Accelerate your creativity and expand your innovation with NVIDIA® Quadro®—the world’s most powerful workstation graphics. Support for multiple 4K displays, large memory capacity, advanced photorealistic rendering, and flexible multi-GPU configurations lets you tackle the most challenging visual computing tasks effortlessly. Whether you’re developing revolutionary products or telling spectacularly vivid visual stories, Quadro gives you the performance to do it brilliantly.

**NVIDIA® Quadro® 3D Workstation Professional Graphics Solutions**

Designed and built specifically for artists, designers, and engineers, NVIDIA Quadro GPUs power more than 100 professional applications across a broad range of industries. Professionals trust them to enable their best work using applications such as Adobe® Creative Cloud, Avid Media Composer, Autodesk Suites, Dassault Systemes, CATIA and SOLIDWORKS, Siemens NX, PTC Creo, and many more.

**NVIDIA® Tesla® Co-Processors**

NVIDIA Tesla GPU parallel processors are tailored to provide high-performance NVIDIA CUDA® acceleration for your workflow. Designed for professional systems and demanding professional applications, Tesla GPUs perform the complex calculations required for CAE/CFD calculations, seismic processing, ray-traced rendering, compositing, image processing, physics, and effects many times faster than a CPU.

**NVIDIA® Multi-GPU Technology**

NVIDIA® Multi-GPU Technology leverages combinations of Quadro and Tesla GPUs to intelligently scale the performance of your application and dramatically speed up your workflow. This delivers significant business impact across industries such as Manufacturing, Media and Entertainment, and Energy Exploration.

**NVIDIA® NVS™ Commercial Graphics Solutions**

NVIDIA NVS graphics boards are the standard for multi-display commercial graphics and are built for seamless enterprise deployment. They’re the graphics solutions of choice for financial institutions, emergency call centers, digital signage systems, and other mission-critical environments.
## NVIDIA PROFESSIONAL GRAPHICS SOLUTIONS

### GPU SPECIFICATIONS

| GPU | CUDA® Processing Cores | GPU Memory | Memory Bandwidth | Floating-Point Performance (Single-Precision Peak) | Error Correcting Code (ECC) Memory | Dual-Link™ DVI | DisplayPort 1.1 | DisplayPort 1.2 | HDMI® Via Adapters | Maximum Active Displays | FSHA (Maximum) | NVIDIA® SLI™-Enabled | NVIDIA® TXA™-Enabled | NVIDIA®® SLP | NVIDIA® Mosaic Technology | NVIDIA®® Direct™ for Video | Graphics Sync™ | NVIDIA®® Mosaic™ Direct™ | NVIDIA®® Multi-GPU Technology-Enabled |
|-----|------------------------|------------|------------------|---------------------------------------------------|-----------------------------------|----------------|-----------------|-----------------|-----------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Quadro K5200 | 2,304 | 8 GB | 192 Gbps | 3.074 | 2 | 2 | 4 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K4200 | 1,344 | 4 GB | 173 Gbps | 2.072 | 1 | 2 | 3 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K2200 | 640 | 4 GB | 80 Gbps | 1 | 2 | 3 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K4000 | 384 | 2 GB | 29 Gbps | 1 | 2 | 3 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K4200 | 192 | 1 GB | 29 Gbps | 1 | 2 | 3 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K6000 | 2,880 | 12 GB | 288 Gbps | 5,196 | 2 | 2 | 4 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K5000 | 1,536 | 4 GB | 173 Gbps | 2,150 | 2 | 2 | 4 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K5000 for Mac | 1,536 | 4 GB | 173 Gbps | 2,150 | 2 | 2 | 4 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K4000 | 768 | 3 GB | 134 Gbps | 1,246 | 1 | 2 | 3 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K3000 | 384 | 2 GB | 64 Gbps | 1 | 2 | 3 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K2000 | 384 | 2 GB | 64 Gbps | 1 | 2 | 3 | 4 | 64x | • | • | • | • | • | • | • | • |
| Quadro K600 | 192 | 1 GB | 29 Gbps | 1 | 1 | 2 | 2 | 64x | • | • | • | • | • | • | • | • |
| Quadro 410 | 192 | 512 MB | 14 Gbps | 1 | 1 | 2 | 2 | 32x | • | • | • | • | • | • | • | • |

### OPTIONS

- NEW
- NEW

### Quadro for Desktop Workstations

**Quadro K5200**
- 2,304 CUDA® Processing Cores
- 8 GB GPU Memory
- 192 Gbps Memory Bandwidth
- Floating-Point Performance (Single-Precision Peak): 3.074 Gflops
- Error Correcting Code (ECC) Memory: 2 Gbps
- Dual-Link™ DVI: 2
- DisplayPort 1.1: 2
- DisplayPort 1.2: 4
- HDMI® Via Adapters: 4
- Maximum Active Displays: 64x
- FSHA (Maximum): 4x
- NVIDIA® SLI™-Enabled: •
- NVIDIA® TXA™-Enabled: •
- NVIDIA®® SLP: •
- NVIDIA® Mosaic Technology: •
- NVIDIA®® Direct™ for Video: •
- Graphics Sync™: •
- NVIDIA®® Mosaic™ Direct™: •
- NVIDIA®® Multi-GPU Technology-Enabled: •

### Teslas for Desktop Workstations (Co-Processors)

**Tesla K40**
- 2,880 CUDA® Processing Cores
- 12 GB GPU Memory
- 288 Gbps Memory Bandwidth
- Floating-Point Performance (Single-Precision Peak): 5,040 Gflops
- Error Correcting Code (ECC) Memory: 2 Gbps
- Dual-Link™ DVI: 2
- DisplayPort 1.1: 2
- DisplayPort 1.2: 4
- HDMI® Via Adapters: 4
- Maximum Active Displays: 64x
- FSHA (Maximum): 4x
- NVIDIA® SLI™-Enabled: •
- NVIDIA® TXA™-Enabled: •
- NVIDIA®® SLP: •
- NVIDIA® Mosaic Technology: •
- NVIDIA®® Direct™ for Video: •
- Graphics Sync™: •
- NVIDIA®® Mosaic™ Direct™: •
- NVIDIA®® Multi-GPU Technology-Enabled: •

### Quadro for Mobile and All-in-One Workstations

**Quadro K5100M**
- 1,536 CUDA® Processing Cores
- 8 GB GPU Memory
- 115 Gbps Memory Bandwidth
- Floating-Point Performance (Single-Precision Peak): 2,350 Gflops
- Error Correcting Code (ECC) Memory: 1 Gbps
- Dual-Link™ DVI: 2
- DisplayPort 1.1: 2
- DisplayPort 1.2: 4
- HDMI® Via Adapters: 4
- Maximum Active Displays: 64x
- FSHA (Maximum): 4x
- NVIDIA® SLI™-Enabled: •
- NVIDIA® TXA™-Enabled: •
- NVIDIA®® SLP: •
- NVIDIA® Mosaic Technology: •
- NVIDIA®® Direct™ for Video: •
- Graphics Sync™: •
- NVIDIA®® Mosaic™ Direct™: •
- NVIDIA®® Multi-GPU Technology-Enabled: •

### NVS for Desktop Workstations

**NVS 510**
- 192 GB GPU Memory
- 29 Gbps Memory Bandwidth
- Floating-Point Performance (Single-Precision Peak): 4 Gflops
- Error Correcting Code (ECC) Memory: 2 Gbps
- Dual-Link™ DVI: 2
- DisplayPort 1.1: 2
- DisplayPort 1.2: 4
- HDMI® Via Adapters: 4
- Maximum Active Displays: 64x
- FSHA (Maximum): 4x
- NVIDIA® SLI™-Enabled: •
- NVIDIA® TXA™-Enabled: •
- NVIDIA®® SLP: •
- NVIDIA® Mosaic Technology: •
- NVIDIA®® Direct™ for Video: •
- Graphics Sync™: •
- NVIDIA®® Mosaic™ Direct™: •
- NVIDIA®® Multi-GPU Technology-Enabled: •

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1. CUDA® parallel processing cores cannot be compared between GPU generations due to several important architectural differences that exist between streaming multiprocessor designs.

2. Maximum display resolution: 3200 Pixel x Pixel 3200 (up to 1920 (up to 1920 x 1200).)

3. Adaptors available for DVI-SL, DVI-DL, HDMI, and VGA. NVS 315 offers DVI 1 through the use of DMS-59 to DP1.2 cable.

4. Quadro K2000, K4000, K2200, K2000, and K1000 are equipped with 3 on-board display connectors, while Quadro K4200 and K2000 have 2 on-board display connectors with the option to connect a third and/or fourth display using DisplayPort 1.2 multi-streaming capabilities. 4. DisplayPort requires a supported DisplayPort 1.2 Multi-Stream Capable Hub or displays.

5. Quadro K-series GPUs are only compatible with NVIDIA Quadro Sync. Other GPUs listed are compatible only with Quadro D-Sync.

6. On Mac OS X, DisplayPort 1.2 Multi-Stream Feature is currently not supported. Also available for All-in-One workstations.

7. Quadro K-series GPUs are only compatible with NVIDIA Quadro Sync. Other GPUs listed are compatible only with Tesla C2075.

8. Ensures data integrity and reliability by eliminating soft errors on both GPU cache and on-board DRAM.

9. Ensures data integrity and reliability by eliminating soft errors on DRAM only.

10. On Mac OS X, DisplayPort 1.2 multi-streaming feature is currently not supported. Also available for All-in-One workstations.

11. The Single Precision theoretical peak performance for Tesla K40 is calculated for the highest GPU Boost level of 879 MHz. For more information on NVIDIA Workstation products, visit www.nvidia.com/tesla.