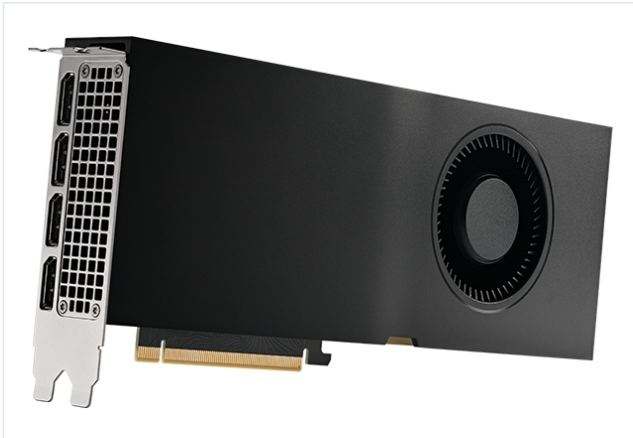


SC-PQA5500

PNY Quadro A5500 GA102 Ampere 384bit 24GB GDDR6 with ECC PCI-e 4.0 16x Graphics card, DP

Product Overview

PNY Quadro A5500 GA102 Ampere 384bit 24GB GDDR6 with ECC PCI-e 4.0 16x Graphics card, Support 100Gb/s RTX NVLink HB, 2 slots required, For Professional 3D applications, with Hardware OpenGL 4.6 + DirectX 12 + shader model 6.5 + Vulkan 1.2, 10240 CUDA cores + 320 Tensor Core + 80 RT cores, 10MB L1 + 6MB L2 Cache, 162.7 GPixel/sec, 542 GTexels/sec, 34710 GFlops, 320x tmus, 96 RoPs, 4x DisplayPort, with DP to DVI Adapter, Require 1x 8 pin power connector



Specifications

Graphics card at a glance:

The PNY NVIDIA RTX A5500 is engineered for professionals in South Africa who work in 3D design, video production, simulation, CAD, and AI. With 24GB of ECC-enabled GDDR6 memory and support for massive data sets, it's ideal for workstations that require top-tier performance, precision, and stability. Supporting hardware ray tracing, AI acceleration, and ultra-high resolutions, this card enables real-time workflows, massive model manipulation, and ultra-responsive multi-app environments.

- GPU: NVIDIA RTX A5500
- GPU CODE: SC-PQA5500
- Maximum digital resolution (pixels): 7680 x 4320
- Stream processors (SP): 10240
- Engine clock (min ~ max MHz): -
- Video memory (size): 24GB
- Video memory (type): GDDR6 with ECC
- Memory clock (MHz): -
- Memory bus (bit): 384-bit
- Bus Standard: PCI Express 4.0 x16
- Over-clock-able: No
- Dimension in cm: 26.7 x 11.2
- Slot: Dual Slot
- PSU recommended: 230W (min)
- Power connector: 1 x 8-pin PCIe
- Max. number of monitors: 4
- Video ports: 4 x DisplayPort 1.4a

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Product Specification Sheet

- Suggested uses: 3D rendering, CAD/CAE, simulation, scientific visualization, AI inference, video production, high-resolution display walls

Overview:

NVIDIA RTX A5500 - The Power to Create.

NVIDIA RTX technology revolutionized the way professionals work by delivering the power of real-time ray tracing, AI, and advanced graphics to millions of designers, artists, scientists, and researchers. Now, the NVIDIA Ampere architecture paves the way for a new era of innovative products, immersive entertainment, life-saving discoveries, and breathtaking designs-powered by the second generation of NVIDIA RTX.

NVIDIA RTX A5500 unleashes new levels of performance, capability, and collaboration for professionals, inspiring them to create without boundaries by enabling artists, designers, engineers, and scientists to bring their imagination and insights to life. Designed for demanding workloads, the NVIDIA RTX A5500 provides professionals the ability to simultaneously run multiple applications with smooth interactions and no performance impacts. NVIDIA RTX A5500 delivers the stability, reliability, performance, and features required to build high-quality, immersive content and collaborate from anywhere. With 24 GB of GPU memory, expandable to 48GB with NVLink, the NVIDIA RTX A5500 easily handles large models, datasets, 3D renders, and complex scenes with higher fidelity and interactivity, helping users unlock new vistas of imagination and creativity from their desktops.

Features:

NVIDIA Ampere Architecture

NVIDIA RTX A5500 is the most balanced workstation GPU offering high performance real-time ray tracing, AI-accelerated compute, and professional graphics rendering within an optimized power envelope. Building upon the major SM enhancements from the Turing GPU, the NVIDIA Ampere architecture enhances ray tracing operations, tensor matrix operations, and concurrent executions of FP32 and INT32 operations.

CUDA Cores

The NVIDIA Ampere architecture-based CUDA cores bring up to 3x the single-precision floating point (FP32) throughput compared to the previous generation, providing significant performance improvements for graphics workflows such as 3D model development and compute for workloads such as desktop simulation for computer-aided engineering (CAE). The RTX A5500 enables two FP32 primary data paths, doubling the peak FP32 operations.

Second Generation RT Cores

Incorporating second generation ray tracing engines, NVIDIA Ampere architecture-based GPUs provide incredible ray traced rendering performance. A single RTX A5500 board can render complex professional models with physically accurate shadows, reflections, and refractions to empower users with instant insight. Working in concert with applications leveraging APIs such as NVIDIA OptiX, Microsoft DXR and Vulkan ray tracing, systems based on the RTX A5500 will power truly interactive design workflows to provide immediate feedback for unprecedented levels of productivity. The RTX A5500 is up to 2x faster in ray tracing compared to the previous generation. This technology also speeds up the rendering of ray-traced motion blur for faster results with greater visual accuracy.

Third Generation Tensor Cores

Purpose-built for deep learning matrix arithmetic at the heart of neural network training and inferencing functions, the RTX A5500 includes enhanced Tensor Cores that accelerate more datatypes, and includes a new Fine-Grained Structured Sparsity feature that delivers up to 2X throughput for tensor matrix operations compared to the previous generation. New Tensor Cores will accelerate two new TF32 and BFloat16 precision modes. Independent floating-point and integer data paths allow more efficient execution of workloads using a mix of computation and addressing calculations.

PCIe Gen 4

The RTX A5500 supports PCI Express Gen 4, which provides double the bandwidth of PCIe Gen 3, improving data-transfer

speeds from CPU memory for data-intensive tasks like AI and data science.

Higher Speed GDDR6 Memory

Built with 24 GB GDDR6 memory delivering up to 50% greater throughput for ray tracing, rendering, and AI workloads than the previous generation. The RTX A5500 provides a capacious graphics memory footprint to address the largest datasets and models in latency-sensitive professional applications.

Error Correcting Code (ECC) on Graphics Memory

Meet strict data integrity requirements for mission critical applications with uncompromised computing accuracy and reliability for workstations.

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 the most demanding 4K or 8K video encoding tasks to free up the graphics engine and the CPU for other operations. The RTX A5500 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

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

Specifications:

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Specifications	
Product Code	SC-PQA5500
Architecture	NVIDIA Ampere Architecture
Process Size	8nm
Transistors	28.3 Billion
Die Size	628.4 mm2
CUDA Cores	10240
Tensor Cores	320
RT Cores	80
Single Precision Performance	34.1 TFLOPS
RT Core Performance	66.6 TFLOPS

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Product Specification Sheet

Tensor Performance	272.8 TFLOPS
GPU Memory	24 GB GDDR6 with ECC
Memory Interface	384-bit
Memory Bandwidth	768 GB/sec
Display Connectors	4x DisplayPort 1.4a
NVENC, NVDEC	1x, 2x (+ AV1 decode)
System Interface	PCI Express 4.0 x16
Form Factor	4.4" H x 10.5" L Dual Slot
Thermal Solution	Active Fansink
Maximum Power Consumption	230 W
Power Connector	1x 8-pin PCIe
Max Digital Resolution	7680 x 4320 x36 bpp at 60 Hz
vGPU Software Support	NVIDIA Virtual PC (vPC), NVIDIA Virtual Applications (vApps), and NVIDIA RTX Virtual Workstation
NVIDIA 3D Vision and 3D Vision Pro	Support via 3-pin mini DIN
Frame Lock	Compatible with NVIDIA Quadro Sync II
NVLink	2-way low profile (2-slot and 3-slot bridges) connects 2x NVIDIA RTX A5500
NVLink Interconnect	112.5 GB/sec bidirectional

Product Information Online

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

Product page:

<https://www.comx-computers.co.za/SC-PQA5500-PNY-Quadro-A5500-GA102-Ampere-384bit-24GB-Buy-p-266043.php>

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