

## UNMATCHED POWER. UNMATCHED CREATIVE FREEDOM. NVIDIA® QUADRO® P620

### Powerful Professional Graphics with Expansive 4K Visual Workspace

The NVIDIA Quadro P620 combines a 512 CUDA core Pascal GPU, large on-board memory and advanced display technologies to deliver amazing performance for a range of professional workflows. 2 GB of ultra-fast GPU memory enables the creation of complex 2D and 3D models and a flexible single-slot, low-profile form factor makes it compatible with even the most space and power-constrained chassis. Support for up to four 4K displays (4096x2160 @ 60 Hz) with HDR color gives you an expansive visual workspace to view your creations 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, giving 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 Mini DisplayPort 1.4 Connectors<sup>1</sup>
- DisplayPort with Audio
- NVIDIA nView® Desktop Management Software
- HDCP 2.2 Support
- NVIDIA Mosaic<sup>2</sup>
- Dedicated hardware video encode and decode engines<sup>3</sup>



#### SPECIFICATIONS

GPU Memory	<b>2 GB GDDR5</b>
Memory Interface	<b>128-bit</b>
Memory Bandwidth	<b>Up to 80 GB/s</b>
NVIDIA CUDA® Cores	<b>512</b>
System Interface	<b>PCI Express 3.0 x16</b>
Max Power Consumption	<b>40 W</b>
Thermal Solution	<b>Active</b>
Form Factor	<b>2.713" H x 5.7" L, Single Slot, Low Profile</b>
Display Connectors	<b>4x Mini DisplayPort 1.4</b>
Max Simultaneous Displays	<b>4 direct, 4x DisplayPort 1.4 Multi-Stream</b>
Display Resolution	<b>4x 4096x2160 @ 60 Hz 4x 5120x2880 @ 60Hz</b>
Graphics APIs	<b>Shader Model 5.1, OpenGL 4.5<sup>4</sup>, DirectX 12.0<sup>5</sup>, Vulkan 1.0<sup>4</sup></b>
Compute APIs	<b>CUDA, DirectCompute, OpenCL™</b>

<sup>1</sup> VGA/DVI/HDMI support via adapter/connector/bracket | <sup>2</sup> Windows 7, 8, 8.1, 10 and Linux | <sup>3</sup> Please refer to <http://developer.nvidia.com/video-encode-decode-gpu-support-matrix> for details on NVIDIA GPU video encode and decode support | <sup>4</sup> 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](http://www.khronos.org/conformance) | <sup>5</sup> GPU supports DX12.0 API, Hardware Feature Level 12\_1

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