

UNMATCHED POWER. UNMATCHED CREATIVE FREEDOM.

NVIDIA QUADRO P4000—THE WORLD'S MOST POWERFUL SINGLE SLOT PROFESSIONAL GRAPHICS CARD.

The new NVIDIA VR Ready Quadro P4000 combines a 1792 CUDA Core Pascal GPU, large 8GB GDDR5 memory and advanced display technologies to deliver the performance and features that are required by demanding professional applications. The ability to create an expansive visual workspace of up to four 5K displays (5120 x 2880 at 60Hz) with HDR colour support lets you view your creations in stunning detail. The P4000 is specially designed with the performance that is necessary to drive immersive VR environments. Additionally, you can create massive digital signage solutions by connecting multiple P4000s via Quadro Sync II.

Designs become more complex over time. Visual effects grow in size, complexity, and scope. Scientific visualization and compute problems continue to push the boundaries of workstation capabilities. VR is changing all facets of entertainment, design, engineering, architecture, and medicine. As professional workflows grow in size and complexity, the demand for visual compute power grows with it.

The new Quadro P4000 combines the latest GPU architecture and display technologies to deliver the best performance and features available in a single slot professional graphics card solution. The P4000 enables users to create large, complex designs, render detailed photo realistic imagery, and create detailed, lifelike VR experiences.

SPECIFICATIONS AND SOLUTIONS

Optimised for Exacta Proline Workstations NVIDIA Quadro P4000

CUDA Cores	1792
Peak Single Precision FP32 Performance	5.3 TFLOPS
	NVIDIA SLI HB
	8 GB GDDR5
Multi-GPU Scalability	256-bit
GPU Memory	243 GB/s
Memory Interface	PCI Express 3.0 x16
Memory Bandwidth	105 W
System Interface	
Maximum Power Consumption	Yes
Quadro Power Guidelines	
Energy Star Enabling	
Thermal Solution Ultra-quiet active fansink	
Form Factor	4.40" H x 9.50" L, Single Slot
Display Connectors	DP 1.4 (4) + Stereo
DisplayPort with Audio	Yes
DVI-D Single-Link Connector	Via included adapter
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 2560
Maximum DVI-D DL Resolution	x 1600 at 60Hz via 3rd party adapter
Maximum DVI-D SL Resolution	1920 x 1200 at 60Hz via included adapter
Quadro and NVS Display Resolution Support	
HDCP Support	Yes
Quadro Sync II Compatible	Yes (Frame Lock and Genlock)
NVIDIA GPU Direct Compatible	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

