

# Accelerate your creativity with NVIDIA® Quadro®—the world's most powerful workstation graphics.

The NVIDIA Quadro K420 delivers power-efficient 3D application performance and capability. 1 GB of DDR3 GPU memory with fast bandwidth enables you to create complex 3D models, and a flexible single-slot and low-profile form factor makes it compatible with even the most space and power-constrained chassis. Plus, an all-new display engine drives up to four displays with DisplayPort 1.2 support for ultra-high resolutions like 3840x2160 @ 60 Hz with 30-bit color.

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**

- > DisplayPort 1.2 Connector
- > DisplayPort with Audio
- > DVI-I Dual-Link Connector
- > VGA Support1
- > NVIDIA nView™ Desktop Management Software Compatibility
- > HDCP Support
- > NVIDIA Mosaic<sup>2</sup>

# **PACKAGE CONTENTS**

- » NVIDIA® Quadro® K420 Professional Graphics Board
- > Attached Low-Profile Bracket
- > Unattached Standard-Height Bracket
- > Software Installation Disc
- > Printed Quick Start Guide
- > DisplayPort to DVI-D SL Adapter
- > DVI to VGA Adapter

# **WARRANTY AND SUPPORT**

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



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PNY PART NUMBER	VCQK420-PB
SPECIFICATIONS	
GPU Memory	1 GB DDR3
Memory Interface	128-bit
Memory Bandwidth	29.0 GB/s
NVIDIA CUDA® Cores	192
System Interface	PCI Express 2.0 x16
Max Power Consumption	41 W
Thermal Solution	Ultra-Quiet Active Fansink
Form Factor	2.713" H × 6.3" L, Single Slot, Low Profile
Display Connectors	DVI-I DL + DP 1.2
Max Simultaneous Displays	2 Direct, 4 DP 1.2 Multi-Stream
Max DP 1.2 Resolution	3840 x 2160 at 60 Hz
Max DVI-I DL Resolution	2560 × 1600 at 60 Hz
Max DVI-I SL Resolution	1920 × 1200 at 60 Hz
Max VGA Resolution	2048 × 1536 at 85 Hz
Graphics APIs	Shader Model 5.0, OpenGL 4.5³, DirectX 11.2 <sup>4</sup>
Compute APIs	CUDA, DirectCompute, OpenCL™

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For more information visit: www.pny.com/quadro

¹ Via supplied adapter/connector/bracket | ² Windows 7, 8, 8.1 and Linux | ³ 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 | ² GPU supports DX 11.2 API, Hardware Feature Level 11\_0