NVIDIA professional GPUs deliver unprecedented performance and innovative capabilities to let you achieve your greatest creative aspirations. Whether you’re animating digital characters, rendering a virtual set, creating groundbreaking effects, or telling spectacularly vivid visual stories in virtual reality, NVIDIA professional solutions let you do it better and faster.

**NVIDIA® QUADRO® PROFESSIONAL GRAPHICS**
Designed and built specifically for professional workstations, NVIDIA Quadro GPUs power more than 100 digital content creation applications and plug-ins. Professionals trust Quadro to deliver the best possible experience with applications such as Adobe Creative Cloud, Avid Media Composer, Autodesk 3ds Max and Maya, The Foundry NUKE, and many more.

**NVIDIA TESLA® GPU ACCELERATORS**
NVIDIA Tesla data center GPUs are tailored to provide high-performance NVIDIA CUDA® acceleration for your workflow. Designed for professional systems and demanding professional applications, Tesla data center GPUs perform the complex calculations required for 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. Multi-GPU applications such as Adobe Premiere Pro, Autodesk 3ds Max with NVIDIA Iray rendering, Blackmagic Design DaVinci Resolve, and Chaos V-Ray RT offer increased performance by leveraging additional GPUs.

**NVIDIA GRID™**
NVIDIA GRID technology allows artists working in a remote or virtualized environment on lightweight Mac, Windows, or Linux devices the same high-end GPU-accelerated experience offered by a dedicated professional workstation. Artists can work on graphics-rich applications such as Vizrt VizArtist, Adobe After Effects, and Autodesk Maya anywhere, from any device. NVIDIA GRID technology is integrated into servers from Cisco, Dell, HPE, Lenovo, and other systems providers.

**NVIDIA QUADRO VISUAL COMPUTING APPLIANCE (VCA)**
Accelerate design and VFX production workflows with the NVIDIA® Quadro® VCA—a network-attached appliance that harnesses the power of the highest-performing NVIDIA GPUs. It’s accessible to anyone on the network, is easily integrated into design workflows, and can linearly scale to deliver noiseless, interactive global illumination.
### GPU Specifications

<table>
<thead>
<tr>
<th>Quadro &amp; Tesla for Workstations</th>
<th>Performance</th>
<th>Display Technology</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quadro P4000 NEW</strong></td>
<td>3,840</td>
<td>24 GB</td>
<td></td>
</tr>
<tr>
<td><strong>Quadro M6000 24GB</strong></td>
<td>3,072</td>
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<tr>
<td><strong>Quadro M4000</strong></td>
<td>2,880</td>
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<td><strong>Quadro P5000 NEW</strong></td>
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<td><strong>Quadro M5000</strong></td>
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<tr>
<td><strong>Quadro M4000</strong></td>
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<tr>
<td><strong>Quadro M2000</strong></td>
<td>768</td>
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<tr>
<td><strong>Quadro K2200</strong></td>
<td>640</td>
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<tr>
<td><strong>Quadro K1200</strong></td>
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<tr>
<td><strong>Quadro K620</strong></td>
<td>384</td>
<td>2 GB</td>
<td></td>
</tr>
<tr>
<td><strong>Quadro K420</strong></td>
<td>192</td>
<td>1 GB / 2 GB</td>
<td></td>
</tr>
</tbody>
</table>

### Display Technology

- **FX/TX**
- **Dual-Link DVI**
- **HDMI Video Adaptors**
- **Maximum Active Displays**

### Options

- **Server Co-Processors**
- **Quadro for Mobile and All-in-One Workstations**
- **Quadro Visual Computing Appliance (VCA)**

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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.
3. Adaptors available for DVI-SL, DVI-DL, HDMI, and VGA.
4. Quadro K2000, K4000, and K6000 are equipped with 3 on-board display connectors, while K20, K40, and K60 have 2 on-board display connectors with the option to connect a third and/or fourth display using DisplayPort 1.2's new multi-streaming capabilities. 6 Displays require 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 S-Sync v2.
6. This feature requires implementation by software applications and is not a stand-alone utility. Please contact quadrohelp@nvidia.com for details on availability.
7. Quadro K-series GPUs are only compatible with Tesla K40 and K20.
8. Ensures data integrity and reliability by eliminating soft errors on DRAM only.
9. Ensures data integrity and reliability by eliminating soft errors on both GPU cache and on-board DRAM.
10. Available in low-profile (half height) form factor only.
11. The Single Precision theoretical peak performance for Tesla K40 is calculated for the highest GPU Boost level of 875MHz. For more information on Tesla K40 and GPU Boost visit, www.nvidia.com/tesla
12. Display support will vary by OEM; please see OEM Mobile Workstation platform specifications for details.

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