HP NVIDIA RTX PH x4xxx 4DP Graphics

Model: B11F3AA

Manufacturer: HP INC.

EAN: 198828194282

Product Code: 1057462

R80,942

The Ultimate Single-Slot GPU for AI, Neural Rendering, and Precision Workflows

Experience the power of the most advanced single-slot GPU for professionals. Powered by NVIDIA Blackwell architecture, NVIDIA RTX PRO™ 4000 Blackwell delivers breakthrough AI performance, neural graphics, and unmatched efficiency to unlock new experiences and accelerate demanding workflows. Equipped with 24GB of ultra-fast memory, fifth-generation Tensor Cores, and fourth-generation RT Cores, work with large datasets, accelerate generative AI workflows, and render photorealistic scenes at blazing speeds.

Features

Powered by NVIDIA Blackwell Architecture

5th Gen Tensor Cores

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Fifth-generation Tensor Cores deliver up to 3X the performance of the previous generation and add support for FP4 precision and DLSS 4 Multi Frame Generation technology. Accelerate local LLMs, prototype new AI models, and drive enhanced content creation and graphics.

4th Gen RT Cores

Fourth-generation RT Cores deliver up to 2X the performance of the previous generation, accelerating rendering for M&E content creation, AECO design, and manufacturing prototyping. Create photoreal, physically accurate scenes and immersive 3D designs with neural graphics-based technologies, such as RTX Mega Geometry, enabling up to 100X more ray-traced triangles.

CUDA Cores

NVIDIA Blackwell is the most powerful professional RTX GPU ever created with the latest SM and CUDA® core technology. The SM features increased processing throughput, and new neural shaders that integrate neural networks inside of programmable shaders to drive the next decade of AI-augmented graphics innovations.

24GB of GPU Memory

New and improved GDDR7 memory significantly boosts bandwidth and capacity, empowering your applications to run faster, and work with larger, more complex datasets. With 24GB of GPU memory, tackle large 3D and AI projects, explore immersive VR environments, and drive multi-app workflows.

9th-Gen NVENC

Ninth-generation NVIDIA NVENC engines significantly accelerate video encoding speed, and improve quality for professional video applications. They add support for 4:2:2 H.264 and HEVC encoding, and improve HEVC and AV1 encoding quality.

6th Gen NVDEC

Sixth-generation NVIDIA NVDEC engines provide up to double H.264 decoding throughput and offer support for 4:2:2 H.264 and HEVC decode. Professionals can benefit from high-quality video

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playback, accelerate video data ingestion, and use advanced AI-powered video editing features.

PCIe Gen 5

Support for PCI Express Gen 5 provides double the bandwidth of PCIe Gen 4, improving data-transfer speeds from CPU memory and unlocking faster performance for data-intensive tasks like AI, data science, and 3D modeling.

DisplayPort 2.1

With DisplayPort 2.1, professionals can achieve unparalleled visual clarity and performance, driving high-resolution displays at up to 8K at 240Hz and 16K at 60Hz. Increased bandwidth enables seamless multi-monitor setups, ideal for multitasking and collaboration, while HDR and higher color depth support ensures superior color accuracy for precision work, such as video editing, 3D design, and live broadcasting.

Workloads

Multi-Workload Acceleration

Generative AI

Create new and original content.

Unlock unprecedented creativity and productivity with generative AI. The RTX PRO 4000 accelerates content creation, empowering you to generate stunning, high-fidelity images, videos, and 3D assets at unprecedented speeds. Experience accelerated inference performance in generative AI applications to bring your most ambitious ideas to life in record time, changing the boundaries of entertainment, design, and innovation across industries.

AI-Driven Rendering and Graphics

Deliver stunningly realistic designs and simulations with speed and precision.

The RTX PRO 4000 transforms creative workflows with next-gen RTX capabilities, fusing AI with cutting-edge ray tracing for neural graphics. RTX Neural Shaders automate complex lighting and textures, while DLSS 4 enables real-time photorealistic rendering through AI-powered upscaling. These advancements accelerate 3D modeling, animation, and virtual production across film, gaming, and architectural visualization.

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Video Content and Streaming

Boost performance for live media and video pipelines.

The RTX PRO 4000 boosts performance for live media and video production pipelines. With 4:2:2 support and advanced encoding/decoding engines, it ensures pristine color accuracy and accelerated processing of high-resolution content. With improved AV1 and H.265 codec support, it’s ideal for livestreaming, real-time editing, and live media workflows.

Digital Content Creation

Accelerate content creation with real-time rendering and interactivity in 3D applications

Unlock your creative potential and bring your inspiring visions to life with RTX PRO 4000. Experience accelerated performance, real-time rendering, and AI-powered tools for higher fidelity visual quality and seamless workflow efficiency.

Data Science

Accelerate your data pipelines.

RTX PRO 4000 gives you the performance you need to quickly transform massive datasets into insights with 24GB of ultra-fast G7 memory. RTX PRO 4000 combined with NVIDIA AI delivers a complete AI platform from desktop workstations.

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