

PNY_RTXA400-4GB-PB

PNY nVidia Quadro A400 4GB GDDR6 PCI-express 4.0 x8 64-bit Graphics card, mDP

Product Overview

PNY nVidia Quadro A400 4GB GDDR6 PCI-express 4.0 x8 64-bit Graphics card, low profile, 50W, 768 CUDA Cores, 24 Tensor Cores, 6 RT Cores, 4x Mini DisplayPort 1.4a, Active fan Thermal solution



Specifications

Overview:

NVIDIA RTX A400 Performance for endless possibilities.

The NVIDIA RTX A400, built on the NVIDIA Ampere GPU architecture, brings the power of AI and ray-tracing acceleration into the hands of more professionals. The RTX A400 ensures AI-powered workflows and stunning ray-traced visuals are delivered with unprecedented performance in a space-saving design. Plus, you can connect up to four native displays to expand your visual horizons.

With its compact form factor, the RTX A400 fits effortlessly into any workstation, providing the necessary performance and capabilities for today's professional workflows without compromising on efficiency or workspace.

Features:

NVIDIA Ampere Architecture

The NVIDIA Ampere architecture is designed to tackle the world's most important scientific, industrial, and business challenges. Delivers up to 2.5X the single precision (FP32) performance of the previous generation. Improved graphics performance due to new process.

Second Generation RT Cores

Experience up to 4X the rendering performance with second-generation RT Cores, which offer double the efficiency in rendering. Accelerated motion blur, enhanced denoising, and a twofold increase in ray-triangle intersection speeds, along with the ability to perform concurrent RT operations, dramatically elevate the realism and speed of visual projects.

Third Generation Tensor Cores

Third-generation Tensor cores deliver incredible performance for AI-powered workflows, providing up to 2.5X the generative AI performance over the previous generation. The Ampere GPU architecture supports a wider range of data formats, with support for Tensor Float 32 (TF32) precision, FP32, FP16, BF16, and INT4 data formats.

PCIe Gen 4

Unlock faster data-transfer speeds for data-intensive tasks with support for PCIe Gen 4, enhancing communication between CPU, memory, GPU, and streamlining your workflow efficiency.

High Performance GDDR6 Memory

Take advantage of 4GB of GDDR6 memory and a 20% increase in memory bandwidth. This boosts application performance, especially for content creation and CAD workflows, and compute-intensive tasks, resulting in smoother operations and greater efficiency when handling demanding projects. NVIDIA RTX A400 is an ideal platform for 3D professionals and multi-display environments, where integrated graphics fall short.

H.264 and HEVC Encode/Decode Engines

Deliver faster than real-time performance for transcoding, video editing, and other encoding applications with two dedicated H.264 and HEVC encode engines and a dedicated decode engine that are independent of 3D/compute pipeline.

Fifth Generation NVDEC Engine

NVDEC is well suited for transcoding and video playback applications for real-time decoding. The following video codecs are supported for hardware-accelerated decoding: MPEG-2, VC-1, H.264 (AVCHD), H.265 (HEVC), VP8, VP9, and AV1.

Seventh Generation NVENC Engine

NVENC can take on 4K or 8K video encoding tasks to free up the graphics engine and the CPU for other operations. The RTX A1000 provides better encoding quality than software-based x264 encoders.

Graphics Preemption

Pixel-level preemption provides more granular control to better support time-sensitive tasks such as VR motion tracking.

Compute Preemption

Preemption at the instruction level provides finer-grain control over compute tasks to prevent long-running applications from either monopolizing system resources or timing out.

NVIDIA RTX IO

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Product Specification Sheet

Accelerate GPU-based lossless decompression performance by up to 100x and 20x lower CPU utilization compared to traditional storage APIs using Microsoft's DirectStorage for Windows API. RTX IO moves data from the storage to the GPU in a more efficient, compressed form, improving I/O performance.

NVIDIA Mosaic Technology

Transparently scale the desktop and applications across up to 4 GPUs and 16 displays from a single workstation while delivering full performance and image quality.

Get more Mosaic topology choices with high-resolution display devices with a 32K max desktop size.

DisplayPort 1.4a

Support up to four 5K monitors @ 60Hz per card. The RTX A1000 supports HDR color for 4K at 60Hz for 10/12b HEVC decode and up to 4K at 60Hz for 10b HEVC encode. Each DisplayPort connector can drive ultra-high resolutions of 4096 x 2160 at 120 Hz with 30-bit color.

NVIDIA RTX Desktop Manager

Gain unprecedented end-user control of the desktop experience for increased productivity in single-large display or multi-display environments, especially in the current age of large, widescreen displays.

NVIDIA RTX Experience

NVIDIA RTX Experience delivers a suite of productivity tools to your desktop workstation, including desktop recording, automatic alerts for the latest NVIDIA RTX Enterprise driver updates, and access gaming features.

Software Optimized for AI

Deep learning frameworks such as Caffe2, MXNet, CNTK, TensorFlow, and others deliver dramatically faster training times and higher multi-node training performance. GPU-accelerated libraries such as cuDNN, cuBLAS, and TensorRT deliver higher performance for both deep learning inference and high-performance computing (HPC) applications.

NVIDIA CUDA Parallel Computing Platform

Natively execute standard programming languages like C/C++ and Fortran, and APIs such as OpenCL, OpenACC, and Direct Compute to accelerate techniques such as ray tracing, video and image processing, and computation fluid dynamics.

Unified Memory

A single, seamless 49-bit virtual address space allows for the transparent migration of data between the full allocation of CPU and GPU memory.

NVIDIA Enterprise-Management Tools

Maximize system uptime, seamlessly manage wide-scale deployments, and remotely control graphics and display settings for efficient operations.

Specifications:

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Specifications	
Product Code	PNY_RTXA400-4GB-PB
Product	NVIDIA RTX A400
Architecture	NVIDIA Ampere
Process Size	8N , NVIDIA Custom Process
Transistors	8.7 Billion
Die Size	200 mm
CUDA Cores	768
Tensor Cores	24

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Product Specification Sheet

RT Cores	6
Single Precision Performance	2.7 TFLOPS
RT Core Performance	5.3 TFLOPS
Tensor Performance	21.7 TFLOPS
GPU Memory	4 GB GDDR6
Memory Interface	64-bit
Memory Bandwidth	96 GB/sec
Display Connectors	4x mDisplayPort 1.4a
NVENC , NVDEC	1x , 2x (+ AV1 decode)
System Interface	PCI Express 4.0 x8
Form Factor	2.7" H x 6.4" L Single Slot
Thermal Solution	Active Fan
Maximum Power Consumption	50 W
Max Digital Resolution	Support up to four 5K monitors @ 60Hz per card

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: https://www.comx.co.za/PNY_RTXA400-4GB-PB-PNY-nVidia-Quadro-A400-4GB-GDDR6-Buy-p-306926.php

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