



NVIDIA® Quadro® 6000 SDI by PNY Technologies®

VCQ6000SDI-PB

NVIDIA Quadro 6000 SDI by PNY Technologies is the ideal solution for digital broadcast professionals, who use various applications such as virtual-sets, sports, and weather news systems to composite live video footage onto virtual backgrounds and send the result to live video for TV broadcast. NVIDIA Quadro SDI solutions also allow film production, post-production, and finishing professionals to preview the results of 3D compositing, editing, and color grading in real time on high definition (HD) broadcast monitors. This graphics-to-video-out solution delivers uncompressed 8-, 10-, or 12-bit SDI from programmable graphics, enabling a direct connection to broadcast monitors, switchers, tape decks, or SDI projectors.

The Quadro SDI solution provides two channels—fill or key—of 8-, 10-, or 12-bit uncompressed SDI in 2K, HD, or SD formats, and analog and digital house synchronization. It supports both Microsoft® Windows® and Linux®, and works on top of existing applications, or can be easily integrated within a broadcast or video editing application through the NVIDIA API.

PNY Advantage:

- 3 year warranty
- Support for NVIDIA Quadro by PNY in all system brands
- Pre- and post-sales technical support
- 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:

| | |
|---|---|
| Memory | 6GB GDDR5 |
| Memory Interface | 384-bit |
| Memory Bandwidth | 144GB/sec |
| CUDA Parallel Processing Cores | 448 |
| Physical dimensions (Quadro 6000) | ATX form factor, 4.376 inches high x 9.75 inches long Dual Slot |
| Physical dimensions (SDI Output Card) | ATX form factor, 3.875 inches high x 6.60 inches long |
| Maximum Power Consumption (Quadro 6000) | 204W |
| Maximum Power Consumption (SDI Output Card) | 7W |
| Graphics Bus (Quadro 6000) | PCI Express Gen 2 x16 |
| Graphics Bus (SDI Output Card) | Not applicable, for mechanical stabilization only |
| Display Connectors (Quadro 6000) | DVI-I DL + DisplayPort (2) + ST |
| Dual Link DVI | Yes (1), used by crossover cable |
| DisplayPort | Yes (2) |
| Connectors (SDI Output Card) | BNC Fill, BNC Key, BNC Input (Sync) |
| Auxiliary power connectors (Quadro 6000) | Yes (2), one 8-pin and one 6-pin |
| Thermal Solution (Quadro 6000) | Active fansink |
| PNY part number | VCQ6000SDI-PB |



For more information visit: www.pny.com/quadro



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NVIDIA® Quadro® by PNY

Professional Solutions. Professional Support.

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

¹ FH = Full Height ATX, 4.376"

² DP = DisplayPort. NVIDIA certified DP to VGA adapters are available from PNY

³ LP = Low Profile, 2.731". Full Height bracket also supplied

⁴ 512MB total frame buffer (256MB GDDR3 memory per GPU)

⁵ NVIDIA Quadro by PNY models available as HD SDI versions

⁶ NVIDIA Quadro by PNY models available as G-Sync versions



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