



**UNMATCHED POWER.
UNMATCHED CREATIVE
FREEDOM.**
NVIDIA® QUADRO® P1000

Full Professional Performance and Features in a Small Form Factor.

The Quadro P1000 combines a 640 CUDA core Pascal GPU, 4 GB GDDR5 on-board memory and advanced display technologies in a low-profile form factor to deliver amazing graphics performance for demanding professional applications. Support for four 4K displays (4096x2160 @ 60Hz) with HDR color gives you an expansive visual workspace to see your ideas come to life in stunning detail.

Quadro cards are certified with a broad range of sophisticated professional applications, tested by leading workstation manufacturers, and backed by a global team of support specialists. This gives you the peace of mind to focus on doing your best work. Whether you're developing revolutionary products or telling spectacularly vivid visual stories, Quadro gives you the performance to do it brilliantly.

FEATURES

- > Four DisplayPort 1.4 Connectors¹
- > DisplayPort with Audio
- > NVIDIA nView® Desktop Management Software
- > HDCP 2.2 Support
- > NVIDIA Mosaic²
- > Dedicated hardware video encode and decode engines³



SPECIFICATIONS

| | |
|---------------------------|---|
| GPU Memory | 4 GB GDDR5 |
| Memory Interface | 128-bit |
| Memory Bandwidth | Up to 82 GB/s |
| NVIDIA CUDA® Cores | 640 |
| System Interface | PCI Express 3.0 x16 |
| Max Power Consumption | 47 W |
| Thermal Solution | Active |
| Form Factor | 2.713" H x 5.7" L, Single Slot, Low Profile |
| Display Connectors | 4x mDP 1.4 |
| Max Simultaneous Displays | 4 direct, 4 DP 1.4 Multi-Stream |
| Display Resolution | 4x 4096x2160 @ 60Hz 4x 5120x2880 @ 60Hz |
| Graphics APIs | Shader Model 5.1, OpenGL 4.5⁴, DirectX 12.0⁵, Vulkan 1.0⁶ |
| Compute APIs | CUDA, DirectCompute, OpenCL™ |

¹ VGA/DVI/HDMI support via adapter/connector/bracket | ² Windows 7, 8, 8.1 and Linux | ³ Please refer to <http://developer.nvidia.com/video-encode-decode-gpu-support-matrix> for details on NVIDIA GPU video encode and decode support | ⁴ Product is based on a published Khronos Specification, and is expected to pass the Khronos Conformance Testing Process when available. Current conformance status can be found at www.khronos.org/conformance | ⁵ GPU supports DX 12.0 API, Hardware Feature Level 12_1

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