



NVIDIA® Quadro® K6000 SDI I/O

VCQK6000SDI-IO-PB

ULTIMATE GRAPHICS PERFORMANCE FOR DEMANDING SDI WORKFLOWS

Offering 12GB of GDDR5 graphics memory, 2880 NVIDIA CUDA® parallel processing cores, and built on the latest NVIDIA Kepler™ architecture, the NVIDIA Quadro K6000 SDI I/O delivers unmatched performance when utilizing sophisticated virtual sets, augmented reality broadcast environments, or rendering richer scene details and effects for video, film, or broadcast production workflows that depend on the ingest and output of SDI 2K, HD or SD video.

The NVIDIA SDI Capture board manages up to 4 HD-SDI Single Link sources simultaneously and supports all SMPTE standard formats (3G, 2K, HD, SD) with ultra-low latency directly to GPU memory, while the SDI Output board can preview the results of 3D compositing, editing, and color grading in real-time on high definition broadcast monitors. The 8-, 10-, or 12-bit SDI generated from programmable graphics enables a direct connection to broadcast displays, switchers, tape decks, or SDI projectors.

PACKAGE INCLUDES

- NVIDIA Quadro K6000 professional graphics board
- Stereo connector bracket
- Two DisplayPort to DVI-D SL adapters
- DVI to VGA adapter
- Two 6-pin auxiliary power cables
- One 4-pin auxiliary power cable

- Software installation and documentation disc for Windows
- NVIDIA Quadro SDI Capture board
- NVIDIA Quadro SDI Output board
- DVI to DVI crossover cable and ribbon connector cable
- Cable retention clips

PNY ADVANTAGE

- 3 year warranty
- Support for NVIDIA Quadro in any system brand
- 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 and delivers a complete solution including the appropriate adapters, cables, brackets, software installation disc, and PDF and printed documentation to ensure a quick and successful installation process.



For more information visit
www.pny.com/quadro

PRODUCT SPECIFICATIONS

CUDA Cores	2880
GPU Memory	12GB GDDR5
Memory Interface	384-bit
Memory Bandwidth	288GB/s
K6000 System Interface	PCI Express 3.0 x16
SDI Capture System Interface	PCI Express 2.0 x16
SDI Output System Interface	Any available slot
K6000 Maximum Power	225W
SDI Capture Maximum Power	20W
SDI Output Maximum Power	14W
Energy Star Enabling	Yes
K6000 Thermal Solution	Ultra-quiet active fansink
SDI Capture Thermal Solution	Ultra-quiet active fansink
SDI Output Thermal Solution	Passive
K6000 Dimensions	4.376" H x 10.50" L, dual slot
SDI Capture Dimensions	4.376" H x 9.75" L, single slot
SDI Output Dimensions	3.875" H x 6.60" L, single slot
K6000 Display Connectors	DVI-DL (2) + DP 1.2 (2) + Stereo
DisplayPort 1.2	Yes
DisplayPort with Audio	Yes
DVI-D SL Connectors	Yes, via included adapters
VGA Connector	Yes, via included adapter
Number of Displays Supported	3 (4 with DP 1.2 MST)
SDI Capture Connectors	4 BNC inputs + BNC SDI output
SDI Output Connectors	3 BNC (SDI Fill, SDI Key, Genlock)
Maximum DP 1.2 Resolution	4096 x 2160 at 60Hz
Maximum DVI-DL Resolution	2560 x 1600 at 60Hz
Maximum DVI-SL Resolution	1920 x 1200 at 60Hz
Maximum VGA Resolution	2048 x 1536 at 85Hz
HDCP Support	Yes
Professional 3D Support	Yes, via included stereo connector bracket
Graphics APIs	Shader Model 5.0, OpenGL 4.3, DirectX 11
Compute APIs	CUDA, DirectCompute, OpenCL
NVIDIA 3D Vision and 3D Vision Pro	Yes
PNY Part Number	VCQK6000SDI-IO-PB