

# NVIDIA® Quadro® Professional Solutions



|                |                                | Display                            |                |                      |                     |                                 |   | Performance           |                   |                  |   | Image Quality  | Features   |            |              |                      |                               | Options                  |               |        |     |
|----------------|--------------------------------|------------------------------------|----------------|----------------------|---------------------|---------------------------------|---|-----------------------|-------------------|------------------|---|----------------|------------|------------|--------------|----------------------|-------------------------------|--------------------------|---------------|--------|-----|
| Model          |                                | Dual-Link DVI                      | DisplayPort    | # of Digital Outputs | # of Analog Outputs | Analog <sup>7</sup> and Digital | Maximum Display Resolution Digital @ 60Hz | CUDA Processing Cores | Memory Size Total | Memory Bandwidth | Relative Performance Score <sup>5</sup> | FSAA (maximum) | OpenGL 3.0 | DirectX 10 | Shader Model | NVIDIA® SLI® Support | NVIDIA® SLI® Multi OS Support | NVIDIA® CUDA™ Technology | HD SDI Output | G-Sync |     |
| Quadro Plex    | <b>VISUAL COMPUTING SYSTEM</b> | Model                              |                |                      |                     |                                 |   |                       |                   |                  |   |                |            |            |              |                      |                               |                          |               |        |     |
|                |                                | Model 2200 S4 [4 x Quadro FX 5800] | 1 <sup>8</sup> | N/A                  | 1 <sup>8</sup>      | 1 <sup>8</sup>                  | ✓   | 1280 x 1024           | 960               | 16 GB            | 102 GBps <sup>7</sup>                   | N/A            | 64x        | ✓          | ✓            | 4.0                  | ✓                             |                          | ✓             | N/A    | N/A |
|                |                                | Model 2200 D2 [2 x Quadro FX 5800] | 4              | 2                    | 6                   | 4                               | ✓   | 2560 x 1600           | 480               | 8 GB             | 102 GBps <sup>7</sup>                   | <sup>5</sup>   | 64x        | ✓          | ✓            | 4.0                  | ✓                             | ✓                        | ✓             | N/A    | ✓   |
| Quadro FX      | <b>ULTRA-HIGH END</b>          | Quadro FX 5800                     | 2              | 1                    | 3                   | 2                               | ✓   | 2560 x 1600           | 240               | 4 GB             | 102 GBps                                | N/A            | 32x        | ✓          | ✓            | 4.0                  | ✓                             | ✓                        | ✓             | ✓      | ✓   |
|                |                                | Quadro FX 5600                     | 2              |                      | 2                   | 2                               | ✓   | 2560 x 1600           | 128               | 1.5 GB           | 76.8 GBps                               | 58.81          | 32x        | ✓          | ✓            | 4.0                  | ✓                             |                          | ✓             | ✓      | ✓   |
|                | <b>HIGH-END</b>                | Quadro FX 4800                     | 1              | 2                    | 3                   | 1                               | ✓   | 2560 x 1600           | 192               | 1.5 GB           | 76.8 GBps                               | 63.62          | 32x        | ✓          | ✓            | 4.0                  | ✓                             | ✓                        | ✓             | ✓      | ✓   |
|                |                                | Quadro FX 4700 X2 [2 GPUs]         | 4              |                      | 4                   | 4                               | ✓   | 2560 x 1600           | 256               | 2 GB             | 51.2 GBps <sup>7</sup>                  | N/A            | 64x        | ✓          | ✓            | 4.0                  | ✓                             |                          | ✓             |        | ✓   |
|                |                                | Quadro FX 4600                     | 2              |                      | 2                   | 2                               | ✓   | 2560 x 1600           | 112               | 768 MB           | 67.2 GBps                               | 53.88          | 32x        | ✓          | ✓            | 4.0                  | ✓                             |                          | ✓             | ✓      | ✓   |
|                |                                | Quadro FX 3800                     | 1              | 2                    | 3                   | 1                               | ✓   | 2560 x 1600           | 192               | 1 GB             | 51.2 GBps                               | 63.14          | 32x        | ✓          | ✓            | 4.0                  | ✓                             | ✓                        | ✓             | ✓      | ✓   |
|                |                                | Quadro FX 3700                     | 2              |                      | 2                   | 2                               | ✓   | 2560 x 1600           | 112               | 512 MB           | 51.2 GBps                               | 54.72          | 32x        | ✓          | ✓            | 4.0                  | ✓                             |                          | ✓             |        |     |
|                | <b>MID-RANGE</b>               | Quadro FX 1800                     | 1              | 2                    | 3                   | 1                               | ✓   | 2560 x 1600           | 64                | 768 MB           | 38.4 GBps                               | 60.23          | 32x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 1700                     | 2              |                      | 2                   | 2                               | ✓   | 2560 x 1600           | 32                | 512 MB           | 12.8 GBps                               | 42.40          | 32x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                | <b>ENTRY-LEVEL</b>             | Quadro FX 580                      | 1              | 2                    | 3                   | 1                               | ✓   | 2560 x 1600           | 16                | 512 MB           | 25.6 GBps                               | 49.68          | 16x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 570                      | 2              |                      | 2                   | 2                               | ✓   | 2560 x 1600           | 16                | 256 MB           | 12.8 GBps                               | 33.59          | 16x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 470 <sup>4</sup>         | 1              |                      | 2                   | 2                               | ✓   | 2560 x 1600           | 16                | N/A              | 12.8 GBps                               | 30.6           | 16x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 380                      | 2              |                      | 2                   | 2                               | ✓   | 2560 x 1600           | 16                | 256 MB           | 22.4 GBps                               | 39.75          | 16x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 370                      | 1              |                      | 2                   | 2                               | ✓   | 2560 x 1600           | 16                | 256 MB           | 6.4 GBps                                | 25.62          | 16x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 370 Low Profile          |                |                      | 2                   | 2                               | ✓   | 1920 x 1200           | 8                 | 256 MB           | 8 GBps                                  | 24.51          | 16x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                | <b>MOBILE</b>                  | Quadro FX 3700M                    | <sup>4</sup>   |                      | 2                   | 2                               | ✓   | <sup>4</sup>          | 128               | 1 GB             | 51.2 GBps                               | <sup>4</sup>   | 32x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 3600M                    | <sup>4</sup>   |                      | 2                   | 2                               | ✓   | <sup>4</sup>          | 64                | 512 MB           | 51.2 GBps                               | <sup>4</sup>   | 32x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 2700M                    | <sup>4</sup>   |                      | 2                   | 2                               | ✓   | <sup>4</sup>          | 48                | 512 MB           | 51.2 GBps                               | <sup>4</sup>   | 32x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 1700M                    | <sup>4</sup>   |                      | 2                   | 2                               | ✓   | <sup>4</sup>          | 32                | 512 MB           | 25.6 GBps                               | <sup>4</sup>   | 16x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro FX 770M                     | <sup>4</sup>   |                      | 2                   | 2                               | ✓   | <sup>4</sup>          | 32                | 512 MB           | 25.6 GBps                               | <sup>4</sup>   | 16x        | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
| Quadro FX 370M |                                | <sup>4</sup>                       |                | 2                    | 2                   | ✓                               | <sup>5</sup>                              | 8                     | 256 MB            | 9.6 GBps         | <sup>4</sup>                            | 8x             | ✓          | ✓          | 4.0          |                      |                               | ✓                        |               |        |     |
|                |                                | Quadro CX                          | 1              | 2                    | 2                   | 1                               | ✓   | 2560 x 1600           | 192               | 1.5 GB           | 76.8 GBps                               | 63.62          | 32x        | ✓          | ✓            | 4.0                  | ✓                             |                          | ✓             | ✓      |     |
| Quadro NVS     | <b>QUAD DISPLAY</b>            | Quadro NVS 450                     |                | 4                    | 4                   |                                 |   | 2560 x 1600           | 16                | 512 MB           | 11.2 GBps <sup>7</sup>                  |                |            | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro NVS 420                     |                | 4                    | 4                   |                                 |   | 2560 x 1600           | 16                | 512 MB           | 11.2 GBps <sup>7</sup>                  |                |            | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                | <b>DUAL DISPLAY</b>            | Quadro NVS 295 x16 or x1           |                | 2                    | 2                   |                                 |   | 2560 x 1600           | 8                 | 256 MB           | 11.2 GBps                               |                |            | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |
|                |                                | Quadro NVS 290 x16 or x1           |                |                      | 2                   | 2                               | ✓   | 1920 x 1200           | 16                | 256 MB           | 6.4 GBps                                |                |            | ✓          | ✓            | 4.0                  |                               |                          | ✓             |        |     |

1. Stand alone option card available for Quadro FX 5800, 5600, 4800, 4700 X2, 4600, and 3800 graphics boards only (G-Sync option is not available for Quadro FX 3800).  
 2. Maximum Display Resolutions: Analog VGA- 2048 x 1536 @ 60Hz.  
 3. Relative performance score represents the geometric mean of the viewperf viewpoints and is intended to provide a relative performance difference. Application scaling may vary. SPECviewer<sup>®</sup> 10 for more information visit [www.spec.org](http://www.spec.org).  
 4. Mobile Workstation performance and display support will vary by OEM; please see [www.spec.org](http://www.spec.org) or OEM specifications for details.

5. Quadro Plex VCS and Quadro FX 4700 X2 application performance not represented in VP10 benchmark. Display support will vary by application.  
 6. NVIDIA Quadro FX 470 is a motherboard solution—not available as a discrete add-in graphics board  
 7. Per GPU memory bandwidth.  
 8. Host Interface Card provides basic console graphics.

## INDUSTRY SOLUTIONS

### 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 solutions<sup>1</sup> deliver uncompressed 8-, 10-, or 12-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<sup>1</sup> delivers frame and genlock functionality to unprecedented levels of industrial realism, visualization, and collaborative capabilities.

### NVIDIA Quadro CX

The NVIDIA Quadro CX is the accelerator for Adobe® Creative Suite® 4. Get the performance, tools, and reliability you need for a richer, faster, and smoother experience with Adobe Creative Suite 4.

# Which NVIDIA GPU solution is best for my environment?



High Performance Computing (HPC) Applications



Consumer/Entertainment Applications

## PROFESSIONAL APPLICATIONS & SOLUTIONS

### PROFESSIONAL BUSINESS APPLICATIONS

Display and Analytics

#### QUADRO NVS

The Standard for Business Graphics.

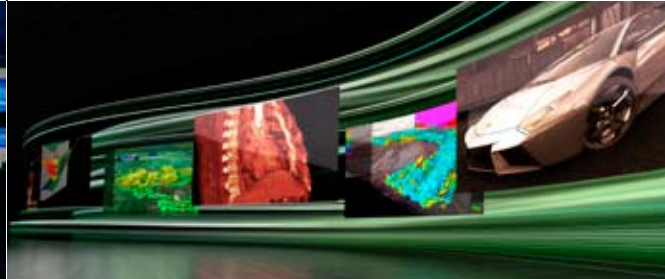


### PROFESSIONAL 3D APPLICATIONS

Design, Creation, Visualization

#### QUADRO FX

The Definition of Performance. The Standard for Quality.

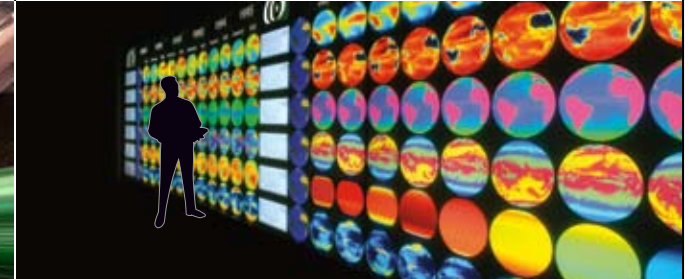


### PROFESSIONAL INDUSTRY SOLUTIONS

HD, Broadcast, Large Scale Visualization

#### QUADRO PLEX, SDI & G-SYNC

Architected for Industry Specific Solutions.



For more information about NVIDIA Quadro by PNY, visit [www.pny-europe.com](http://www.pny-europe.com)

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