

Specifications

	NVIDIA RTX PRO 5000 Blackwell	NVIDIA RTX PRO 5000 72GB Blackwell
PNY Part Number	VCNRTXPRO5000B-PB	VCNRTXPRO5000B72-PB
GPU Architecture	NVIDIA Blackwell	
NVIDIA® CUDA® Cores	14,080	
Tensor Cores	Fifth generation	
Ray Tracing Cores	Fourth generation	
AI TOPS	2,064 AI TOPS ^{1,2}	
Single-Precision Performance	65 TFLOPS ¹	
RT Core Performance	196 TFLOPS ¹	
GPU Memory	48 GB GDDR7 with ECC	72 GB GDDR7 with ECC
Memory Interface	512-bit	
Memory Bandwidth	1,344 GB/s	
System Interface	PCIe 5.0 x16	
Display Connectors	4x DisplayPort 2.1b	
Max Simultaneous Displays	>4x 4,096 x 2,160 @ 120 Hz >4x 5,120 x 2,880 @ 60 Hz >2x 7,680 x 4,320 @ 60 Hz	
Video Engines	3x NVENC (ninth gen) 3x NVDEC (sixth gen)	
MIG Support	>Up to 2x 24 GB >Up to 1x 48 GB	>Up to 2x 36 GB >Up to 1x 72 GB
Power Consumption	Total board power: 300 W	
Power Connector	1x PCIe CEM5 16-pin	
Thermal Solution	Active	
Form Factor	4.4" x 10.5" L, dual slot, full height	
Graphics APIs	DirectX 12, Shader Model 6.6, OpenGL 4.6 ³ , Vulkan 1.3 ³	
Compute APIs	CUDA 12.8, OpenCL 3.0, DirectCompute	

Ready to Get Started?

To learn more, visit: pny.com/nvidia-rtx-pro-5000-72gb-blackwell

1. Peak rates based on GPU Boost Clock.
2. Effective FP4 TOPS with sparsity.
3. Product is based on a published Khronos specification and is expected to pass the Khronos conformance testing process when available. Current conformance status can be found at www.khronos.org/conformance

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