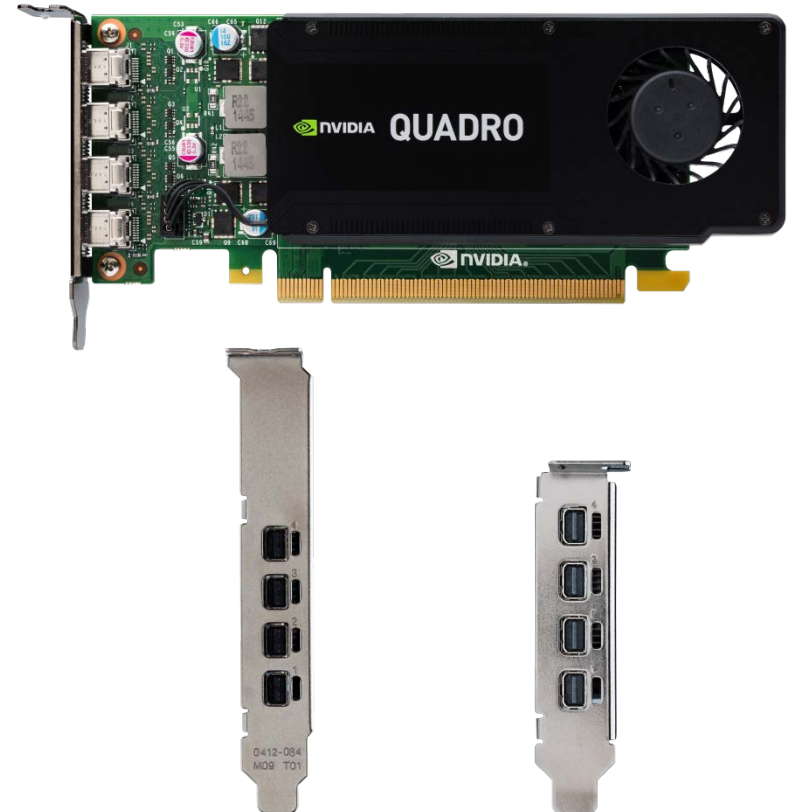


**NVIDIA® QUADRO®  
AUTHORIZED PARTNER**

**PNY®**

**NVIDIA Quadro K1200**

**Product Snapshot**



# NVIDIA Quadro Value Proposition

Quadro is the world's most advanced and trusted accelerator of professional workflows

## Workflow Acceleration

Highest performance powered by NVIDIA Maxwell architecture GPUs

Scaled up workflow acceleration with NVIDIA Multi-GPU configurations

## Compatibility

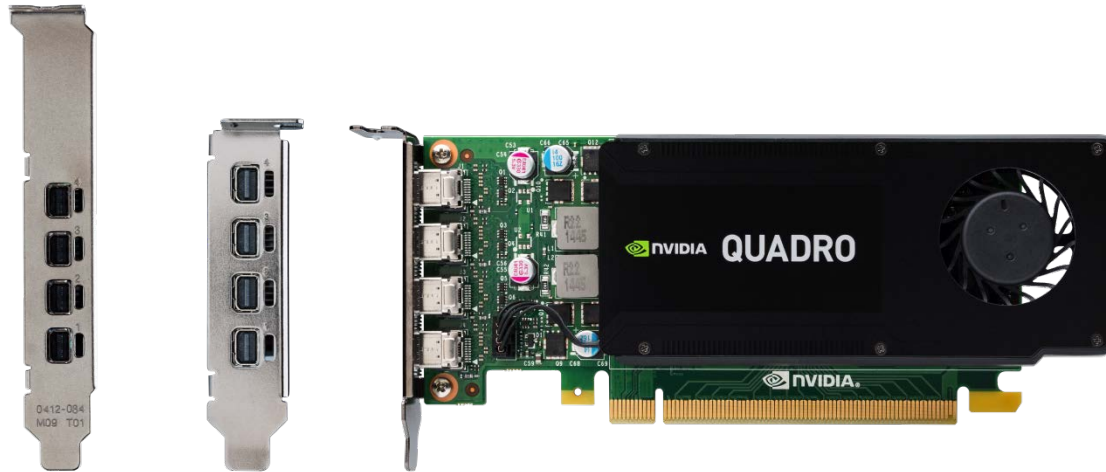
Compatibility across multiple platforms to guarantee stability

Application certifications and compatibility with over 100 professional applications

## Reliability

Simplified driver deployment through long-life, stable driver releases

Built to one design specification to ensure consistent quality and reliability



# NVIDIA Quadro Desktop Products

## Professional solutions by product segment

Largest CAD Models, CAE, Photorealistic Rendering, Ultimate DCC Effects, Seismic Exploration, 3D Medical Imaging, GPGPU Compute

+ 4 GB of GPU Memory,  
Approximately 61% Faster

M6000 12 GB



K6000 12 GB



Large/Complex CAD Models, Complex DCC Effects, Seismic Exploration, 3D Medical Imaging

+ ECC Memory, Approximately  
65% Faster

M5000 8 GB



K5200 8 GB



Large/Complex CAD Models, Advanced DCC, Medical Imaging

+ 4 GB of GPU Memory, Approximately  
76% faster, Mosaic with Sync

M4000 8 GB



K4200 4 GB



Medium Size/Complexity CAD Models, Basic DCC, Medical Imaging, PLM

+ 2 GB of GPU Memory,  
Approximately 76% faster

K2200 4 GB



K1200 4 GB



Small/Simple CAD Models, Video, Entry PLM

K620 2GB



K420 1GB and 2GB



ISV Certification, Higher performance  
than IGP and Gaming Graphics

Entry

Mid-Range

High End

Ultra High End

# NVIDIA Quadro K1200

Includes full-height and low-profile brackets

Allows installation into any workstation, desktop, or SFF system

- Full-height (ATX) with included bracket
- Low-profile (SFF) when necessary



# NVIDIA Quadro K1200

Goes where integrated graphics can't

Maxwell architecture GPU trounces integrated graphics

- Drive up to four 4K displays simultaneously
- Fluid interactivity with 4K optimized applications



# NVIDIA Quadro K1200 Solutions



## MANUFACTURING

> CAD

> CAE



## ENERGY

> Oil & Gas

> Seismic Surveys



## SCIENCES

> Medical Imaging

> Visualization



## MEDIA & ENTERTAINMENT

> Digital Content Creation

> Television/Film

# NVIDIA Quadro K1200

## Incredible 3D application performance

### Performance and features relative to Quadro K620

- 2x dataset capacity gain over K620
- 2.5x memory bandwidth gain over K620
- 1.5x graphics performance gain over K620
- 2x the performance of comparable AMD offering<sup>1</sup>
- Drives four 4K displays simultaneously
- Compatible with NVIDIA Iray



2x | 2.5x | 1.5x | 2x

<sup>1</sup>Based on Geomean of VP12 benchmark results



# Product Comparison

## Quadro K620 and K1200

	Quadro K620	Quadro K1200	Performance Delta
GPU Architecture	GM107	GM107	
Graphics Performance (VP12)	14	21	1.5x Greater
GPU Cores	384 CUDA	512 CUDA	1.33x Greater
Peak Single Precision	860 GFLOPs	1 TFLOP	1.15x Greater
GPU Memory	2 GB	4 GB	2x Greater
Memory Bandwidth	29 GB/s	80 GB/s	2.75x Greater
Display Connectors	DP 1.2 + DVI-I DL	4 Mini DisplayPort 1.2	
Displays Driven	4 <sup>1</sup>   2	4	
Board Power	41 W	45 W	

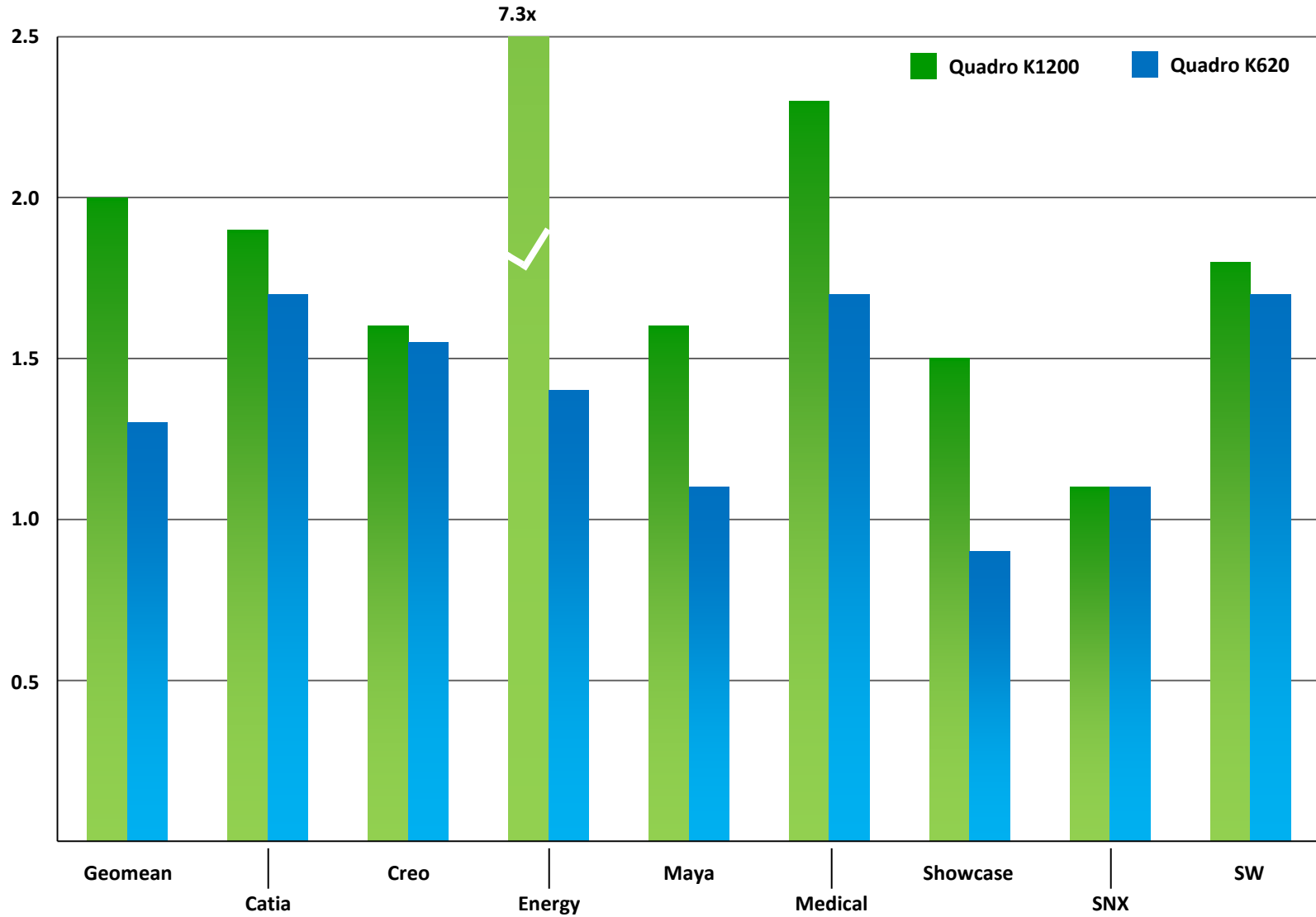
<sup>1</sup>With DisplayPort Multi Stream Transport (MST) compliant displays.





# NVIDIA Quadro K1200 and K620

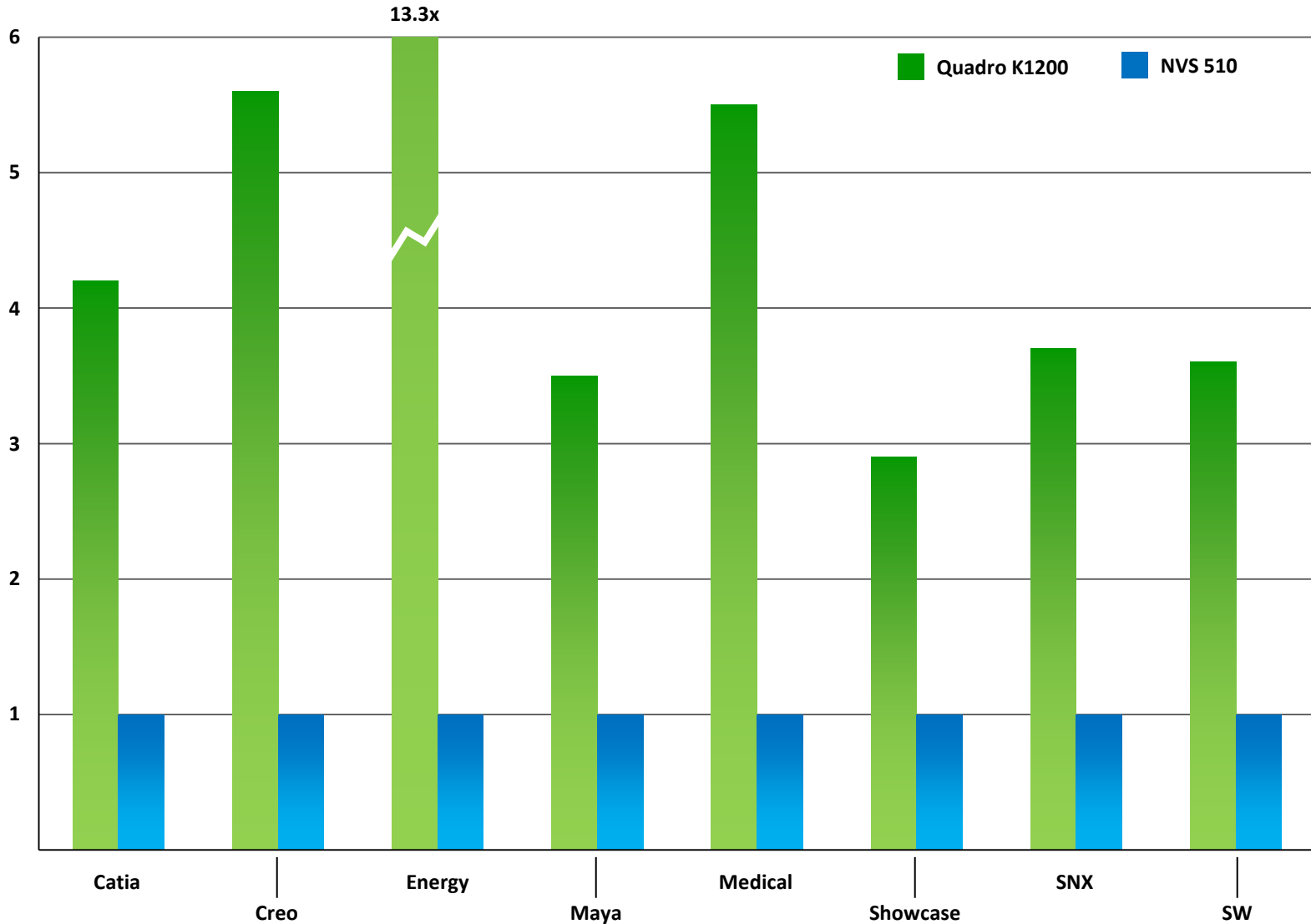
## VP12 Geomean comparison<sup>1</sup>



<sup>1</sup>Of all subtest composites.

# NVIDIA Quadro K1200 and NVS 510

## Performance comparison<sup>1</sup>



<sup>1</sup>Intel i5-2400 3.10 GHz, 8 GB RAM, Win 7 Pro 64-bit, NVIDIA driver 347.88, Viewperf 12.

# 4K Application Support

Coming to pro apps like **SOLIDWORKS 2016**

New 4K user interface is just the beginning:

- Greater detail in 3D assemblies and designs
- Sharper lines when viewing in 2D

NVIDIA Quadro graphics boards accelerate creativity

- Fluidly interact with assemblies and designs
- Create photorealistic renderings with NVIDIA Iray

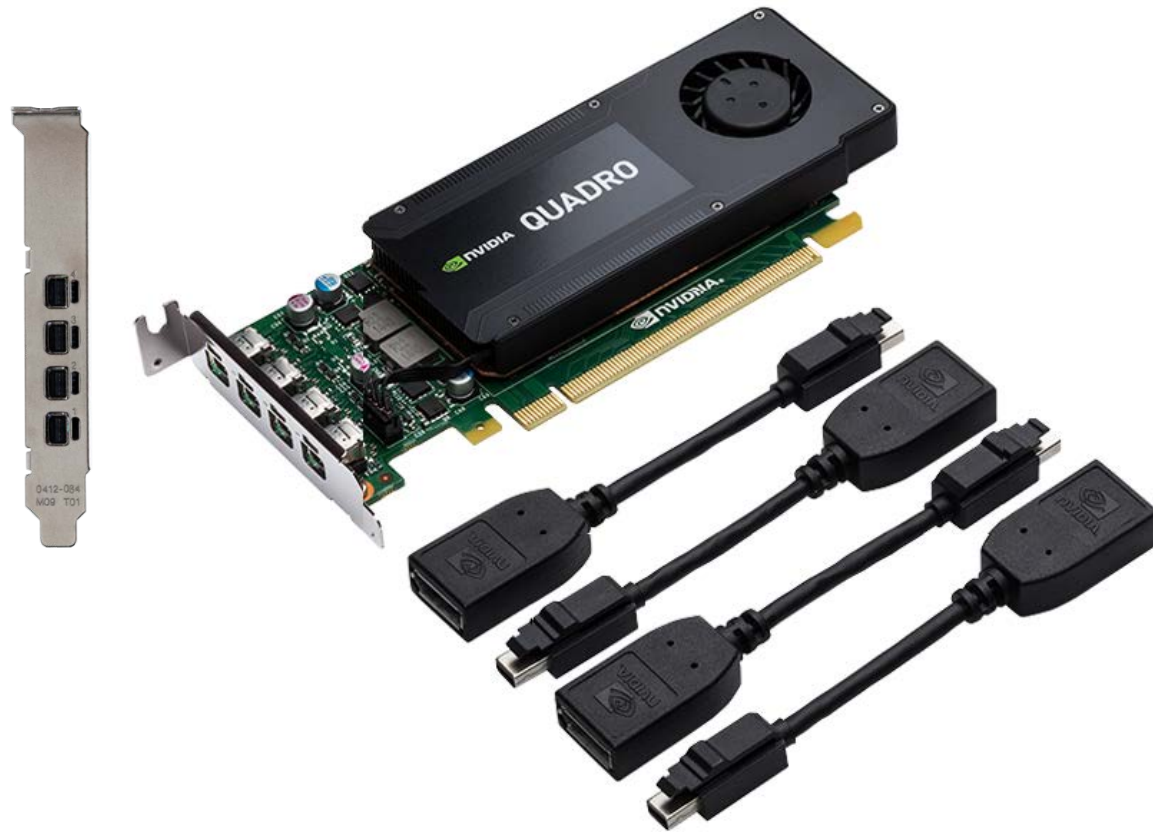


 **SOLIDWORKS**



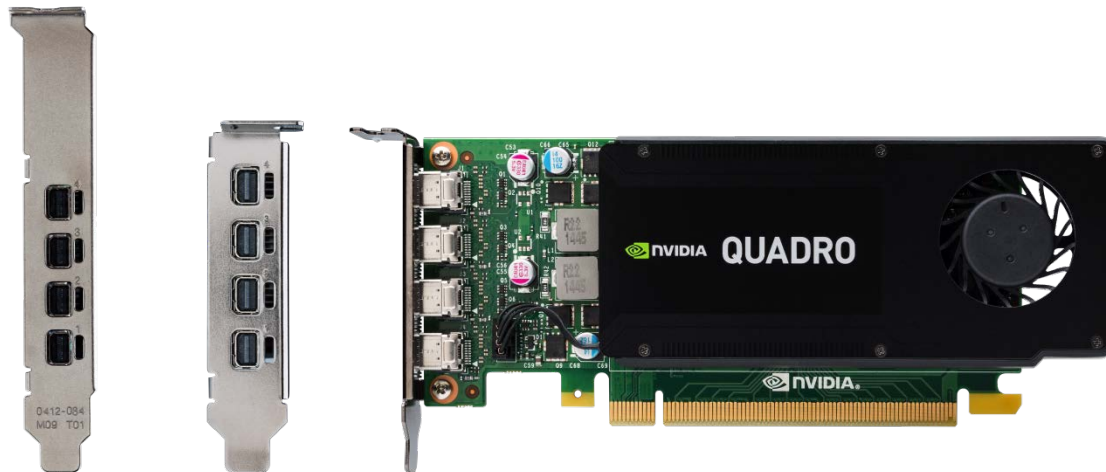
# PNY PN VCQK1200DP-PB (for DisplayPort)

Includes 4 mDP to DP adapters, ATX bracket



# NVIDIA Quadro 1200: The Professional Choice

	NVIDIA Quadro	NVIDIA GeForce
User Profile	✓ Optimized for professional workflows	Optimized for Gaming
Tested, Certified, and Tuned for Professional Applications	✓ Recommended and certified on 200+ professional applications	Not certified and not tested
Productivity Features and Benefits on Professional Applications	✓ Available when using Quadro	Not available when using GeForce
Professional Display and Desktop Management Tools	✓ NVIEW, Mosaic, NV Enterprise Tools	Multi-display gaming only
Extended Availability	✓ 2+ year product lifecycle	Short availability – driven by rapid gaming market product refreshes
Support and Warranty	✓ 3 year warranty, pre- and post-sales support, Field Application Engineers (FAEs)	Limited warranty and support resources geared for gaming needs
Designed, Built and Tested by NVIDIA	✓ Designed, built, and tested by NVIDIA to a single specification and controlled BOM	Modified and built by multiple third party manufacturers



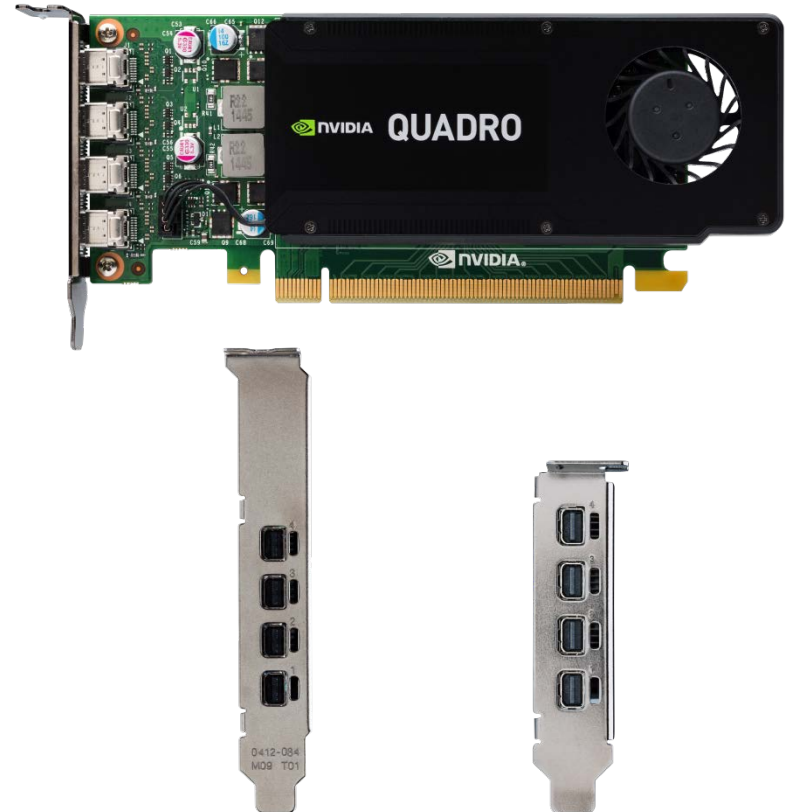
# PNY's Service and Commitment

1	3 year warranty
2	Pre-sales support and configuration assistance
3	Support for all workstation brands and complex installations
4	Advanced replacement for mission-critical deployments
5	Dedicated Quadro Field Application Engineers
6	U.S. 800 number hotline and email technical support
7	Support escalation for prompt issue resolution
8	Certified software support and bug reporting
9	Published product support and training materials
10	All necessary accessories and driver software included



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