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GPU-Optimized Computing Products

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GPU Software



Advanced HPC offers the industry's most complete line of nVidia Tesla GPU-powered servers, workstations, blades, appliances and clusters. To complement these systems, we also provide software packages designed to assist in CUDA development, ease the management of GPU systems and maximize the return on your GPU investment.



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The Exponential Growth of Computing






Accelerating scientific discovery, visualizing big data for insights, and providing smart services to consumers are everyday challenges for researchers and engineers. Solving these challenges takes increasingly complex and precise simulations, the processing of tremendous amounts of data, or training sophisticated deep learning networks. These workloads also require accelerating data centers to meet the growing demand for exponential computing.

NVIDIA Tesla is the world's leading platform for accelerated data centers, deployed by some of the world's largest supercomputing centers and enterprises. It combines GPU accelerators, accelerated computing systems, interconnect technologies, development tools, and applications to enable faster scientific discoveries and big data insights.

At the heart of the NVIDIA Tesla platform are the massively parallel GPU accelerators that provide dramatically higher throughput for compute-intensive workloads—without increasing the power budget and physical footprint of data centers.

Choose the Right NVIDIA Tesla Solution for You

WORKLOAD	Mixed-Workload HPC		Hyperscale HPC	Graphics Virtualization
USED BY	Supercomputing, Academia, Government	Oil and Gas	Artificial Intelligence/Deep Learning	Design and Manufacturing, Architecture Engineering and Constructions, Defense, Higher Education

OPTIMIZED FOR	Time to Insight	Imaging Accuracy	Training Time	Jobs/Second/Watt	Graphics Accelerated Virtual Desktops and Applications	
WORKLOAD PROFILE	Mixed workloads	Specific applications such as RTM	Deep learning frameworks such as Caffe and TensorFlow	Mixed inference workloads such as image, video, or data processing	Flexible deployments: user experience/graphics performance vs concurrent user density	
KEY REQUIREMENTS	<ul style="list-style-type: none"> > Performance (Double- and Single-Precision) > Memory Size and Bandwidth > Interconnect Bandwidth 		<ul style="list-style-type: none"> > Performance (Single-Precision) > Memory Size Per GPU > Interconnect Bandwidth 	<ul style="list-style-type: none"> > Power Footprint > Form Factor 	<ul style="list-style-type: none"> > Virtual graphics (vGPU) > Graphics accelerated applications delivered anywhere, on any device > Server form factor: Rack and Blade 	
RECOMMENDED SOLUTION	MIXED WORKLOADS K80 		TRAINING M40 	INFERENCE M4 	RACK FORM FACTOR M60 	BLADE FORM FACTOR M6 

To learn more about the NVIDIA Tesla platform of solutions visit www.nvidia.com/tesla

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NVIDIA Tesla K80 GPU Datasheet



NVIDIA Tesla M40 GPU Accelerator Datasheet



NVIDIA Tesla M4 GPU Accelerator Datasheet



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