



QUADRO

NVIDIA

UNMATCHED POWER.
UNMATCHED CREATIVE
FREEDOM.
NVIDIA® QUADRO® P5000

Get unmatched power, unmatched creative freedom with NVIDIA Quadro—the world’s most powerful workstation graphics.

The NVIDIA Quadro P5000 workstation graphics card, powered by NVIDIA Pascal™ GPU technology, features 16 GB memory capacity and enables an expansive visual workspace with quad display outputs. Work with larger models, complex visual effects and simulations, larger rendering tasks, and more life-like VR experiences in your workflow today and be well prepared for the challenges of tomorrow.

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 Connectors
- > DisplayPort with Audio
- > VGA Support¹
- > 3D Stereo Support with Stereo Connector¹
- > NVIDIA GPUDirect™ Support
- > Quadro Sync II² Compatibility
- > NVIDIA nView® Desktop Management Software Compatibility
- > HDCP 2.2 Support
- > NVIDIA Mosaic³
- > Dedicated hardware video encode and decode engines⁴



SPECIFICATIONS

GPU Memory	16 GB GDDR5X
Memory Interface	256-bit
Memory Bandwidth	Up to 288 GB/s
NVIDIA CUDA® Cores	2560
System Interface	PCI Express 3.0 x16
Max Power Consumption	180 W
Thermal Solution	Active
Form Factor	4.4" H x 10.5" L, Dual Slot, Full Height
Display Connectors	4x DP 1.4 + DVI-D DL
Max Simultaneous Displays	4 direct, 4 DP 1.4 Multi-Stream
Max DP 1.4 Resolution	7680 x 4320 @ 30 Hz
Max DVI-D DL Resolution	2560 x 1600 @ 60 Hz
Graphics APIs	Shader Model 5.1, OpenGL 4.5 ⁵ , DirectX 12.0 ⁶ , Vulkan 1.0 ⁵
Compute APIs	CUDA, DirectCompute, OpenCL™

To learn more about the NVIDIA Quadro P5000 visit www.nvidia.com/quadro

¹ Via adapter/connector/bracket | ² NVIDIA Quadro Sync II card sold separately | ³ Windows 7, 8, 8.1, 10 and Linux | ⁴ Please refer to <http://developer.nvidia.com/video-encode-decode-gpu-support-matrix> for details on NVIDIA GPU video encode and decode support | ⁵ 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 | ⁶ GPU supports DX 12.0 API, Hardware Feature Level 12_1

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