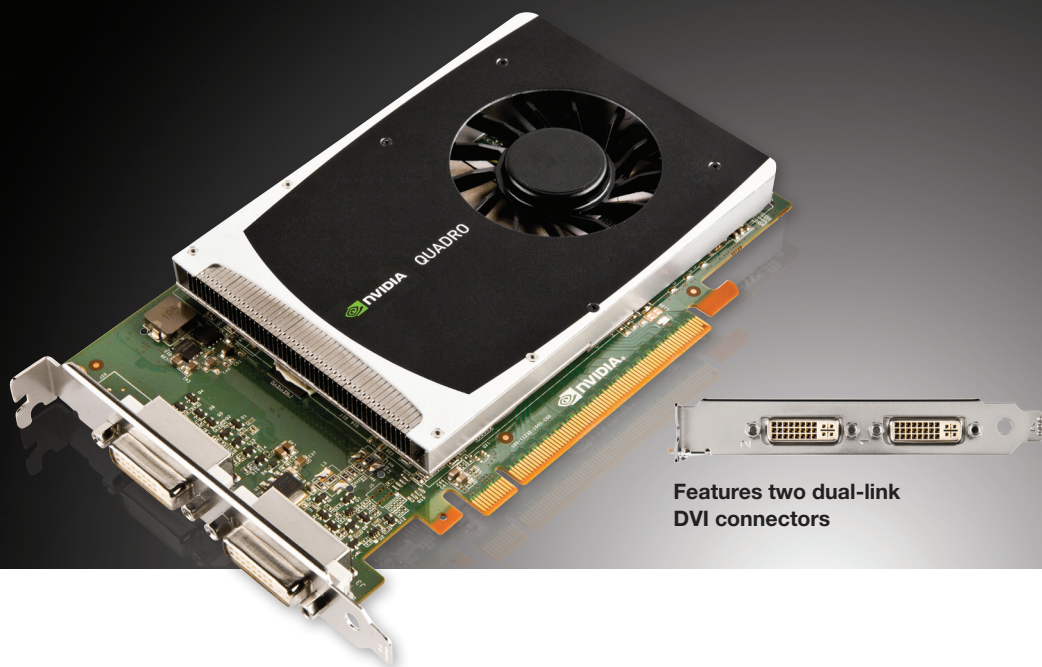




Features two dual-link DVI connectors

## NVIDIA® Quadro® 2000D by PNY Technologies®

Part #: VCQ2000D-PB

Delivering the industry's best-in-class performance across leading professional ISV applications, the NVIDIA Quadro 2000D by PNY features two dual-link DVI connectors to drive two ultra-high-resolution panels and add flexibility for multi-monitor configurations. Professional applications can take advantage of the Quadro 2000D advanced feature set, including Scalable Geometry Engine™ technology, 192 NVIDIA CUDA™ parallel processing cores and 1GB of memory for fast processing of complex models and scenes.

### Built for Diagnostic Imaging

The Fermi-based NVIDIA® Quadro® 2000D by PNY also delivers the industry's most advanced diagnostic imaging graphics solution, featuring:

- Dual DVI-DL connectivity (330MHz with DCC)
- DICOM calibration support via DCC
- Fully DICOM compliant for integration into medical imaging information systems
- 10-bit grayscale (1,024 shades of gray) support
- 12-bit grayscale (4,096 shades of gray) support
- Auto detection of grayscale monitors
- Supports displays up to 10 megapixels

### Package includes:

- NVIDIA Quadro 2000D by PNY professional graphics board
- Two DVI to VGA adapters
- Driver CD (Windows 7, Vista, XP) with PDF documentation
- Printed Quick Install Guide

### PNY Advantage:

- 3 year warranty
- Support for NVIDIA Quadro by PNY in all system brands
- Pre-and post sales assistance
- Toll-free professional technical support
- Dedicated Field Application Engineers

PNY provides unsurpassed service and commitment to its professional graphics customers. In addition, PNY delivers a complete solution including the appropriate adapters, cables, brackets, driver CD and documentation to ensure a quick and successful install.

### Product Specifications:

|                                            |                                                                                          |
|--------------------------------------------|------------------------------------------------------------------------------------------|
| GPU Memory                                 | 1 GB GDDR5                                                                               |
| Memory Interface                           | 128-bit                                                                                  |
| Memory Bandwidth                           | 41.6 GB/sec                                                                              |
| CUDA Parallel Processing Cores             | 192                                                                                      |
| Maximum Power Consumption                  | 62 W                                                                                     |
| Physical Dimensions                        | 4.376" (H) x 7.0" (L)                                                                    |
| Display Connectors                         | DVI-DL (2)                                                                               |
| Number of Displays Supported               | 2                                                                                        |
| DVI-I DL                                   | Yes                                                                                      |
| VGA                                        | Yes, via supplied adapters                                                               |
| Graphics Bus                               | PCI Express Gen 2 x16                                                                    |
| Thermal Solution                           | Active Fansink                                                                           |
| 3D Vision Pro                              | Support via USB                                                                          |
| Mosaic Mode                                | Yes (Windows 7)                                                                          |
| Maximum Digital Resolution (Single DVI-DL) | 2560 x 1600 at 60Hz                                                                      |
| Maximum Digital Resolution (Dual DVI-DL)   | 4096 x 2560 at 60Hz                                                                      |
| Graphics APIs                              | DirectX 11, OpenGL 4.0 and Shader Model 5                                                |
| Compute APIs                               | CUDA, OpenCL® and Direct Compute                                                         |
| Support for                                | Microsoft Windows 7, Vista or XP (64-bit and 32-bit) Linux® (64-bit and 32-bit) Solaris® |
| Warranty                                   | 3 Year Warranty                                                                          |
| PNY Part Number                            | VCQ2000D-PB                                                                              |



For more information visit: [www.pny.com/quadro](http://www.pny.com/quadro)



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# NVIDIA® Quadro® by PNY

Professional Solutions. Professional Support.

| QUADRO ULTRA HIGH END              |      | Part No.             | GPU Memory               | Memory Interface | CUDA Cores | Dimensions              | Power & Thermal | Display Connectors          | Max Displays | HD-SDI Versions <sup>5</sup> | G-Sync Versions <sup>6</sup> | ECC | High Performance Double Precision |
|------------------------------------|------|----------------------|--------------------------|------------------|------------|-------------------------|-----------------|-----------------------------|--------------|------------------------------|------------------------------|-----|-----------------------------------|
| Quadro 6000                        | NEW! | VCQ6000-PB           | 6GB GDDR5                | 384-bit          | 448        | FH <sup>1</sup> x 9.75" | 204W - Active   | DVI DL, DP (2) <sup>2</sup> | 2            | ✓                            | ✓                            | ✓   | ✓                                 |
| Quadro FX 5800                     |      | VCQFX5800-PCIE-PB    | 4GB GDDR3                | 512-bit          | 240        | FH x 10.5"              | 189W - Active   | DVI DL (2), DP              | 2            | ✓                            | ✓                            |     |                                   |
| Quadro 5000                        | NEW! | VCQ5000-PB           | 2.5GB GDDR5              | 320-bit          | 352        | FH x 9.75"              | 152W - Active   | DVI DL, DP (2)              | 2            | ✓                            | ✓                            | ✓   | ✓                                 |
| Quadro FX 4800                     |      | VCQFX4800-PCIE-PB    | 1.5GB GDDR3              | 384-bit          | 192        | FH x 10.5"              | 146W - Active   | DVI DL, DP (2)              | 2            | ✓                            | ✓                            |     |                                   |
| QUADRO FOR MAC                     |      |                      |                          |                  |            |                         |                 |                             |              |                              |                              |     |                                   |
| Quadro 4000 for Mac                | NEW! | VCQ4000MAC-PB        | 2GB GDDR5                | 256-bit          | 256        | FH x 9.5"               | 142W - Active   | DVI DL, DP                  | 2            |                              |                              |     | ✓                                 |
| Quadro FX 4800 for MAC             |      | VCQFX4800MACX16-PB   | 1.5GB GDDR3              | 384-bit          | 192        | FH x 10.5"              | 150W - Active   | DVI DL (2)                  | 2            |                              |                              |     |                                   |
| QUADRO HIGH END                    |      |                      |                          |                  |            |                         |                 |                             |              |                              |                              |     |                                   |
| Quadro 4000                        | NEW! | VCQ4000-PB           | 2GB GDDR5                | 256-bit          | 256        | FH x 9.5"               | 142W - Active   | DVI DL, DP (2)              | 2            | ✓                            |                              |     | ✓                                 |
| Quadro FX 3800                     |      | VCQFX3800-PCIE-PB    | 1GB GDDR3                | 256-bit          | 192        | FH x 7.8"               | 107W - Active   | DVI DL, DP (2)              | 2            | ✓                            |                              |     |                                   |
| QUADRO MID RANGE                   |      |                      |                          |                  |            |                         |                 |                             |              |                              |                              |     |                                   |
| Quadro 2000                        | NEW! | VCQ2000-PB           | 1GB GDDR5                | 128-bit          | 192        | FH x 7.0"               | 62W - Active    | DVI DL, DP (2)              | 2            |                              |                              |     |                                   |
| Quadro 2000D                       | NEW! | VCQ2000D-PB          | 1GB GDDR5                | 128-bit          | 192        | FH x 7.0"               | 62W - Active    | DVI DL (2)                  | 2            |                              |                              |     |                                   |
| Quadro FX 1800                     |      | VCQFX1800-PCIE-PB    | 768MB GDDR3              | 192-bit          | 64         | FH x 7.8"               | 59W - Active    | DVI DL, DP (2)              | 2            |                              |                              |     |                                   |
| QUADRO ENTRY LEVEL                 |      |                      |                          |                  |            |                         |                 |                             |              |                              |                              |     |                                   |
| Quadro 600                         | NEW! | VCQ600-PB            | 1GB GDDR3                | 128-bit          | 96         | LP <sup>3</sup> x 6.60" | 40W - Active    | DVI DL, DP                  | 2            |                              |                              |     |                                   |
| Quadro FX 580                      |      | VCQFX580-PCIE-PB     | 512MB GDDR3              | 128-bit          | 32         | FH x 6.60"              | 40W - Active    | DVI DL, DP (2)              | 2            |                              |                              |     |                                   |
| Quadro FX 380                      |      | VCQFX380-PCIE-PB     | 256MB GDDR3              | 128-bit          | 16         | FH x 6.60"              | 34W - Active    | DVI DL (2)                  | 2            |                              |                              |     |                                   |
| Quadro FX 380 LP                   |      | VCQFX380LP-PCIE-PB   | 512MB GDDR3              | 64-bit           | 16         | LP <sup>3</sup> x 6.60" | 28W - Active    | DVI DL, DP                  | 2            |                              |                              |     |                                   |
| Quadro FX 370 LP                   |      | VCQFX370LP-PCIE-PB   | 256MB GDDR2              | 64-bit           | 8          | LP <sup>3</sup> x 6.60" | 25W - Passive   | DMS-59                      | 2            |                              |                              |     |                                   |
| NVS DUAL MONITOR                   |      |                      |                          |                  |            |                         |                 |                             |              |                              |                              |     |                                   |
| NVIDIA NVS 300 x16 for DisplayPort |      | VCNVS300X16DP-PB     | 512MB DDR3               | 64-bit           | 16         | LP <sup>3</sup> x 5.70" | 17.5W - Passive | DMS-59                      | 2            |                              |                              |     |                                   |
| NVIDIA NVS 300 x1 for DisplayPort  |      | VCNVS300X1DP-PB      | 512MB DDR3               | 64-bit           | 16         | LP <sup>3</sup> x 5.70" | 15.1W - Passive | DMS-59                      | 2            |                              |                              |     |                                   |
| NVIDIA NVS 300 x16 for DVI and VGA |      | VCNVS300X16-PB       | 512MB DDR3               | 64-bit           | 16         | LP <sup>3</sup> x 5.70" | 17.5W - Passive | DMS-59                      | 2            |                              |                              |     |                                   |
| NVIDIA NVS 300 x1 for DVI and VGA  |      | VCNVS300X1-PB        | 512MB DDR3               | 64-bit           | 16         | LP <sup>3</sup> x 5.70" | 15.1W - Passive | DMS-59                      | 2            |                              |                              |     |                                   |
| QUADRO NVS DUAL MONITOR            |      |                      |                          |                  |            |                         |                 |                             |              |                              |                              |     |                                   |
| Quadro NVS 290 x16                 |      | VCQ290NVS-PCIEX16-PB | 256MB GDDR2              | 64-bit           | 16         | LP <sup>3</sup> x 6.60" | 21W - Passive   | DMS-59                      | 2            |                              |                              |     |                                   |
| Quadro NVS 290 x1                  |      | VCQ290NVS-PCIEX1-PB  | 256MB GDDR2              | 64-bit           | 16         | LP <sup>3</sup> x 6.60" | 21W - Passive   | DMS-59                      | 2            |                              |                              |     |                                   |
| Quadro NVS 295 x16 for DisplayPort |      | VCQ295NVS-X16-PB     | 256MB GDDR3              | 64-bit           | 8          | LP <sup>3</sup> x 6.60" | 23W - Passive   | DP (2)                      | 2            |                              |                              |     |                                   |
| Quadro NVS 295 x16 for DVI         |      | VCQ295NVS-X16-DVI-PB | 256MB GDDR3              | 64-bit           | 8          | LP <sup>3</sup> x 6.60" | 23W - Passive   | DP to DVI (2)               | 2            |                              |                              |     |                                   |
| Quadro NVS 295 x1 for DisplayPort  |      | VCQ295NVS-X1-PB      | 256MB GDDR3              | 64-bit           | 8          | LP <sup>3</sup> x 6.60" | 23W - Passive   | DP (2)                      | 2            |                              |                              |     |                                   |
| Quadro NVS 295 x1 for DVI          |      | VCQ295NVS-X1-DVI-PB  | 256MB GDDR3              | 64-bit           | 8          | LP <sup>3</sup> x 6.60" | 23W - Passive   | DP to DVI (2)               | 2            |                              |                              |     |                                   |
| QUADRO NVS QUAD MONITOR            |      |                      |                          |                  |            |                         |                 |                             |              |                              |                              |     |                                   |
| Quadro NVS 420 x16 for DisplayPort |      | VCQ420NVS-X16-DP-PB  | 512MB GDDR3 <sup>4</sup> | 128-bit          | 16         | LP <sup>3</sup> x 6.60" | 40W - Active    | VHDCI (1)                   | 4            |                              |                              |     |                                   |
| Quadro NVS 420 x16 for DVI         |      | VCQ420NVS-X16-DVI-PB | 512MB GDDR3 <sup>4</sup> | 128-bit          | 16         | LP <sup>3</sup> x 6.60" | 40W - Active    | VHDCI (1)                   | 4            |                              |                              |     |                                   |
| Quadro NVS 420 x1 for DisplayPort  |      | VCQ420NVS-X1-DP-PB   | 512MB GDDR3 <sup>4</sup> | 128-bit          | 16         | LP <sup>3</sup> x 6.60" | 40W - Active    | VHDCI (1)                   | 4            |                              |                              |     |                                   |
| Quadro NVS 420 x1 for DVI          |      | VCQ420NVS-X1-DVI-PB  | 512MB GDDR3 <sup>4</sup> | 128-bit          | 16         | LP <sup>3</sup> x 6.60" | 40W - Active    | VHDCI (1)                   | 4            |                              |                              |     |                                   |
| Quadro NVS 450 x16 for DisplayPort |      | VCQ450NVS-X16-PB     | 512MB GDDR3 <sup>4</sup> | 128-bit          | 16         | FH x 6.60"              | 35W - Passive   | DP (4)                      | 4            |                              |                              |     |                                   |
| Quadro NVS 450 x16 for DVI         |      | VCQ450NVS-X16-DVI-PB | 512MB GDDR3 <sup>4</sup> | 128-bit          | 16         | FH x 6.60"              | 35W - Passive   | DP to DVI (4)               | 4            |                              |                              |     |                                   |

<sup>1</sup> FH = Full Height ATX, 4.376"

<sup>2</sup> DP = DisplayPort. NVIDIA certified DP to VGA adapters are available from PNY

<sup>3</sup> LP = Low Profile, 2.731". Full Height bracket also supplied

<sup>4</sup> 512MB total frame buffer (256MB GDDR3 memory per GPU)

<sup>5</sup> NVIDIA Quadro by PNY models available as HD SDI versions

<sup>6</sup> NVIDIA Quadro by PNY models available as G-Sync versions



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