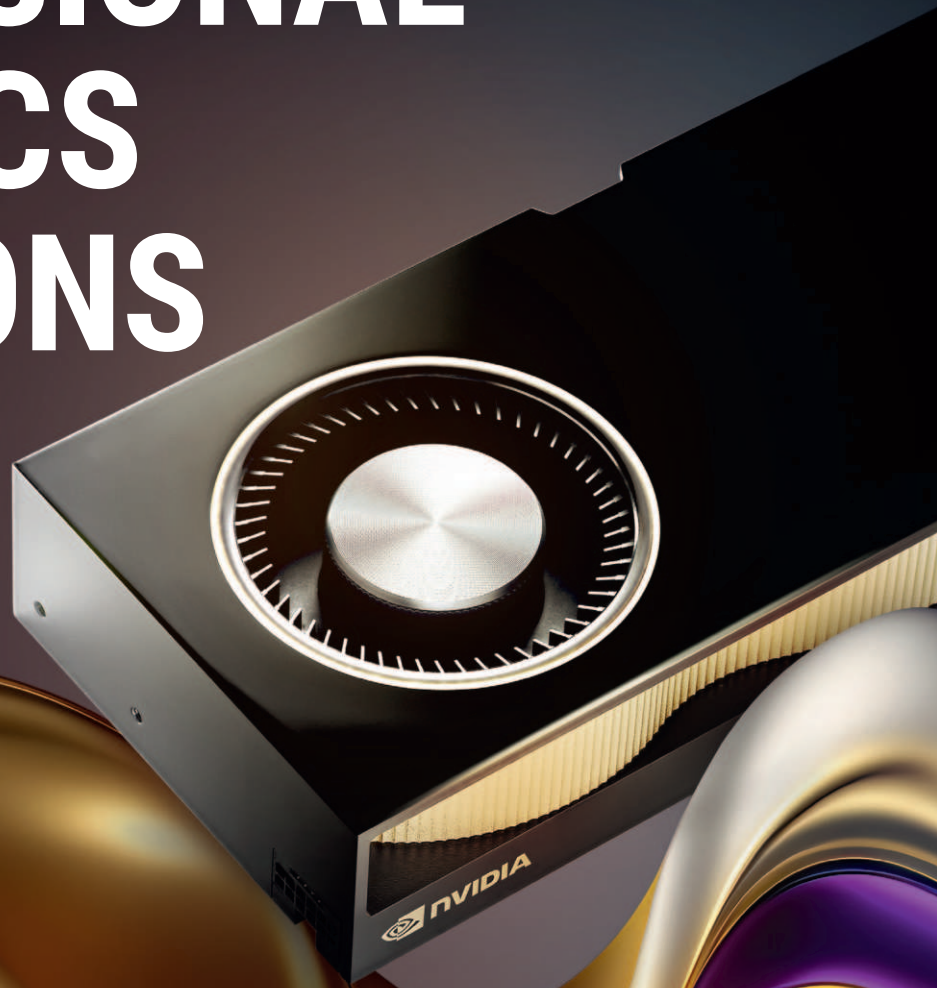


PNY[®]

NVIDIA[®] PROFESSIONAL GRAPHICS SOLUTIONS



WHICH PNY PROFESSIONAL BOARD IS RIGHT

| | | GPU SPECIFICATIONS | | | | PERFORMANCE | |
|---|-----|---------------------|-------------------------|------------|------------------|---------------------------|--------------------------------|
| | | Part Number | CUDA Cores ¹ | GPU Memory | Memory Bandwidth | Tensor Cores ¹ | Ray Tracing Cores ¹ |
| NVIDIA FOR DESKTOP WORKSTATIONS | | | | | | | |
| NVIDIA RTX PRO 6000 Blackwell Workstation Edition | NEW | VCNRTXPRO6000-PB | 24064 | 96GB | 1792GB/s | 752 | 188 |
| NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition | NEW | VCNRTXPRO6000MQ-PB | 24064 | 96GB | 1792GB/s | 752 | 188 |
| NVIDIA RTX PRO 5000 Blackwell | NEW | VCNRTXPRO5000-PB | 14080 | 48GB | 1344GB/s | 440 | 110 |
| NVIDIA RTX PRO 4500 Blackwell | NEW | VCNRTXPRO4500-PB | 10496 | 32GB | 896GB/s | 328 | 82 |
| NVIDIA RTX PRO 4000 Blackwell | NEW | VCNRTXPRO4000-PB | 8960 | 24GB | 672GB/s | 280 | 70 |
| NVIDIA RTX PRO 4000 SFF Blackwell ⁴ | NEW | VCNRTXPRO4000LP-PB | 8960 | 24GB | 672GB/s | 280 | 70 |
| NVIDIA RTX PRO 2000 Blackwell ⁴ | NEW | VCNRTXPRO2000-PB | 4480 | 16GB | 360GB/s | 192 | 48 |
| NVIDIA A800 40GB Active | | VCNA800-SB | 6912 | 40GB | 1506GB/s | 432 | - |
| NVIDIA RTX 6000 Ada Generation | | VCNRTX6000ADA-PB | 18176 | 48GB | 960GB/s | 568 | 142 |
| NVIDIA RTX 5000 Ada Generation | | VCNRTX5000ADA-PB | 12800 | 32GB | 576GB/s | 400 | 100 |
| NVIDIA RTX 4500 Ada Generation | | VCNRTX4500ADA-PB | 7680 | 24GB | 432GB/s | 240 | 60 |
| NVIDIA RTX 4000 Ada Generation | | VCNRTX4000ADA-PB | 6144 | 20GB | 360GB/s | 192 | 48 |
| NVIDIA RTX 4000 SFF Ada Generation | | VCNRTXA4000ADALP-PB | 6144 | 20GB | 280GB/s | 192 | 48 |
| NVIDIA RTX 2000 Ada Generation | | VCNRTXA2000ADA-PB | 3328 | 12GB | 224GB/s | 104 | 26 |
| NVIDIA RTX 2000E Ada Generation | | VCNRTX2000EADA-PB | 3328 | 12GB | 224GB/s | 104 | 26 |
| NVIDIA RTX A1000 | | VCNRTXA1000-PB | 2304 | 8GB | 192GB/s | 72 | 18 |
| NVIDIA RTX A400 | | VCNRTXA400-PB | 768 | 4GB | 96GB/s | 24 | 6 |
| NVIDIA FOR DATA CENTERS | | | | | | | |
| NVIDIA RTX PRO 6000 Blackwell Server Edition | NEW | TCSRTXPRO6000SE-PB | 24064 | 96GB | 1597GB/s | 752 | 188 |
| NVIDIA H200 NVL | | TCSH200NVLPCIE-PB | 16896 | 141GB | 4800GB/s | 528 | - |
| NVIDIA H100 NVL | | TCSH100NVLPCIE-PB | 16896 | 94GB | 3938GB/s | 528 | - |
| NVIDIA L40S | | TCSL40SPCIE-PB | 18176 | 48GB | 864GB/s | 568 | 142 |
| NVIDIA L40 | | TCSL40PCIE-PB | 18176 | 48GB | 864GB/S | 568 | 142 |
| NVIDIA A16 | | TCSA16M-PB | 1280 x4 | 16GB x4 | 200GB/s x4 | 40 x4 | 10 x4 |
| NVIDIA A10 | | TCSA10M-PB | 9216 | 24GB | 600GB/s | 288 | 72 |
| NVIDIA L4 | | TCSL4PCIE-PB | 7680 | 24GB | 300GB/s | 240 | 60 |
| NVIDIA A2 | | TCSA2MATX-PB | 1280 | 16GB | 200GB/s | 40 | 10 |

1. Processing cores cannot be compared between GPU generations due to several important architectural differences that exist between designs.

2. Adapters available for HDMI.

3. NVIDIA RTX PRO SYNC required

4. Preliminary values

FOR YOU?

| | DISPLAY TECHNOLOGY | | | | | | | OPTIONS | | | | |
|------------------------------------|--------------------------|-------------------------|------------------------------------|----------------|-----------------|-------------------|---------------------------|-------------------------------|----------------|----------------------|---------------------------------------|-----------------------|
| FloatingPoint Performance (Tflops) | DisplayPort ² | Maximum Active Displays | Maximum Resolution Support @ 60 Hz | FSAA (Maximum) | Dimensions (mm) | Mosaic Technology | Maximum Power Consumption | AV1 Encode and Decode Engines | Vulkan Support | GPUDirect™ for Video | Graphics Synchronization ³ | NVLink Bridge support |
| ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| 126,0 | 4 | 4 | 15360x8460 | 64x | 137 x 305 | ✓ | 600W | ✓ | ✓ | ✓ | ✓ | - |
| 110,1 | 4 | 4 | 15360x8461 | 64x | 112 x 267 | ✓ | 300W | ✓ | ✓ | ✓ | ✓ | - |
| 73,69 | 4 | 4 | 15360x8462 | 64x | 112 x 267 | ✓ | 300W | ✓ | ✓ | ✓ | ✓ | - |
| 54,94 | 4 | 4 | 15360x8463 | 64x | 112 x 267 | ✓ | 200W | ✓ | ✓ | ✓ | ✓ | - |
| 46,90 | 4 | 4 | 15360x8464 | 64x | 112 x 241 | ✓ | 140W | ✓ | ✓ | ✓ | ✓ | - |
| 33,73 | 4 | 4 | 15360x8464 | 64x | 69 x170 | ✓ | 70W | ✓ | ✓ | ✓ | ✓ | - |
| 21,1 | 4 | 4 | 15360x8464 | 64x | 69 x170 | ✓ | 70W | ✓ | ✓ | ✓ | - | - |
| 9,7 DP 19,5 SP | - | - | - | - | 112 x 267 | - | 240W | - | ✓ | ✓ | - | ✓ |
| 91,1 SP | 4 | 4 | 7680x4320 | 64x | 112 x 267 | ✓ | 300W | ✓ | ✓ | ✓ | ✓ | - |
| 65,3 SP | 4 | 4 | 7680x4320 | 64x | 112 x 267 | ✓ | 250W | ✓ | ✓ | ✓ | ✓ | - |
| 39,9 SP | 4 | 4 | 7680x4320 | 64x | 112 x 267 | ✓ | 210W | ✓ | ✓ | ✓ | ✓ | - |
| 26,7 SP | 4 | 4 | 7680x4320 | 64x | 112 x 241 | ✓ | 130W | ✓ | ✓ | ✓ | ✓ | - |
| 19,2 SP | 4 | 4 | 7680x4320 | 64x | 69 x 170 | ✓ | 70W | ✓ | ✓ | ✓ | ✓ | - |
| 12 SP | 4 | 4 | 7680x4320 | 64x | 69 x 170 | ✓ | 70W | ✓ | ✓ | ✓ | - | - |
| 9 SP | 4 | 4 | 7680x4320 | 64x | 69 x 170 | ✓ | 50W | ✓ | ✓ | ✓ | - | - |
| 6,7 SP | 4 | 4 | 7680x4320 | 64x | 69 x 164 | ✓ | 50W | ✓ | ✓ | ✓ | - | - |
| 2,7 SP | 4 | 4 | 7680x4320 | 64x | 69 x 164 | ✓ | 50W | ✓ | ✓ | ✓ | - | - |
| 126,0 | 4 | 4 | 15360x8460 | 64x | 137x305 | ✓ | 600W | ✓ | ✓ | ✓ | ✓ | - |
| 34 DP 67 SP | - | - | - | - | 112 x 267 | - | 600W | - | - | - | - | ✓ |
| 26 DP 51 SP | - | - | - | - | 112 x 267 | - | 400W | - | - | - | - | ✓ |
| 91,6 SP | 4 | 4 | 7680x4320 | 64x | 112 x 267 | ✓ | 350W | ✓ | ✓ | ✓ | ✓ | - |
| 90,5 SP | 4 | 4 | 7680x4320 | 64x | 112 x 267 | ✓ | 300W | ✓ | ✓ | ✓ | ✓ | - |
| 4,5 SP x4 | - | - | - | - | 112 x 267 | - | 250W | - | - | - | - | - |
| 31,2 SP | - | - | - | - | 112 x 267 | - | 150W | - | - | - | - | - |
| 30,3 SP | - | - | - | - | 69 x 170 | - | 70W | - | - | - | - | - |
| 4,5 SP x4 | - | - | - | - | 69 x 170 | - | 40-60W | - | - | - | - | - |

FOR MORE INFORMATION ON NVIDIA WORKSTATION PRODUCTS:
Visit: [HTTPS://WWW.NVIDIA.COM/EN-US/PRODUCTS/WORKSTATIONS/](https://www.nvidia.com/en-us/products/workstations/) & [WWW.PNY.EU](https://www.pny.eu)

FIND THE RIGHT NVIDIA GRAPHICS SOLUTION ON THE PNY ONLINE CONFIGURATOR



NVIDIA for the Data Center

BY PNY

| HIGH-PERFORMANCE COMPUTING | | HIGHLIGHTS | IDEAL FOR |
|---|--|---|--|
|  | NVIDIA H200 NVL TCSH200NVLPCIE-PB | FP64 34 TFLOPS FP64 Tensor Core 67 TFLOPS MIG Instance GPU NVLink 600 GB/s | HPC Deep Learning, Machine Learning, Training, Data Analytics |
|  | NVIDIA H100 NVL TCSH100NVLPCIE-PB | FP64 31 TFLOPS FP64 Tensor Core 62 TFLOPS MIG Instance GPU NVLink 600 GB/s | HPC, Deep Learning, Machine Learning, Training, Data Analytics |
| PROFESSIONAL VIRTUALIZATION | | HIGHLIGHTS | IDEAL FOR |
|  | NVIDIA RTX PRO™ 6000 Server Edition TCSRTXPRO6000SE-PB | FP32 126 TFLOPS 4x DP 2.1b | HPC Rendering, Deep Learning, Machine Learning, Training, Inferencing Virtual Desktop Integration |
|  | NVIDIA A10 TCSA10M-PB | FP32 31.2 TFLOPS Single Slot Card | HPC Rendering, Deep Learning, Machine Learning, Training, Inferencing Virtual Desktop Integration |
| VIRTUAL DESKTOP INTEGRATION - INFERENCING | | HIGHLIGHTS | IDEAL FOR |
|  | NVIDIA L4 TCSL4PCIE-PB | FP32 30.3 TFLOPS INT 8 485 TOPS Max. Power 72W Low Profile Form Factor | HPC, Inferencing Virtual Desktop Integration Designer / Engineer / Power User |
|  | NVIDIA A2 TCSA2MATX-PB | FP32 4.51 TFLOPS INT 4 144 TOPS Max. Power 60W Low Profile Form Factor | Inferencing Virtual Desktop Integration Designer / Engineer / Power User |
| VIRTUAL DESKTOP INTEGRATION | | HIGHLIGHTS | IDEAL FOR |
|  | NVIDIA A16 TCSA16M-PB | 4x GPU 64 GB Memory (16 GB x4) Density Optimized virtualization | Virtual Desktop Integration Office Workers |

NVIDIA Professional Graphics Cards

BY PNY

| ULTRA HIGH-END | | PACKAGE CONTENT | IDEAL FOR |
|---|---|--|---|
|  | NVIDIA RTX™ PRO 6000 Workstation Edition VCNRTXPRO6000-PB | 1 x Quick Start Guide 1 x Dual 8-pin to CEM5 16-pin | Artificial Intelligence Animation - Visualization Broadcast - Video Editing Oil & Gas Medical Imaging |
|  | NVIDIA RTX™ PRO 6000 Max-Q Workstation Edition VCNRTXPRO6000MQ-PB | 1 x Quick Start Guide 1 x Dual 8-pin to CEM5 16-pin | Artificial Intelligence Animation - Visualization Broadcast - Video Editing Oil & Gas Medical Imaging |
|  | NVIDIA A800 VCNA800-PB | 1 x Quick Start Guide 1 x 8-pin CPU to CEM5 16-pin 1 x Dual 8-pin to CEM5 16-pin | Deep Learning, Machine Learning, Training, Inferencing, Data Analytics |
| HIGH-END | | PACKAGE CONTENT | IDEAL FOR |
|  | NVIDIA RTX™ PRO 5000 VCNRTXPRO5000-PB | 1 x Quick Start Guide 1 x Dual 8-pin to CEM5 16-pin | Animation - Visualization Broadcast - Video Editing Design Manufacturing – large models Medical Imaging |
|  | NVIDIA RTX™ PRO 4500 VCNRTXPRO4500-PB | 1 x Quick Start Guide 1 x Dual 8-pin to CEM5 16-pin | Animation - Visualization Broadcast - Video Editing Design Manufacturing – large models Medical Imaging |
|  | NVIDIA RTX™ PRO 4000 VCNRTXPRO4000-PB | 1 x Quick Start Guide 1 x 8-pin to CEM5 16-pin | Animation - Visualization Broadcast - Video Editing Design Manufacturing – large models Medical Imaging |
| MID-RANGE | | PACKAGE CONTENT | IDEAL FOR |
|  | NVIDIA RTX™ PRO 4000 SFF VCNRTX4000ADALP-PB | 1 x Quick Start Guide 1 x unattached LP Bracket | Animation / Video Editing Manufacturing – large models Medical Imaging |
|  | NVIDIA RTX™ PRO 2000 VCNRTX2000ADA-PB | 1 x Quick Start Guide 1 x unattached LP Bracket | Animation / Video Editing Manufacturing – med/large models Medical Imaging |
|  | NVIDIA RTX™ A1000 VCNRTXA1000-PB | 4 x mDP to DP adapter 1 x Quick Start Guide 1 x unattached LP Bracket | Animation Video Editing Manufacturing – medium models |
| ENTRY-LEVEL | | PACKAGE CONTENT | IDEAL FOR |
|  | NVIDIA RTX™ A400 VCNRTXA400-PB | 4 x mDP to DP adapter 1 x Quick Start Guide 1 x unattached LP Bracket | Manufacturing – volume CAD |
| DEDICATED TO LOW POWER SYSTEMS | | PACKAGE CONTENT | POWER LIMIT |
|  | NVIDIA RTX™ 4000 SFF Ada Generation VCNRTX4000ADALP-PL | 1 x unattached LP Bracket | Power Limit 50W |
|  | NVIDIA RTX™ 2000 Ada Generation VCNRTX2000ADA-PL | 1 x unattached LP Bracket | Power Limit 50W |
|  | NVIDIA RTX™ A1000 VCNRTXA1000-PL | 1 x unattached LP Bracket | Power Limit 35W |
|  | NVIDIA RTX™ A400 VCNRTXA400-PL | 1 x unattached LP Bracket | Power Limit 30W |

BENEFITS OF PROFESSIONAL GRAPHICS

NVIDIA Blackwell Architecture

BREAKING BARRIERS IN ACCELERATED COMPUTING AND GENERATIVE AI

Delivered application performance is more than raw flops. Computational professionals depend on mission critical applications to accelerate discoveries and insights at scale. It starts with the world's fastest accelerators and includes a reliable infrastructure, the ability to monitor and manage that infrastructure, and the ability to quickly move data where it is needed. The NVIDIA Accelerated Computing Platform provides all of these to deliver unprecedented performance in scientific, analytics, engineering, consumer, and enterprise applications.

Differentiated Engineering:

- Low Operating Voltage for Long Term. Reliability.
- Large Guard-Band for Guaranteed Quality.
- Error Correction Code (ECC) for Data Integrity.

Extensive Qualification & Testing:

- Long Burn-in-Testing.
- Zero Error Tolerance at Aggressive Clocks.
- Result: 5% of GPUs screened out.
- Guaranteed Quality.

Enterprise Tools:

- Simplify Data Center Operations.
- Manage and Monitor GPUs.
- System Diagnostics, GPU recovery, RMA diagnostics.
- GPU Cluster Management.



Performance:

- Application specific feature development & tuning.
- Driver optimizations to maximize GPU features.
- Unique features to support pro workflows.
- IT tools for easy deployment & management.

Reliability:

- Application specific testing by NVIDIA.
- 100+ professional application certifications by ISVs.
- Unique rock-solid driver with deterministic release schedule.
- Designed and built by NVIDIA to a single specification for 24/7 reliability and stability.

Support:

- Deep workflow experience across vertical industries.
- Long-Life Cycle availability and support.
- Bulk availability for large Enterprise.
- Global technical pre-sales and post-sales support.

NVIDIA RTX™ Platform

MOST POWERFUL VISUAL COMPUTING

The term “professional workstation” implies many things to many people. However, it usually translates to expectations of high quality, excellent reliability, responsive support, and high performance. The NVIDIA professional series is built to provide this high level of quality and reliability.

NVIDIA RTX™ Application Value-add:

- Solidworks Realview.
- 3ds Max Shade.
- Solidworks Visualize.
- PTC Creo OIT.
- Solidworks Ambient Occlusion.
- Catia Live Rendering.

NVIDIA RTX™ Unique Features:

- Large memory with ECC.
- NVIDIA RTX Desktop Manager.
- GPU direct for Video.
- Higher Level of FSAA (64x).
- Multi-GPU.
- Enterprise IT Tools.
- Iray Server Streaming.
- Quad Buffered Stereo.
- Mosaic.
- Warp & Blend.
- Bezel Correction & Overlap.
- Genlock & Framelock.

WHICH PNY PROFESSIONAL BOARD TO USE FOR YOUR APPLICATION?

Should I use a Professional Graphics Card?

PNY offers a suite of professional solutions that enable designers, manufacturers, scientists and researchers to do their work smarter, faster, with greater reliability and with energy efficiency. If you answer one or more of the below questions with yes we recommend to use professional NVIDIA cards.

Does your work involve creating, rendering, or visualizing data and images?

NVIDIA's professional cards are fully compatible, tested & certified on all your professional applications for more performance & reliability.

Is hardware reliability important?

Time spent troubleshooting is lost time for your creativity. NVIDIA professional graphics cards are designed for 24/7 operation with pro support.

Do you prefer long availability for your hardware?

Professional NVIDIA cards are usually available for 3 or more years while gaming cards often have a lifetime below 6 months.

Which NVIDIA for my application?

| APPLICATION | | | | | |
|---|--|--|--|---|--|
| Microsoft Office | Siemens NX | | | | |
| Trimble SketchUp | PTC Creo | | | | |
| Adobe Illustrator CC Photoshop CC | After Effects CC Premiere Pro CC | | | | |
| Autodesk AutoCAD, Inventor, Revit | | Maya, 3ds MAX | | | |
| | Dassault Systems Solidworks | | | | |
| | CATIA | 3DEXCITE CATIA Live Rendering | Solidworks Visualize ABAQUS, SIMULA | | |
| | The Foundry Mari, Nuke | | | | |
| | | | Ansys Mechanical | | |
| | | Schlumberger Petrel | | | |
| Small/simple CAD models, Video, entry PLM <ul style="list-style-type: none">• ISV Certs• Higher performance vs. IGP, gfx GPU• NVIDIA Mosaic | Medium size/complexity CAD models, basic DCC, Medical Imaging, PLM <ul style="list-style-type: none">• +2GB memory• Approx. 118% faster | Large/complex CAD models, Advanced DCC, Medical Imaging <ul style="list-style-type: none">• +4GB memory• Approx. 37% faster• NVIDIA Mosaic with sync | Large/complex CAD models, Seismic exploration, complex DCC effects <ul style="list-style-type: none">• +8GB memory• Approx. 65% faster• Error Correcting Code (ECC) Memory | Largest CAD models, CAE, Photo-realistic rendering, Seismic exploration, GPGPU compute <ul style="list-style-type: none">• +8GB memory• Approx. 61% faster | Most demanding rendering and GPGPU compute applications <ul style="list-style-type: none">• Multi-GPU solution• Highest performance |
| RTX A400 | RTX PRO 2000 RTX A1000 | RTX PRO 4000 RTX PRO 4000 SFF | RTX PRO 5000 RTX PRO 4500 | RTX PRO 6000 RTX PRO 6000 Max-Q A800 | 2x RTX PRO 6000 2x RTX PRO 6000 Max-Q 2x A800 |
| ENTRY | MID-RANGE | HIGH-END | | ULTRA HIGH-END | |



FOR DISCOVERING ALL OUR RECOMMENDATIONS:
Please visit our **PNY ONLINE CONFIGURATOR** on:
HTTPS://PNY.QUADRO-SELECTOR.COM



PNY maximizes your NVIDIA Graphics Cards potential with an exceptional support.

COMPATIBILITY & SUPPORT FOR ALL WORKSTATION BRANDS

PNY Warranty Extension Service

- ⦿ To better protect your investment, PNY offers a comprehensive extended 5-Year warranty to your NVIDIA® card from PNY®.

Main Features

- ⦿ Additional 2-Year Extended Warranty Service for your NVIDIA® card by PNY®.
- ⦿ Advanced Product Replacement (for European Union countries, Norway and Switzerland).

PNY ADVANTAGE

- ⦿ 3-Year standard warranty
- ⦿ Pre-sales support and system configuration assistance
- ⦿ Dedicated Field Application Engineers
- ⦿ Direct access to technical support hotlines
- ⦿ Support escalation for prompt issue resolution
- ⦿ Certified software support and bug reporting
- ⦿ Published product support and training materials
- ⦿ Advanced replacement options for mission-critical deployments
- ⦿ Long product life cycles and availability
- ⦿ Loyalty partner channel programs

PNY Technologies Europe

Zac du Phare
9 rue Joseph Cugnot - BP 40181
33708 Mérignac Cedex, France
Tel: +33 (0)5 40 240 240

CONTACT US

SALES@PNY.EU

PNY Technologies QUADRO® GmbH

Schumanstraße 18a
52146 Würselen
Germany
Tel: +49 (0)240 540 848-0

CONTACT US

VERTRIEB@PNY.EU

PNY Technologies LTD

400 Capability Green
Luton
LU1 3AE
United Kingdom

CONTACT US

QUADROUK@PNY.EU