



A QUANTUM LEAP IN VISUAL COMPUTING

NVIDIA Quadro®

NVIDIA Quadro | LINECARD | JULY07

NVIDIA Quadro® FX Graphics Boards and Visual Computing Systems Feature:

- Unified architecture¹
- Full 128-bit floating point precision pipeline
- 12-bit subpixel precision
- Support for Shader Model 3.0/4.0¹
- Support for OpenGL 2.1
- Support for DirectX9/10¹

A Quantum Leap in Visual Computing

The **NVIDIA Quadro Plex** visual computing system (VCS) is designed to interface with industry-standard workstations and servers to deliver advanced visual computing scalability and remote graphics serving for the most demanding professional applications.

Integrated Graphics-to-Video Solution

The **NVIDIA Quadro SDI** solutions² deliver uncompressed 8-, 10-, or 12¹-bit SDI enabling a direct connection to broadcast monitors, switchers, tape decks, or SDI projectors to fully integrated graphics-to-video out.

Revolutionizing Advanced Visualization

The **NVIDIA Quadro G-Sync**² delivers frame and genlock functionality to unprecedented levels of industrial realism, visualization, and collaborative capabilities.

| | | Model | DISPLAY | | | | PERFORMANCE | | | IMAGE QUALITY | FEATURES | | | OPTIONS | | |
|----------------|--|--------------------------------|---------------|----------------------|---------------------|---------------------------------|---|-------------------|------------------|---|----------------|--------------|----------------------|----------------------------|-------------|----------------|
| | | | Dual-Link DVI | # of Digital Outputs | # of Analog Outputs | Analog ³ and Digital | Maximum Display Resolution Digital @ 60Hz | Memory Size Total | Memory Bandwidth | Relative Performance Score ⁴ | FSAA (maximum) | Shader Model | NVIDIA® SLI™ Support | C. Programming Environment | SDI Version | G-Sync Version |
| Quadro Plex | VISUAL COMPUTING SYSTEM | Model S4 (4 x Quadro FX 5600) | N/A | N/A | N/A | N/A | N/A | 6GB | 76.8 GB/sec | | 64x | 4.0 | ✓ | ✓ | N/A | N/A |
| | | Model IV (2 x Quadro FX 5600) | 4 | 2 | 2 | ✓ | 2560 x 1600 | 3GB | 76.8 GB/sec | | 64x | 4.0 | ✓ | ✓ | | II |
| | | Model III (2 x Quadro FX 5500) | 8 | 2 | 2 | ✓ | 2560 x 1600 | 2GB | 33.6 GB/sec | | 32x | 3.0 | ✓ | | I | |
| | | Model II (4 x Quadro FX 4500) | 2 | 2 | 2 | ✓ | 2560 x 1600 | 2GB | 33.6 GB/sec | | 64x | 3.0 | ✓ | | | I |
| | | Model I (2 x Quadro FX 5500) | 4 | 2 | 2 | ✓ | 2560 x 1600 | 2GB | 33.6 GB/sec | | 32x | 3.0 | ✓ | | | I |
| Quadro FX | ULTRA-HIGH END | Quadro FX 5600 | 2 | 2 | 2 | ✓ | 2560 x 1600 | 1.5GB | 76.8 GB/sec | 46.21 | 32x | 4.0 | ✓ | ✓ | II | II |
| | | Quadro FX 5500 | 2 | 2 | 2 | ✓ | 2560 x 1600 | 1GB | 33.6 GB/sec | 39.01 | 16x | 3.0 | ✓ | | I | I |
| | | Quadro FX 4600 | 2 | 2 | 2 | ✓ | 2560 x 1600 | 768MB | 67.2 GB/sec | 42.89 | 32x | 4.0 | ✓ | ✓ | II | II |
| | | Quadro FX 4500 X2 (2 GPUs) | 4 | 4 | 4 | ✓ | 2560 x 1600 | 1GB | 33.6 GB/sec | 34.31 | 16x | 3.0 | ✓ | | | |
| | HIGH-END | Quadro FX 3500 | 2 | 2 | 2 | ✓ | 2560 x 1600 | 256MB | 42.2 GB/sec | 31.41 | 12x | 3.0 | ✓ | | | |
| | MID-RANGE | Quadro FX 3450 | 1 | 2 | 2 | ✓ | 2560 x 1600 | 256MB | 32.0 GB/sec | 26.57 | 12x | 3.0 | ✓ | | | |
| | | Quadro FX 1500 | 2 | 2 | 2 | ✓ | 2560 x 1600 | 256MB | 40.0 GB/sec | 26.9 | 8x | 3.0 | | | | |
| | ENTRY-LEVEL | Quadro FX 560 | 1 | 2 | 2 | ✓ | 2560 x 1600 | 128MB | 19.2 GB/sec | 24.49 | 8x | 3.0 | | | | |
| | | Quadro FX 550 | | 2 | 2 | ✓ | 1920 x 1200 | 128MB | 12.8 GB/sec | 15.72 | 8x | 3.0 | | | | |
| | | Quadro FX 350 | | 2 | 2 | ✓ | 1920 x 1200 | 128MB | 6.48 GB/sec | 12.62 | 8x | 3.0 | | | | |
| MOBILE | Quadro FX 3500M | | 2 | 2 | ✓ | ⁵ | 512MB | 38.4 GB/sec | ⁵ | 8x | 3.0 | | | | | |
| | Quadro FX 2500M | | 2 | 2 | ✓ | ⁵ | 512MB | 38.4 GB/sec | ⁵ | 8x | 3.0 | | | | | |
| | Quadro FX 1600M | | 2 | 2 | ✓ | ⁵ | 512MB | 25.6 GB/sec | ⁵ | 8x | 4.0 | | ✓ | | | |
| | Quadro FX 1500M | | 2 | 2 | ✓ | ⁵ | 512MB | 38.4 GB/sec | ⁵ | 8x | 3.0 | | | | | |
| | Quadro FX 570M | | 2 | 2 | ✓ | ⁵ | 256MB | 22.4 GB/sec | ⁵ | 8x | 4.0 | | ✓ | | | |
| | Quadro FX 360M | | 2 | 2 | ✓ | ⁵ | 256MB | 9.6 GB/sec | ⁵ | 4x | 4.0 | | ✓ | | | |
| Quadro FX 350M | | 2 | 2 | ✓ | ⁵ | 256MB | 6.4 GB/sec | ⁵ | 4x | 3.0 | | | | | | |
| Quadro NVS | QUAD DISPLAY | Quadro NVS 440 x16 or x1 | | 4 | 4 | ✓ | 1920 x 1200 | 256MB | 8 GB/sec | | | 3.0 | | | | |
| | DUAL DISPLAY | Quadro NVS 285 x16 or x1 | | 2 | 2 | ✓ | 1920 x 1200 | 128MB | 4.8 GB/sec | | | 3.0 | | | | |
| | | Quadro NVS 280 PCI | | 2 | 2 | ✓ | 1280 x 1024 | 64MB | 3.2 GB/sec | | | 2.0 | | | | |
| MOBILE | Quadro NVS Mobile GPUs are available in many business notebooks. For product details please visit, http://www.nvidia.com/object/quadro_nvs_notebook.html | | | | | | | | | | | | | | | |

1 Available only on Quadro FX 5600, FX 4600, Quadro Plex Model IV, and S4

2 Option available for Quadro FX 5600, 5500, 4600 graphics boards only

3 Maximum Display Resolutions: Analog VGA- 2048 x 1536 @ 60Hz

4 Relative performance score represents the geometric mean of the viewperf viewsets and is intended to provide a relative performance difference. Application scaling may vary. SPECviewperf® 9.0 for more information visit www.spec.org.

5. Mobile Workstation performance and display support will vary by OEM; please see www.spec.org for details.

Which NVIDIA GPU solution is best for my environment?



High Performance Computing (HPC) Applications



Professional Applications & Solutions



Consumer/Entertainment Applications

| PROFESSIONAL BUSINESS APPLICATIONS Display and Analytics | PROFESSIONAL 3D APPLICATIONS Design, Creation, Visualization | PROFESSIONAL INDUSTRY SOLUTIONS HD, Broadcast, Large Scale Visualization |
|--|--|--|
| QUADRO NVS The Standard for Business Graphics. | QUADRO FX The Definition of Performance. The Standard for Quality. | QUADRO PLEX, SDI & G-SYNC Architected for Industry Specific Solutions. |
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For more information on NVIDIA and NVIDIA Quadro products, visit www.nvidia.com

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