GeForce 920MX                         | Maxwell                  | 128        |               |               | 1800          | 64         | GDDR5/DDR3   | 12           | 29.6                 | 10781                 |
| 215  | NVIDIA GeForce GT 730M                       | Kepler                   | 192        | 725           | 1800 - 2000   | 64/128        | DDR3       | 11           | 28.4         | 10333 <sup>9</sup>   |                       |
| 216  | AMD Radeon HD 7750M                          | GCN                      | 256        | 575           | 4000          | 128           | GDDR5      | 11.1         |              |                      |                       |
| 217* | NVIDIA GeForce GT 645M                       | Kepler                   | 192        | 710           | 1800          | 128           | DDR3       | 11           | 30.8         | 11189 <sup>4</sup>   |                       |
| 218  | AMD FirePro M4100                            | GCN                      | 192        | 670           | 4000          | 128           | GDDR5      | 12 (FL 11_1) | 25.6         | 9320                 |                       |
| 219  | AMD Radeon HD 8750M                          | GCN                      | 192        | 620           | 775           | 2000 - 4000   | 128        | GDDR5, DDR3  | 11.1         | 24.5                 | 8901.5 <sup>8</sup>   |
| 220  | NVIDIA Quadro 3000M                          | Fermi                    | 120        | 450           | 625           | 256           | GDDR5      | 11           | 39.1         | 14220.5 <sup>2</sup> |                       |
| 221  | AMD Radeon R7 M270                           | GCN                      | 192        | 825           | 1800 - 2000   | 128           | DDR3       | 12 (FL 11_1) | 26.9         | 9791.5 <sup>2</sup>  |                       |
| 222  | AMD Radeon R7 M265                           | GCN                      | 192        | 825           | 980           | 1800 - 2000   | 64/128     | DDR3         | 12 (FL 11_1) | 24.4                 | 8876 <sup>3</sup>     |
| 226  | NVIDIA GeForce GT 640M                       | Kepler                   | 192        | 625           | 645           | 1800 - 4000   | 128        | DDR3, GDDR5  | 11           | 29.2                 | 10625.5 <sup>14</sup> |
| 227  | AMD Radeon R7 (Kaveri)                       | GCN 1.1                  | 256        | 553           | 686           | 64/128        |            | 12 (FL 12_0) | 21.8         | 7921.5 <sup>2</sup>  |                       |
| 228  | AMD Radeon R8 M365DX                         | GCN                      | 384        | 720 / 1125    | 800 / 1000    | 128 + 64      | DDR3       | 12           | 23.9         | 8708.5 <sup>2</sup>  |                       |
| 229* | AMD Radeon R7 M460                           | GCN                      |            |               |               | 64            |            | 12           | 23.6         | 8587                 |                       |
| 230  | AMD Radeon HD 7730M                          | GCN                      | 256        | 575           | 675           | 1800          | 128        | DDR3         | 11.1         | 26.4                 | 9615                  |
| 232  | AMD Radeon R7 M360                           | GCN 2.0                  | 192        | 1125          | 2000          | 64            | DDR3       | 12           | 22.8         | 8273.5 <sup>4</sup>  |                       |
| 234* | AMD Radeon R7 (Carrizo)                      | GCN 1.2/2.0              | 256        |               | 800           | 64/128        |            | 12 (FL 12_0) | 18           | 6528 <sup>4</sup>    |                       |
| 236  | AMD Radeon HD 8690M                          | GCN                      | 192        | 775           | 4500          | 64            | GDDR5      | 11.1         | 25.9         | 9413                 |                       |
| 237  | AMD Radeon R8 M445DX                         | GCN                      | 352        | 720 / 1020    | 933 / 1000    | 128 + 64      | DDR4/DDR3  | 12           | 24.4         | 8880.5 <sup>2</sup>  |                       |
| 238  | AMD Radeon R7 M440                           | GCN                      | 160        | 1021          | 2000          | 64            | DDR3       | 12           | 23.8         | 8650                 |                       |
| 244  | AMD Radeon R7 M340                           | GCN                      | 160        | 1021          | 2000          | 64            | DDR3       | 12           | 24.7         | 8982                 |                       |
| 245  | NVIDIA GeForce 920M                          | Kepler                   | 192        | 954           | 1800          | 64            | DDR3       | 12 (FL 11_0) | 24.8         | 9003.5 <sup>4</sup>  |                       |
| 246  | AMD Radeon R6 M340DX                         | GCN                      | 320        |               |               |               | DDR3       | 12           | 14.8         | 5388                 |                       |
| 247  | Intel HD Graphics 530                        | Intel Gen. 9 (Skylake)   | 12         | 350           | 1150          | 64/128        |            | 12 (FL 12_1) | 31.2         | 11360 <sup>8</sup>   |                       |
| 248  | Intel HD Graphics P530                       | Intel Gen. 9 (Skylake)   | 12         | 350           | 1050          | 64/128        | DDR3/DDR4  | 12 (FL 12_1) |              |                      |                       |
| 250  | AMD Radeon R7 M260                           | GCN                      | 192        | 715           | 980           | 1800 - 2000   | 64/128     | DDR3         | 12 (FL 11_1) | 21.5                 | 7810 <sup>3</sup>     |
| 251  | AMD Radeon R5 (Bristol Ridge)                | GCN 1.2/2.0              | 192        |               | 800           | 64/128        |            | 12 (FL 12_0) | 19.8         | 7202                 |                       |
| 252  | AMD Radeon R5 (Stoney Ridge)                 | GCN 1.2/2.0              | 96         |               | 800           | 64            |            |              |              |                      |                       |

|      |   |                        |            |               |               |               |            |               |              |              |                     |
|------|---|------------------------|------------|---------------|---------------|---------------|------------|---------------|--------------|--------------|---------------------|
|      |   |                        |            |               |               |               |            |               | 12 (FL 12_0) |              |                     |
| 253  | AMD Radeon R6 (Carrizo)                             | GCN 1.2/2.0            | 192        |               | 800           |               | 64/128     |               | 12 (FL 12_0) | 19           | 6896 <sup>3</sup>   |
| 262  | AMD Radeon HD 7690M XT                              | Terascale 2            | 240        | 725           |               | 3600          | 128        | GDDR5         | 11           | 30           | 10919 <sup>2</sup>  |
| 263  | AMD FirePro M5950                                   | Terascale 2            | 240        | 725           |               | 900           | 128        | GDDR5         | 11           | 29.1         | 10592               |
| 264  | NVIDIA GeForce GT 640M LE                           | Fermi / Kepler         | 192        | 500           |               | 1800 - 4000   | 128        | DDR3, GDDR5   | 11           | 24.4         | 8858 <sup>5</sup>   |
| 265  | AMD Radeon R6 (Kaveri)                              | GCN 1.1                | 192        | 533           | 654           |               | 64/128     |               | 12 (FL 12_0) | 16.5         | 5989 <sup>3</sup>   |
| 266* | AMD Radeon HD 8650M                                 | GCN                    | 192        | 650           |               | 4500          | 64         | GDDR5         | 11.1         |              |                     |
| 267  | AMD Radeon HD 8730M                                 | GCN                    | 192        | 650           |               | 2000          | 128        | DDR3          | 11.1         | 23.7         | 8620 <sup>2</sup>   |
| 269  | NVIDIA GeForce GT 635M                              | Fermi                  | 72         | 660           | 753           | 1800          | 128/192    | DDR3/GDDR5    | 11           | 23.4         | 8517.5 <sup>6</sup> |
| Lp.  | Pełna nazwa   | Architektura           | JC pikseli | Zegar rdzenia | Boost / Turbo | Zegar pamięci | Magistrala | Memory Type   | DirectX      | Perf. Rating | 3DMark06            |
| 270  | NVIDIA GeForce GT 555M                              | Fermi                  | 72         | 525           | 753           | 785-900       | 128/192    | DDR3/GDDR5    | 11           | 29.1         | 10568 <sup>13</sup> |
| 275  | NVIDIA Quadro 2000M                                 | Fermi                  | 96         | 550           |               | 900           | 128        | DDR3          | 11           | 32.1         | 11656 <sup>3</sup>  |
| 283  | AMD Radeon HD 7690M                                 | Terascale 2            | 240        | 600           | 725           | 3600/1800     | 128        | GDDR5/DDR3    | 11           | 26.6         | 9660                |
| 284  | Intel HD Graphics 5600                              | Broadwell              | 12         | 300           | 1050          |               | 64/128     |               | 12 (FL 11_1) |              |                     |
| 286  | AMD Radeon HD 8650G + HD 8670M Dual Graphics        |                        | 384        | 720 / 775     |               | 1800 - 2000   | 64         | DDR3          | 11           | 15.7         | 5716                |
| 287  | AMD Radeon HD 8650G + HD 8570M Dual Graphics        |                        | 384        | 720 / 650     |               | 1800 - 2000   | 64         | DDR3          | 11           | 19.2         | 6970                |
| 288  | AMD Radeon HD 7660G + HD 7670M Dual Graphics        | Terascale 2            | 431        | 685 / 600     |               | 1800          | 128        | DDR3,GDDR5    | 11           | 21.8         | 7935 <sup>5</sup>   |
| 289  | AMD Radeon HD 8550G + HD 8670M Dual Graphics        |                        | 320        | 720 / 975     |               | 2000          | 64         | DDR3          | 11           | 14.4         | 5229.5 <sup>2</sup> |
| 290  | AMD Radeon HD 8670M                                 | GCN                    | 192        | 775           |               | 2000          | 64         | DDR3          | 11.1         | 12.8         | 4670 <sup>3</sup>   |
| 291  | AMD Radeon R6 M255DX                                | GCN                    | 288        | 855 / 514     |               |               |            | DDR3          | 12           |              |                     |
| 294  | NVIDIA Quadro K1000M                                | Kepler                 | 96         | 850           |               | 1800          | 128        | DDR3          | 11.1         | 22.9         | 8340.5 <sup>2</sup> |
| 295  | NVIDIA GeForce GT 550M                              | Fermi                  | 48         | 740           |               | 900           | 128        | DDR3/GDDR5    | 11           | 24.1         | 8776 <sup>3</sup>   |
| 296* | AMD Radeon HD 8590M                                 | GCN                    | 192        | 620           |               | 4500          | 64         | GDDR5         | 11.1         |              |                     |
| 310  | AMD Radeon HD 8650G                                 | Terascale 3            | 192        | 533           | 720           |               |            |               | 11           | 18.5         | 6732.5 <sup>2</sup> |
| 311  | AMD Radeon HD 7640G + HD 7670M Dual Graphics        | Terascale 3            | 368        | 655 / 600     |               | 1800          | 128        |               | 11           | 23.2         | 8451.5 <sup>4</sup> |
| 313  | AMD Radeon HD 7520G + HD 7670M Dual Graphics        | Terascale 3            | 368        | 655 / 600     |               | 1800          | 128        |               | 11           | 20           | 7282 <sup>2</sup>   |
| 314  | AMD Radeon HD 7670M                                 | Terascale 2            | 240        | 600           |               | 1800          | 128        | DDR3, (GDDR5) | 11           | 22.6         | 8203 <sup>15</sup>  |
| 315  | NVIDIA GeForce GT 630M                              | Fermi                  | 48         | 672           |               | 1800          | 128        | DDR3          | 11           | 23.7         | 8610 <sup>26</sup>  |
| 318  | AMD Radeon R5 M335                                  | GCN                    | 160        | 1070          |               | 2200          | 64         | DDR3          | 12           | 16.3         | 5921                |
| 319* | AMD Radeon R5 M430                                  | GCN                    | 160        |               |               | 2000          | 64         | DDR3          | 12           |              |                     |
| Lp.  | Pełna nazwa   | Architektura           | JC pikseli | Zegar rdzenia | Boost / Turbo | Zegar pamięci | Magistrala | Memory Type   | DirectX      | Perf. Rating | 3DMark06            |
| 320  | AMD Radeon R5 M330                                  | GCN 2.0                | 160        | 1030          |               | 2000          | 64         | DDR3          | 12           | 16.4         | 5972 <sup>2</sup>   |
| 321  | AMD Radeon R5 M255                                  | GCN                    | 160        | 940           |               | 1800 - 2000   | 64         | DDR3          | 12           | 24.6         | 8935                |
| 322  | NVIDIA Quadro 1000M                                 | Fermi                  | 48         | 700           |               | 900           | 128        | DDR3          | 11           | 23.4         | 8509 <sup>3</sup>   |
| 323  | NVIDIA GeForce 910M                                 | Kepler                 | 192        | 641           |               | 2000          | 64         | DDR3          | 12 (FL 11_0) | 18.5         | 6741                |
| 324  | NVIDIA GeForce 820M                                 | Fermi                  | 48         | 775           |               | 1800          | 64         | DDR3          | 12 (FL 11_0) | 20.7         | 7518 <sup>5</sup>   |
| 325  | Intel HD Graphics 520                               | Intel Gen. 9 (Skylake) | 12         | 300           | 1050          |               | 64/128     | DDR3/DDR4     | 12 (FL 12_1) | 23.7         | 8632 <sup>24</sup>  |
| 326  | Intel Iris Graphics 6100                            | Broadwell              | 24         | 300           | 1100          |               | 64/128     |               | 12 (FL 11_1) | 24.1         | 8764 <sup>3</sup>   |
| 327  | NVIDIA GeForce GT 720M                              | Fermi                  | 48         | 625           | 938           | 1800 - 2000   | 64         | DDR3          | 11           | 21.7         | 7896 <sup>5</sup>   |
| 329  | AMD Radeon R5 M240                                  | GCN                    | 160        | 1030          |               | 1800          | 64         | DDR3          | 11.2         | 15.7         | 5698 <sup>2</sup>   |
| 330* | AMD Radeon R5 M320                                  | GCN 2.0                | 160        | 855           |               | 2000          | 64         | DDR3          | 12           |              |                     |
| 331  | AMD Radeon R5 M230                                  | GCN                    | 160        | 855           |               | 1800 - 2000   | 64         | DDR3          | 12           | 14.1         | 5145                |
| 332* | AMD Radeon R5 M315                                  | GCN                    | 160        |               |               | 2000          | 64         | DDR3          | 12           |              |                     |
| 336  | AMD Radeon HD 8450G + Radeon HD 8570M Dual Graphics | Terascale 3 / GCN      | 192        | 720 / 650     |               | 1800          | 64         |               | 11           | 11.7         | 4242                |
| 337  | AMD Radeon HD 8570M                                 | GCN                    | 192        | 650           |               | 1800 - 2000   | 64         | DDR3          | 11.1         | 15.5         | 5650 <sup>2</sup>   |
| 338  | Intel HD Graphics 6000                              | Broadwell              | 24         | 300           | 1000          |               | 64/128     |               | 12 (FL 11_1) | 22.3         | 8091 <sup>3</sup>   |
| 339  | NVIDIA Quadro K610M                                 | Kepler                 | 96         | 954           |               | 2600          | 64         | GDDR5         | 11           | 22.4         | 8157                |
| 340  | AMD Radeon HD 8550M                                 | GCN                    | 192        | 700           |               | 1800          | 64         | DDR3          | 11.1         | 12.9         | 4700                |

|                          |     |                          |         |    |     |      |        |             |      |      |                     |
|--------------------------|-----|--------------------------|---------|----|-----|------|--------|-------------|------|------|---------------------|
| <input type="checkbox"/> | 341 | Intel Iris Graphics 5100 | Haswell | 20 | 200 | 1200 | 64/128 |             | 11.1 | 19.1 | 6928.5 <sup>4</sup> |
| <input type="checkbox"/> | 342 | NVIDIA GeForce GT 540M   | Fermi   | 48 | 672 | 900  | 128    | GDDR5, DDR3 | 11   | 22   | 7986 <sup>41</sup>  |

**Archiwum (stare):** NVIDIA GeForce GTX 260M SLI (NB9E-GTX), ATI Mobility Radeon HD 5870 (Broadway-XT), NVIDIA Quadro 5000M (Fermi), ATI FirePro M7820, AMD Radeon HD 6870M (Granville-PRO), NVIDIA GeForce 9800M GTX SLI (NB9E-GTX), AMD Radeon HD 8830M, NVIDIA GeForce GTX 460M (N11E-GS), NVIDIA Quadro FX 3800M (N10E-GLM4), NVIDIA GeForce GTX 285M (N10E-GTX1), ATI Mobility Radeon HD 4870 (M98-XT), NVIDIA GeForce GTX 280M (N10E-GTX), NVIDIA GeForce 9800M GT SLI (NB9E-GT2), NVIDIA GeForce 9800M GTS SLI (NB9E-GT), ATI Mobility Radeon HD 3870 X2 (M88-XT CF), NVIDIA GeForce 8800M GTX SLI (NB8E-GTX), ATI Mobility Radeon HD 3850 X2 (M88 CF), NVIDIA Quadro FX 3700M (NB9E-GLM3), ATI Mobility Radeon HD 4860 (M97-XT), ATI FirePro M7740 (RV740), ATI Mobility Radeon HD 4850 (M98), NVIDIA GeForce GTX 260M (N10E-GT), NVIDIA GeForce 9800M GTX (NB9E-GTX), NVIDIA Quadro FX 2800M (NB10-GLM3), AMD Radeon HD 6775G2, AMD Radeon HD 6770M (Whistler-XT), ATI Mobility Radeon HD 5850 (Broadway-PRO), AMD Radeon HD 6850M (Granville Pro/LP), NVIDIA GeForce 9800M GT (NB9E-GT2), NVIDIA GeForce 8800M GTX (NB8E-GTX), NVIDIA Quadro FX 3600M (NB8E-GLM), NVIDIA GeForce GT 445M (N11E-GE), NVIDIA GeForce GTS 360M (N11E-GS1), AMD Radeon HD 6755G2, AMD Radeon HD 6750M (Whistler-PRO), NVIDIA GeForce GTS 260M (N10E-GS), NVIDIA GeForce GTS 160M (N10E-GS1), NVIDIA GeForce 9800M GTS (NB9E-GT), AMD Radeon HD 6830M (Granville-LP), ATI Mobility Radeon HD 5830 (Broadway), AMD Radeon HD 6760G2, AMD Radeon HD 6730M (Whistler-XT), NVIDIA GeForce 9800M GS (NB9E-GS1), ATI Mobility Radeon HD 4830 (M97), ATI Mobility Radeon HD 5770 (Madison-XT), AMD Radeon HD 6570M (Capilano), AMD Radeon HD 6620G + HD 7670M Dual Graphics, NVIDIA GeForce GTS 150M (N10E-GE1), NVIDIA GeForce 8800M GTS (NB8E-GT), ATI Mobility Radeon HD 5750 (Madison-XT), AMD Radeon HD 6720G2

#### 4. Karty słabszej klasy

Niektóre mniej wymagające nowsze gry mogą działać dobrze na niskich ustawieniach. Karty te są oczywiście odpowiednie do aplikacji biurowych i odtwarzania filmów.

|                          |             |                        |             |               |               |               |            |             |              |              |                    |
|--------------------------|-------------|------------------------|-------------|---------------|---------------|---------------|------------|-------------|--------------|--------------|--------------------|
| <input type="checkbox"/> | 343*        | AMD Radeon HD 8610G    | Terascale 3 | 192           | 533           | 626           |            |             | 11           | 9.7          | 3538               |
| Lp.                      | Pełna nazwa | Architektura           | JC pikseli  | Zegar rdzenia | Boost / Turbo | Zegar pamięci | Magistrala | Memory Type | DirectX      | Perf. Rating | 3DMark06           |
| <input type="checkbox"/> | 346         | Intel HD Graphics 4600 | Haswell     | 10            | 200           | 1350          | 64/128     |             | 11.1         | 20.2         | 7362 <sup>14</sup> |
| <input type="checkbox"/> | 348         | Intel HD Graphics 5500 | Broadwell   | 12            | 300           | 950           | 64/128     |             | 12 (FL 11_1) | 19.2         | 6978 <sup>21</sup> |

**Archiwum (stare):** AMD Radeon HD 6690G2, AMD Radeon HD 6650M (Whistler-PRO), ATI Mobility Radeon HD 5730 (Madison)

#### 3. Karty z kategorii niższej średniej

Karty z tej kategorii są w stanie pociągnąć płynnie najnowsze gry, ale nie ze wszystkimi opcjami i nie w wysokiej rozdzielczości. Szczególnie wymagające gry chodzą tylko na minimalnych ustawieniach, w wyniku czego często mocno cierpi jakość grafiki. Układy z tej klasy powinny zainteresować osoby rzadko grające w gry.

|                          |      |                       |                          |    |     |      |        |              |              |  |  |
|--------------------------|------|-----------------------|--------------------------|----|-----|------|--------|--------------|--------------|--|--|
| <input type="checkbox"/> | 349* | Intel HD Graphics 615 | Intel Gen. 9 (Kaby Lake) | 12 | 300 | 1050 | 64/128 | DDR3L/LPDDR3 | 12 (FL 12_1) |  |  |
|--------------------------|------|-----------------------|--------------------------|----|-----|------|--------|--------------|--------------|--|--|

#### 4. Karty słabszej klasy

Niektóre mniej wymagające nowsze gry mogą działać dobrze na niskich ustawieniach. Karty te są oczywiście odpowiednie do aplikacji biurowych i odtwarzania filmów.

|                          |             |  |                        |               |               |               |             |              |              |              |                     |
|--------------------------|-------------|--|------------------------|---------------|---------------|---------------|-------------|--------------|--------------|--------------|---------------------|
| <input type="checkbox"/> | 350*        | AMD Radeon R5 (Carrizo)                      | GCN 1.2/2.0            | 128           |               | 800           | 64/128      |              | 12 (FL 12_0) |              |                     |
| <input type="checkbox"/> | 351         | AMD Radeon R5 (Kaveri)                       | GCN 1.1                | 128           | 514           | 626           | 64/128      |              | 12 (FL 12_0) | 11.9         | 4317                |
| <input type="checkbox"/> | 353         | NVIDIA NVS 5400M                             | Fermi                  | 48            | 660           | 1800          | 128         | DDR3         | 11           | 25.3         | 9192.5 <sup>2</sup> |
| <input type="checkbox"/> | 354         | NVIDIA GeForce 710M                          | Fermi                  | 48            | 775           | 800           | 1800        | 64           | DDR3         | 11           | 22                  |
| <input type="checkbox"/> | 355         | AMD Radeon HD 7660G                          | Terascale 3            | 192           | 497           | 686           |             |              | 11           | 20.1         | 7317 <sup>2</sup>   |
| <input type="checkbox"/> | 358         | Intel HD Graphics 5000                       | Haswell                | 20            | 200           | 1100          | 64/128      |              | 11.1         | 16.3         | 5940 <sup>6</sup>   |
| <input type="checkbox"/> | 359*        | NVIDIA Quadro K510M                          | Kepler                 | 96            | 846           | 2400          | 64          | GDDR5        | 11           |              |                     |
| <input type="checkbox"/> | 362*        | AMD Radeon HD 7590M                          | Terascale 2            | 240           | 600           | 3200          | 64          |              | 11           |              |                     |
| <input type="checkbox"/> | 366         | AMD Radeon HD 7650M                          | Terascale 2            | 240           | 450           | 550           | 1800        | 128          | DDR3         | 11           | 20.2                |
| <input type="checkbox"/> | 367         | AMD FirePro M2000                            | Terascale 2            | 240           | 500           | 3200          | 64          | GDDR5        | 11.1         | 16.7         | 6086                |
| <input type="checkbox"/> | 368         | AMD Radeon HD 7570M                          | Terascale 2            | 200           | 450           | 650           | 3200 / 1800 | 64           | GDDR5 / DDR3 | 11           | 16.5                |
| <input type="checkbox"/> | 369         | AMD Radeon HD 7630M                          | Terascale 2            | 240           | 450           | 1800          | 128         | DDR3         | 11           |              |                     |
| <input type="checkbox"/> | 372*        | AMD Radeon HD 8510G                          |                        | 192           | 450           | 554           |             |              | 11           |              |                     |
| <input type="checkbox"/> | 374         | AMD Radeon HD 8550G                          | Terascale 3            | 128           | 515           | 720           |             |              | 11           | 20.1         | 7314                |
| <input type="checkbox"/> | 375*        | NVIDIA Quadro K500M                          | Kepler                 | 96            | 850           | 1800          | 64          | DDR3 / GDDR5 | 11           |              |                     |
| <input type="checkbox"/> | 376*        | NVIDIA GeForce GT 625M                       | Fermi                  | 48            | 625           | 1800          | 64          | DDR3         | 11           |              |                     |
| <input type="checkbox"/> | 377         | NVIDIA GeForce GT 620M                       | Fermi                  | 48            | 625           | 715           | 1800        | 64 / 128     | DDR3         | 11           | 20.5                |
| Lp.                      | Pełna nazwa | Architektura                                 | JC pikseli             | Zegar rdzenia | Boost / Turbo | Zegar pamięci | Magistrala  | Memory Type  | DirectX      | Perf. Rating | 3DMark06            |
| <input type="checkbox"/> | 378         | NVIDIA GeForce GT 525M                       | Fermi                  | 48            | 600           | 900           | 128         | GDDR5, DDR3  | 11           | 19.4         | 7058.5 <sup>8</sup> |
| <input type="checkbox"/> | 380         | AMD Radeon HD 7640G + HD 7610M Dual Graphics | Terascale 3            | 328           | 655 / 450     | 1800          | 128         |              | 11           | 21.7         | 7881.5 <sup>2</sup> |
| <input type="checkbox"/> | 381         | AMD Radeon HD 7610M                          | Terascale 2            | 200           | 450           | 1600          | 128         | DDR3         | 11           | 19.5         | 7100 <sup>3</sup>   |
| <input type="checkbox"/> | 382         | AMD Radeon HD 7620G                          | Terascale 3            | 192           | 360           | 497           |             |              | 11           | 15.3         | 5553 <sup>2</sup>   |
| <input type="checkbox"/> | 384         | AMD Radeon HD 7640G                          | Terascale 3            | 128           | 497           | 686           |             |              | 11           | 11.5         | 4173 <sup>2</sup>   |
| <input type="checkbox"/> | 390         | Intel HD Graphics 515                        | Intel Gen. 9 (Skylake) | 12            | 300           | 1000          | 64/128      | DDR3L/LPDDR3 | 12 (FL 12_1) | 17.3         | 6293 <sup>13</sup>  |
| <input type="checkbox"/> | 391         | Intel HD Graphics 4400                       | Haswell                | 10            | 200           | 1100          | 64/128      |              | 11.1         | 14.2         | 5164 <sup>54</sup>  |
| <input type="checkbox"/> | 392*        | Intel HD Graphics 510                        | Intel Gen. 9 (Skylake) | 6             | 300           | 950           | 64/128      | DDR3/DDR4    | 12 (FL 12_1) |              |                     |
| <input type="checkbox"/> | 393         | NVIDIA NVS 5200M                             | Fermi                  | 48            | 625           | 1800          | 64          | DDR3         | 11           | 20.6         | 7502.5 <sup>4</sup> |
| <input type="checkbox"/> | 395         | AMD Radeon HD 7550M                          | Terascale 2            | 200           | 450           | 550           | 3200 / 1800 | 64           | GDDR5 / DDR3 | 11           | 13.6                |
| <input type="checkbox"/> | 402         | AMD Radeon HD 7500G + HD 7550M Dual Graphics | Terascale 3            | 368           | 655 / 600     | 1800          | 128         |              | 11           | 17.6         | 6404                |
| <input type="checkbox"/> | 403         | AMD Radeon HD 7600G                          | Terascale 3            | 192           | 320           | 424           |             |              | 11           | 9.6          | 3504 <sup>3</sup>   |
| <input type="checkbox"/> | 414*        | AMD Radeon HD 7530M                          | Terascale 2            | 200           | 450           | 1800          | 64          | DDR3         | 11           |              |                     |
|                          |             | AMD Radeon HD 7490M                          | Terascale 2            | 80            | 800           | 3800          | 64          | GDDR5        | 11           |              |                     |



2016-09-19

**Archiwum (stare):** ATI FirePro M5800 (Madison), NVIDIA GeForce GT 435M (N11P-GT), AMD Radeon HD 6680G2, AMD Radeon HD 6550M (Capilano-PRO), NVIDIA GeForce GTS 350M (n11e-ge1), NVIDIA GeForce GTS 250M (N10E-GE), AMD Radeon HD 6630M (Whistler-LP), NVIDIA Quadro FX 1800M, ATI Mobility Radeon HD 5650 (Madison Pro), AMD Radeon HD 6530M (Capilano-LP), ATI Mobility Radeon HD 565v, ATI Mobility Radeon HD 4670 (M96-KT), NVIDIA GeForce GT 425M (N11P-GS), NVIDIA GeForce 9700M GTS (NB9E-GS), AMD Radeon HD 6645G2, NVIDIA Quadro FX 2700M (NB9E-GLM2), NVIDIA GeForce GT 335M (N11P-GS1), ATI Mobility Radeon HD 3870 (M88-KT), AMD Radeon HD 6620G + HD 7450M Dual Graphics, AMD Radeon HD 6640G2, ATI Mobility Radeon HD 5165, ATI Mobility Radeon HD 560v, ATI Mobility Radeon HD 4650 (M96), NVIDIA GeForce Go 7950 GTX SLI (G71M), NVIDIA GeForce Go 7900 GTX SLI (G71M), NVIDIA GeForce GT 420M (N11P-GE), ATI Mobility Radeon HD 3850 (M88), NVIDIA GeForce GT 330M (N11P-GE1), NVIDIA Quadro FX 880M (N10P-GLM), NVIDIA Quadro NVS 5100M (N10P-NS), NVIDIA GeForce GT 240M (N10P-GS), NVIDIA GeForce Go 7950 GTX (G71M), NVIDIA Quadro FX 3500M (G71GLM), NVIDIA GeForce 8700M GT SLI (NB8E-SE), NVIDIA GeForce 9700M GT (NB9E-GE), NVIDIA GeForce GT 230M (N10P-GE), ATI Mobility Radeon HD 550v, AMD Radeon HD 6545G2, AMD Radeon HD 6520G + HD 7450M Dual Graphics, AMD Radeon HD 6540G2, AMD Radeon HD 6480G + HD 7450M Dual Graphics, AMD Radeon HD 6515G2, AMD Radeon HD 6490M (Seymour XT), NVIDIA GeForce GT 325M (N11P-GV1), NVIDIA GeForce Go 7800 GTX SLI (G70M), NVIDIA GeForce 8600M GT SLI (NB8P-GS), NVIDIA GeForce Go 7900 GS SLI (G71M), NVIDIA GeForce GT 130M (N10P-GE1), NVIDIA GeForce Go 7900 GTX (G71M), NVIDIA Quadro FX 2500M (G71glm), NVIDIA GeForce 9650M GS (NB9P-GS1), NVIDIA GeForce 9650M GT (NB9P-GT), NVIDIA GeForce 8700M GT (NB8E-SE), NVIDIA Quadro FX 1700M (NB9P-GLM), NVIDIA Quadro FX 1600M (NB8P-GLM), NVIDIA GeForce Go 7800 GTX (G70M), NVIDIA GeForce Go 7900 GS (G71M), NVIDIA Quadro NVS 320M (G84M), NVIDIA Quadro FX 1500M (G71GLM), NVIDIA GeForce 9600M GT (NB9P-GS), NVIDIA GeForce GT 220M (G96M), NVIDIA Quadro FX 770M (NB9P-GLM), NVIDIA GeForce GT 120M (N10P-GV1), AMD Radeon HD 6510G2, NVIDIA GeForce 705M, AMD Radeon HD 6470M (Seymour XT), AMD FirePro M3900 (Seymour XT), ATI Mobility Radeon HD 3670 (M86XT), ATI Mobility FireGL V5725 (M86GL), NVIDIA GeForce 320M (MCP89), NVIDIA GeForce GT 320M, ATI Mobility Radeon HD 2600 XT (M76-KT), ATI Mobility Radeon X1900 (M59), ATI Mobility Radeon X1800XT (M58, R520), ATI Mobility Radeon X1800 (M58), NVIDIA GeForce Go 6800 Ultra (NV41M), NVIDIA GeForce Go 7800 (G70M), NVIDIA GeForce 9600M GS (NB9P-GE), NVIDIA GeForce 9500M GS (NB9P-GE1), ATI Mobility Radeon HD 2700 (M76-KT), NVIDIA GeForce GT 415M (N11P-GV), NVIDIA GeForce 410M (N12M-GS), AMD Radeon HD 7370M (Robson XT), AMD Radeon HD 6370M (Robson XT), ATI Mobility Radeon HD 5470 (Park XT), AMD Radeon HD 6450M (Seymour-PRO), AMD Radeon HD 7430M (Seymour-PRO), ATI Mobility Radeon HD 3650 (M86), ATI Mobility FireGL V5700 (M86-GL), ATI Mobility Radeon HD 5145, ATI Mobility Radeon HD 545v, ATI Mobility Radeon HD 4570 (M92-KT), NVIDIA Quadro FX 570M (G64GLM), ATI Mobility Radeon HD 5450 (Park Pro), NVIDIA GeForce 8600M GT (G84M), ATI Mobility Radeon HD 2600 (M76), NVIDIA Quadro FX 380M (n10m-glm), NVIDIA GeForce 310M (N11M-GE1), NVIDIA GeForce G210M (N10M-GS), NVIDIA NVS 3100M (N10M-NS), NVIDIA GeForce 405M, NVIDIA GeForce 315M (N11M-GE), NVIDIA GeForce Go 7600 GT (G73M), NVIDIA GeForce 9500M G (NB9P), NVIDIA GeForce 8600M GS (G84M), NVIDIA NVS 2100M, NVIDIA GeForce Go 7700 (G73M-B1), NVIDIA GeForce Go 6800 (NV42M), NVIDIA Quadro FX Go 1400 (NV41M), ATI Mobility Radeon X800XT (M28Pro), AMD Radeon HD 6430M (Seymour-LP), ATI Mobility Radeon HD 5430 (Park LP), ATI Mobility Radeon HD 540v, ATI Mobility Radeon HD 4550 (M92), AMD Radeon HD 7350M (Robson Pro), AMD Radeon HD 6350M (Robson Pro), ATI Mobility Radeon HD 4530 (M92), ATI Mobility Radeon HD 4350 (M92), ATI Mobility Radeon HD 530v (M92), NVIDIA GeForce 305M (n11m-lp1), ATI Mobility Radeon X1700 (M66-P), ATI Mobility FireGL V5250 (M56GL), ATI Mobility Radeon X2500 (M66), NVIDIA GeForce Go 7600 (G73M), NVIDIA Quadro NVS 300M (G72GLM), ATI Mobility Radeon X800 (M28), ATI Mobility Radeon X1600 (M56), ATI Mobility FireGL V5200 (M56GL), ATI Mobility Radeon 9800 (M18), NVIDIA GeForce Go 6600 (NV43M), ATI Mobility Radeon X1450 (M54), ATI Mobility Radeon X700 (M26), ATI Mobility FireGL V5000 (M26GL), NVIDIA GeForce G 110M (N10M-GS1), AMD Radeon HD 6330M (Robson LP), ATI Mobility Radeon HD 4330 (M92-SE), NVIDIA GeForce 8400M GT (G86M), NVIDIA Quadro NVS 140M (G84M)

5. Karty z dolnej półki

Na laptopie wyposażonym w kartę z tej kategorii można pograć tylko w gry bardzo stare i o nieskomplikowanej szacie graficznej. Obróbka zdjęć czy filmów oraz mniej wymagające czynności są jednak możliwe bez większych problemów.

|                          |      |                                  |              |    |          |      |           |      |     |                      |
|--------------------------|------|----------------------------------|--------------|----|----------|------|-----------|------|-----|----------------------|
| <input type="checkbox"/> | 584  | Intel HD Graphics 2000           | Sandy Bridge | 3  | 850/1100 | 1350 | 64/128    | 10.1 | 6.3 | 2288 <sup>3</sup>    |
| <input type="checkbox"/> | 592* | Intel HD Graphics (Sandy Bridge) | Sandy Bridge | 3  | 350      | 1100 | 64/128    | 10.1 | 6.9 | 2509 <sup>19</sup>   |
| <input type="checkbox"/> | 598  | Intel HD Graphics (Bay Trail)    | Ivy Bridge   | 2  | 311      | 896  | 32/64/128 | 11   | 5.1 | 1867 <sup>26</sup>   |
| <input type="checkbox"/> | 602  | AMD Radeon HD 7340               | Terascale 2  | 40 | 523      | 680  |           | 11   | 6.8 | 2466.5 <sup>8</sup>  |
| <input type="checkbox"/> | 603* | AMD Radeon HD 6320               | Terascale 2  | 40 | 500      | 600  |           | 11   | 6.6 | 2406.5 <sup>8</sup>  |
| <input type="checkbox"/> | 604  | AMD Radeon HD 7310               | Terascale 2  | 40 | 500      |      |           | 11   | 4   | 1458.5 <sup>4</sup>  |
| <input type="checkbox"/> | 605* | AMD Radeon HD 6310               | Terascale 2  | 40 | 500      |      |           | 11   | 5.5 | 1984.5 <sup>10</sup> |
| <input type="checkbox"/> | 606  | AMD Radeon HD 8180               | GCN          | 64 | 225      |      |           | 11.1 | 4.7 | 1723.5 <sup>2</sup>  |
| <input type="checkbox"/> | 622* | AMD Radeon HD 7290               | Terascale 2  | 40 | 280      | 400  |           | 11   | 4.2 | 1536                 |
| <input type="checkbox"/> | 623* | AMD Radeon HD 6290               | Terascale 2  | 40 | 280      | 400  |           | 11   | 4.2 | 1513 <sup>2</sup>    |
| <input type="checkbox"/> | 626  | AMD Radeon HD 6250               | Terascale 2  | 40 | 280      |      |           | 11   | 4   | 1446.5 <sup>6</sup>  |

**Archiwum (stare):** NVIDIA GeForce G 107M, NVIDIA GeForce G 105M (N10M-GE1), NVIDIA GeForce G 103M (G98), NVIDIA GeForce 9500M GE (MCP79Mx + NB9M), NVIDIA GeForce G 102M (MCP75), NVIDIA GeForce G 205M (MCP79MX), NVIDIA GeForce 9400M (G) / ION (LE) (MCP79MX), VIA Chrome9HD, ATI Mobility Radeon HD 3470 Hybrid X2 (M82-KT + RS780M), NVIDIA GeForce 9400M GeForceBoost, ATI Mobility Radeon HD 3470 (M82-KT), NVIDIA GeForce 9300M G (NB9M-GS1), NVIDIA ION 2 (GT218-ION-A3, GT218-ILV-A3), NVIDIA GeForce 9300M GS (NB9M-GS), NVIDIA Quadro FX 370M (NB9M-GLM), NVIDIA Quadro NVS 160M, NVIDIA GeForce 9200M GS (NB9M-GE), ATI Mobility Radeon HD 3450 (M82), ATI Mobility Radeon HD 3430 (M82-SE), ATI Mobility Radeon HD 3410 (M82-MPE), ATI Mobility Radeon HD 2400 XT (M74), ATI Radeon HD 4270 (RS880M), ATI Radeon HD 4250 (RS880M), ATI Radeon HD 4200 (RV620), Intel Graphics Media Accelerator (GMA) HD Graphics (GMA HD), NVIDIA Quadro NVS 150M, NVIDIA Quadro FX 360M (NB8M-GLM), ATI Mobility Radeon X1350 (M52), ATI Mobility Radeon X1400 (M54), NVIDIA GeForce 9100M G (MCP77MH MCP79MH), NVIDIA GeForce 8400M GS (G86M), NVIDIA Quadro NVS 135M (G86M), ATI Mobility Radeon HD 2400 (M72), ATI Radeon HD 3200 (RS780M), ATI Radeon HD 4225 (RS880M), ATI Radeon HD 4100, ATI Mobility Radeon HD 3400, ATI Radeon HD 3100 (RS780MC), NVIDIA GeForce 8400M G (G86M), NVIDIA Quadro NVS 130M (G86M), NVIDIA GeForce 8200M G (MCP77MV MCP79MVL), Intel Graphics Media Accelerator (GMA) 4700MHD (Montevina), Intel Graphics Media Accelerator (GMA) 4500MHD (Montevina), Intel Graphics Media Accelerator (GMA) 4500M (GL40), NVIDIA GeForce Go 7400 (G72M), NVIDIA Quadro FX 350M (G72M), NVIDIA Quadro NVS 120M (G72M), NVIDIA GeForce Go 7300 (G72M), NVIDIA Quadro NVS 110M (G72M), ATI Mobility Radeon X600 (M24), ATI Mobility FireGL V3200 (M24GL), ATI Mobility FireGL V3100 (M22GL), ATI Mobility Radeon X2300 (M64), ATI Mobility Radeon HD 2300 (M71), ATI Mobility Radeon 9700 (M11), ATI Mobility FireGL T2e (M11GL), ATI Mobility Radeon X1300 (M52), NVIDIA GeForce4 4200 Go (NV28M), ATI Mobility Radeon 9600 (M10), ATI Mobility FireGL T2 (M10GL), ATI Mobility Radeon 9550 (M12), NVIDIA GeForce Go 7200 (G72M), NVIDIA GeForce Go 6400 (NV44M1), ATI Mobility Radeon X300 (M22), NVIDIA GeForce Go 6250 (NV44M1), NVIDIA GeForce Go 6200 (NV44MV), NVIDIA GeForce FX Go 5700 (NV36M), NVIDIA Quadro FX Go 1000, NVIDIA GeForce FX Go 5600 / 5650 (NV31M), ATI Radeon Xpress X1270 (M690T), ATI Radeon Xpress X1250 (RS690M), ATI Radeon Xpress 1250, ATI Radeon Xpress X1200 (RS690M), Intel Graphics Media Accelerator (GMA) X3100 (Crestline), Intel Graphics Media Accelerator (GMA) 3650 (Cedar Trail), NVIDIA GeForce 7190M, NVIDIA GeForce 7150M (C67), ATI Radeon Xpress 1150 (RS482M), NVIDIA GeForce Go 6150 (C51MV), NVIDIA GeForce Go 6100 (C51MV), NVIDIA GeForce 7000M (C67), Intel Graphics Media Accelerator (GMA) 3600 (Cedar Trail), ATI Mobility Radeon 9200 (M9), ATI Mobility FireGL 9000 (M9GL), NVIDIA GeForce FX Go 5200 (NV31M), ATI Mobility Radeon 9000 (M9), NVIDIA GeForce 4 488 Go (NV17M), NVIDIA GeForce 4 460 Go (NV17M), NVIDIA GeForce 4 440 Go (NV17M), NVIDIA GeForce 4 420 Go (NV17M), Intel Graphics Media Accelerator (GMA) 3150 (Pineview), Intel Graphics Media Accelerator (GMA) 950 (GMA 950), ATI Mobility Radeon 7500 (RV200), ATI Mobility FireGL 7800, Intel Graphics Media Accelerator (GMA) 900 (GMA 900), ATI Radeon Xpress 200M, ATI Radeon Xpress 1100, SIS Mirage 3+ 672MX (SISM672), SIS Mirage 3 671MX (671MX), Intel Graphics Media Accelerator (GMA) 600 (GMA 600), Intel Graphics Media Accelerator (GMA) 500 (GMA 500), NVIDIA GeForce 3 Go (NV17M), NVIDIA GeForce 2 Go (200 / 100) (NV11), ATI Mobility Radeon 9100 IGP (RS350), ATI Mobility Radeon 9000 IGP (RC350), ATI Mobility Radeon M7 (M7), ATI Mobility Radeon M6 (M6), VIA Chrome9 HC (VN896), Intel Extreme Graphics 2 (Montara), ATI Mobility Radeon 7000 IGP (R100), ATI Radeon IGP 3400, ATI Radeon IGP 320M, VIA S3G UniChrome Pro II (Zoetrope), VIA S3G UniChrome Pro (Zoetrope), VIA Castle Rock (CLE266), SIS Mirage 2 M760 (M760), SIS Mirage M661FX , VIA S3 Graphics ProSavage8, ATI Mobility 128 M3 (M3), Silicon Motion SM502, unknown

Zawęż

0 należy odczytywać jako brak danych.

os \* im niższa wartość tym lepiej / \* lokata szacunkowa