



## UNMATCHED POWER. UNMATCHED CREATIVE FREEDOM. NVIDIA® QUADRO® P400

### Essential Professional Graphics For Maximum Productivity

The NVIDIA Quadro P400 combines a 256 CUDA core Pascal GPU, large on-board memory and advanced display technologies to deliver great performance for a range of professional applications. 2 GB of ultra-fast GPU memory makes it easy to manage complex 2D and 3D models and the single-slot, low-profile form factor makes it compatible with even the most space and power-constrained chassis. Support for three 4K displays (4096x2160 @ 60Hz) with HDR color gives you a wide visual workspace to view your work in extremely high resolution.

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.

### THE PNY ADVANTAGE

PNY provides unsurpassed service and commitment to its professional graphics customers. In addition, PNY delivers a complete solution including the appropriate adapters, cables, brackets, driver software installation disc and documentation to ensure a quick and successful install.

### FEATURES

- > Three 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>
- > NVIDIA Iray and MentalRay Support

### PACKAGE CONTENTS

- > NVIDIA® Quadro® P400 Professional Graphics Board
- > Attached Low-Profile (SFF) Bracket
- > Unattached Full-Height (ATX) Bracket
- > Software Installation Disc
- > Printed Quick Start Guide
- > Three mDP to DP Adapters
- > One mDP to DVI-D SL Adapter

### WARRANTY AND SUPPORT

- > 3-Year Warranty
- > Pre- and Post-Sales Technical Support
- > Dedicated Field Application Engineers
- > Direct Tech Support Hot Lines



| PNY PART NUMBER           | VCQP400-PB<br>VCQP400DVI-PB*                                                                             |
|---------------------------|----------------------------------------------------------------------------------------------------------|
| SPECIFICATIONS            |                                                                                                          |
| GPU Memory                | 2 GB GDDR5                                                                                               |
| Memory Interface          | 64-bit                                                                                                   |
| Memory Bandwidth          | Up to 32 GB/s                                                                                            |
| NVIDIA CUDA® Cores        | 256                                                                                                      |
| System Interface          | PCI Express 3.0 x16                                                                                      |
| Max Power Consumption     | 30 W                                                                                                     |
| Thermal Solution          | Active                                                                                                   |
| Form Factor               | 2.713" H x 5.7" L,<br>Single Slot, Low Profile                                                           |
| Display Connectors        | 3x mDP 1.4                                                                                               |
| Max Simultaneous Displays | 3 direct, 3 DP 1.4<br>Multi-Stream                                                                       |
| Display Resolution        | 3x 4096x2160 @ 60Hz<br>1x 5120x2880 @ 60Hz                                                               |
| Graphics APIs             | Shader Model 5.1,<br>OpenGL 4.5 <sup>3</sup> ,<br>DirectX 12.0 <sup>4</sup> ,<br>Vulkan 1.0 <sup>3</sup> |
| Compute APIs              | CUDA, DirectCompute,<br>OpenCL™                                                                          |

<sup>1</sup> VGA/DVI/HDMI support via adapter/connector/bracket | <sup>2</sup> Windows 7, 8, 8.1 and Linux | <sup>3</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>4</sup> GPU supports DX12.0 API, Hardware Feature Level 12\_1

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\* VCQP400DVI-PB includes three mDP to DVI-D SL adapters only



PNY Technologies Europe  
Rue Joseph Cugnot BP40181 - 33708 Mérignac Cedex | France  
T +33 (0)5 56 13 75 75 | F +33 (0)5 56 13 75 77

For more information visit: [www.pny.eu](http://www.pny.eu)