

UNMATCHED POWER. UNMATCHED CREATIVE FREEDOM.

NVIDIA QUADRO P6000—THE WORLD'S MOST POWERFUL WORKSTATION GRAPHICS SOLUTION.

The NVIDIA Quadro P6000 is the most advanced pure professional graphics solution ever created, combining the latest GPU, memory and display technologies that result in unprecedented performance and breakthrough capabilities. Professionals across a range of industries can now create their most complex designs, solve the most challenging visualization problems and experience their creations within the most detailed, lifelike and immersive VR environments. Additionally, you can create massive digital signage solutions by connecting multiple P6000s 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.

Quadro P6000's Pascal architecture GPU implementation, GDDR5X memory and DisplayPort 1.4 support synergistically deliver the best overall single precision FP32 performance and professional graphics solutions. The P6000 enables users to create large, complex designs, interactively render photorealistic imagery, and create detailed, lifelike VR experiences.

SPECIFICATIONS AND SOLUTIONS

Optimised for Exacta Proline Workstations NVIDIA Quadro P6000

CUDA Cores	3840	
Peak Single Precision FP32 Performance	12.0 TFLOPS	
Multi-GPU Scalability	NVIDIA SLI HB 24	
GPU Memory	GB GDDR5X	
Memory Interface	384-bit	
Memory Bandwidth	432 GB/s	
System Interface	PCI Express 3.0 x16	
Maximum Power Consumption	250W	
Quadro Power Guidelines		
Energy Star Enabling		
Thermal Solution Ultra-quiet active fansink	Yes	
Form Factor		
Display Connectors	4.40" H x 10.50" L, Single Slot DP	
DisplayPort with Audio	1.4 (4) + DVI-D DL + Stereo Yes	
DVI-D Single-Link Connector HDMI Support	Via included adapter	
VGA Support	Via optional adapters	
Number of Displays Supported	Via optional adapters	
Maximum DP 1.4 Resolution 5K	4	
Display Support	HDR 7680 x 4320 at 30Hz (30-bit color)	
4K Display Support	HDR 5120 x 2880 at 60Hz (30-bit color)	
Maximum DVI-D DL Resolution	HDR 4096 x 2160 at 60Hz or 3840 x 2160 at 60Hz	
Maximum DVI-D SL Resolution	2560 x 1600 at 60Hz via 3rd party adapter	
Quadro and NVS Display Resolution Support	1920 x 1200 at 60Hz via included adapter	
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	

