

# UNMATCHED POWER. UNMATCHED CREATIVE FREEDOM.

## NVIDIA QUADRO P1000—DELIVERING DEMANDING VISUAL COMPUTING WORKFLOW PERFORMANCE.

The new Quadro P1000 combines the latest GPU architecture and display technologies, delivering up to 60% better performance than the previous generation. Powered by NVIDIA Pascal GPU technology, the P1000 is the most powerful low-profile professional graphics solution available, providing professional users with the most memory and best performance available in a small form factor workstation graphics card.

With professional customers looking to minimize the desktop footprint of their workstation without compromising performance, small form factor computing solutions are becoming more common. Today's professional applications require small form factor workstations to provide full size features and performance in a compact package.

The P1000's advanced and power efficient Pascal architecture GPU, 4K and 5K display support, and extensive ISV certification provide the most powerful low profile graphics solution available, delivering the performance and capabilities required by demanding professional applications in a compact and powerful professional graphics card. An expansive visual workspace of up to four 4K displays lets professionals view their designs, scenes or projects in stunning detail.

## SPECIFICATIONS AND SOLUTIONS

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#### Optimised for Exacta Proline Workstations NVIDIA Quadro P1000

|   |  |
|---|--|
| CUDA Cores                                | 640  |
| Peak Single Precision FP32 Performance    | 1.894  |
| GPU Memory                                | TFLOPS 4 GB  |
| Memory Interface                          | GDDR5  |
| Memory Bandwidth                          | 128-bit  |
| System Interface                          | 80 GB/s  |
| Maximum Power Consumption                 | PCI Express 3.0 x16                                    |
| Quadro Power Guidelines                   | 47 W   |
| Energy Star Enabling                      | Yes  |
| Thermal Solution                          | Ultra-quiet active fansink                             |
| Form Factor                               | 2.713" H x 5.906" L, Single Slot                       |
| Display Connectors                        | mDP 1.4 (4)  |
| DisplayPort with Audio                    | Yes  |
| DVI-D Single-Link Connector               | Via optional adapters                                  |
| HDMI Support                              | Via optional adapters                                  |
| VGA Support                               | Via optional adapters                                  |
| Number of Displays Supported              | 4  |
| Maximum DP 1.4 Resolution                 | HDR 5120 x 2880 at 60Hz (30-bit color)                 |
| 5K Display Support                        | HDR 5120 x 2880 at 60Hz (30-bit color)                 |
| 4K Display Support                        | HDR 4096 x 2160 at 60Hz or 3840 x 2160 at 60Hz         |
| Maximum DVI-D DL Resolution               | 2560 x 1600 at 60Hz via 3rd party adapter              |
| Maximum DVI-D SL Resolution               | 1920 x 1200 at 60Hz via optional adapter               |
| Quadro and NVS Display Resolution Support |  |
| HDCP Support                              | Yes  |
| Graphics APIs                             | Shader Model 5.1, OpenGL 4.5, DirectX 12.0, Vulkan 1.0 |
| Compute APIs                              | CUDA, DirectCompute, OpenCL                            |
| NVIEW                                     | Yes  |
| NVIDIA MOSAIC                             | Yes (Windows 10, 8.1, 8, 7, and Linux)                 |
| Warranty                                  | 3 Years  |

