PART NUMBER: VCQK5200-PB

NVIDIA Quadro K5200 by PNY

UNBEATABLE MEMORY AND GRAPHICS PERFORMANCE

Accelerate your creativity with NVIDIA® Quadro®—the world's most powerful workstation graphics. Support for multiple 4K displays, large memory capacity, advanced photorealistic rendering and flexible multi-GPU configurations.



The NVIDIA Quadro K5200 gives you amazing application performance and capability, making it faster and easier to accelerate 3D models, render complex scenes, and simulate large datasets. 8 GB of GDDR5 GPU memory with ultra-fast bandwidth allows you to create and render large, complex models and compute massive datasets. Plus, there's the DisplayPort 1.2 support for ultra-high resolutions up to 4096 x 2160 @ 60 Hz with 3O-bit color and the all-new display engine that drives up to four displays natively. Quadro Sync also lets you frame-lock multiple displays together and take advantage of SDI video input/output support.

NVIDIA Quadro is the world's most advanced visual computing platform for workstations. Much more than a powerful graphics accelerator for sophisticated applications used by professionals, NVIDIA Quadro enables you to create and collaborate in exciting new ways. This makes it the #1 solution for designing, visualizing, and simulating your ideas.

NVIDIA Quadro by PNY GPUs are designed, built, and tested by NVIDIA specifically for professional workstations powering more than 150 professional applications across a broad range of industries, including manufacturing, media and entertainment, sciences, and energy.

QUADRO K5200 · PRODUCT SPECIFICATIONS

GPU MEMORY	8 GB GDDR5
MEMORY INTERFACE	256-bit
MEMORY BANDWIDTH	192 GB/s
CUDA CORES	2304
SYSTEM INTERFACE	PCI Express 3.0 x16
MAX POWER CONSUMPTION	150 W
THERMAL SOLUTION	Ultra-quiet active fansink
FORM FACTOR	111.15 mm (H) x 266.7 mm (L) Dual Slot, Full Height
DISPLAY CONNECTORS	1 x DVH DL, 1 x DVH DL 2 x DP1.2, 1 x Stereo ¹
MAX SIMULTANEOUS DISPLAYS	4
MAX DP 1.2 RESOLUTION	4096 x 2160 @ 60 Hz
MAX DVI-I DL RESOLUTION	2560 x1600 @ 60 Hz 1920 x1200 @ 120 Hz
MAX DVI-I SL RESOLUTION	1920 x1200 @ 60 Hz
MAX VGA RESOLUTION	2048 × 1536 at 85 Hz
GRAPHICS APIS	Shader Model 5.0, OpenGL 4.5 ² , DirectX 11.2 ³
COMPUTE APIS	CUDA, DirectCompute, OpenCL
PACKAGE CONTENT	- 2 x DP to DVI (SL) adapter P/N: QSP-DPDVISL - DVI to VGA adapter P/N: QSP-DVIVGA - Stereo Connector P/N: QSP-STERE0Q4000-PB
PART NUMBER	VCQK5200-PB
EAN NUMBER	3536403343880

¹ Via supplied adapter/connector/bracket

Current conformance status can be found at www.khronos.org/conformance

³ GPU supports DX 11.2 API, Hardware Feature Level DX 11.0

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² Product is based on a published Khronos Specification, and is expected to pass the Khronos Conformance Testing Process when available.

Quadro K5200 · TECHNICAL SPECIFICATIONS AND FEATURES

	A new display engine drives up to four displays and DisplayPort 1.2 support for ultra-high resolutions up to 4096x2160 @ 60 Hz with 30-bit color. NVIDIA SYNC allows multiple displays to be frame-locked together.
AMAZING GRAPHICS AND RENDERING PERFORMANCE	The NVIDIA GPU architecture delivers incredible application perfor- mance in everything from accelerating 3D models and rendering com- plex scenes to simulating large datasets.
8 GB GDDR5 GPU MEMORY WITH ULTRA-FAST BANDWIDTH	Large GPU memory with fast bandwidth enables the creation and ren- dering of large, complex models.

Quadro K5200 - FEATURES

- DisplayPort 1.2
- DisplayPort with Audio
- DVI-D Dual-Link Connector
- VGA Support
- Professional 3D Support
- NVIDIA 3D Vision[™] Pro
- Quadro Sync Compatibility
- HD SDI Capture / Output Compatibility

QUADRO K5200 - TECHNICAL SPECIFICATIONS

SUPPORTED PLATFORMS

- Microsoft Windows 8.1 (64-bit and 32-bit)
- Microsoft Windows 8 (64-bit and 32-bit)
- Microsoft Windows 7 (64-bit and 32-bit)
- Microsoft Windows XP (64-bit and 32-bit)
- Linux® Full OpenGL implementation, complete with NVIDIA and ARB extensions (64-bit and 32-bit))

3D GRAPHICS ARCHITECTURE

- Scalable geometry architecture
- Hardware tessellation engine
- NVIDIA® GigaThread[™] engine with dual copy engines
- Shader Model 5.0 (OpenGL 4.53 and DirectX 11.23)
- Up to 16K x16K texture and render processing
- Transparent multisampling and super sampling
- 16x angle independent anisotropic filtering
- 128-bit floating point performance
- 32-bit per-component floating point texture filtering and blending
- 64x full scene antialiasing (FSAA)/128x FSAA in SLI Mode
- Decode acceleration for MPEG-2, MPEG-4 Part 2 Advanced Simple Profile, H.264, MVC, VC1, DivX (version 3.11 and later), and Flash (10.1 and later)
- Dedicated H.264 Encoder
- Blu-ray dual-stream hardware acceleration (supporting HD picture-in-picture playback)
- Quadro Boost (Automatically adjusts GPU engine throughput to maximize application performance.)

PARALLEL COMPUTING CAPABILITIES

- SMX Architecture (streaming multi-processor design that delivers greater processing and efficiency)
- Hyper Q
- Dynamic Parallelism (GPU dynamically spawns new threads without going back to the CPU)
- API support includes: CUDA C, CUDA C++, DirectCompute 5.0, OpenCL, Java, Python, and Fortran
- NVIDIA® Parallel DataCache™ hierarchy (configurable L1 and unified L2 caches)





- NVIDIA GPUDirect[™] Support
- NVIDIA nView[®] Desktop Management Software Compatibility
- Stereo Connector
- HDCP Support
- NVIDIA Mosaic Mode²
- Energy Star Enabling
- 64 KB of RAM (configurable partitioning of shared memory and L1 cache) Dual Warp Scheduler (schedules and dispatches simultaneously instructions from two independent warps)

ADVANCED DISPLAY FEATURES

- 30-bit color (10-bit per each red, green, blue channel)
- Support for any combination of four connected displays
- Dual DisplayPort 1.2 (supporting resolutions such as 4096x2160 @60 Hz)
 Dual-link DVI-/DVI-D outputs (up to 2560 x1600 @ 60 Hz and
- 1920x1200 @ 120 Hz)
 Internal 400 MHz DAC DVI-I output (analog display up to
- 2048x1536 @ 85 Hz)
 DisplayPort to VGA, DisplayPort to DVI (single-link and dual-link) and DisplayPort
- to HDMI cables (resolution support based on dongle specifications)
- HDCP support over DisplayPort, DVI and HDMI connectors
- 10-bit internal display processing (hardware support for 10-bit scanout for both windowed desktop and full screen, only available on Windows and Linux with Aero disabled)
- NVIDIA 3D Vision[™] technology, 3D DLP, interleaved, and other 3D stereo format support
- Full OpenGL quad buffered stereo support
- Underscan/overscan compensation and hardware scaling
- Support for NVIDIA® Quadro® Mosaic, NVIDIA® nView® multi-display technology, NVIDIA® Enterprise Management Tools
- Support for large-scale, ultra-high resolution visualization using the Quadro SVS platformwhich includes Quadro Mosaic, Quadro Sync and Warp/Blend technologies

DISPLAY PORT AND HDMI DIGITAL AUDIO

- Support for the following audio modes: Dolby Digital (AC3), DTS 5.1, Multichannel (7.1) LPCM, Dolby Digital Plus (DD+), andMPEG-2/MPEG-4 AAC
- Data rates of 44.1 KHz, 48 KHz, 88.2 KHz, 96 KHz, 176 KHz, and 192 KHz
- Word sizes of 16 bits, 20 bits, and 24 bits



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PACKAGE CONTENT:

2 x DP to DVI (SL) adapter
DVI to VGA adapter
Stereo Additional Connector

- Drivers + Installation Guide

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P/N: QSP-DPDVISL P/N: QSP-DVIVGA P/N: QSP-STEREOQ4000-PB

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