



NVIDIA DGX-1 ESSENTIAL INSTRUMENT FOR AI RESEARCH

The Challenges of Building a Platform for AI

Data scientists depend on computing performance to gain insights and innovate faster, using the power of deep learning and analytics. GPU technology offers a faster path to AI, but building a platform goes well beyond deploying a server and GPU's.

AI and deep learning can require a substantial commitment in software engineering. An investment that could delay your project by months as you integrate a complex stack of components and software including frameworks, libraries, and drivers. Once deployed, additional time and resources are continually needed as you wait for the ever-evolving open source software to stabilize. You'll also be waiting to optimize your infrastructure for performance, along with administrative costs that increase as the system scales.

The Fastest Path to Deep Learning

Inspired by the demands of AI and data science, NVIDIA® DGX-1™ fast-tracks your AI initiative with a solution that works right out of the box so that you can gain insights in hours instead of months. With DGX-1 you can simply plug in, power up, and get to work, thanks to the integrated NVIDIA deep learning software stack. Now you can start deep learning training in as little as a day, instead of spending months integrating, configuring, and troubleshooting hardware and software.

Effortless Productivity

NVIDIA DGX-1 removes the burden of continually optimizing your deep learning software and delivers a ready-to-use, optimized software stack that can save you hundreds of thousands of dollars. It includes access to today's most popular deep learning frameworks, NVIDIA DIGITS™ deep learning training application, third-party accelerated solutions, the NVIDIA Deep Learning SDK (e.g. cuDNN, cuBLAS, NCCL), CUDA® toolkit, Docker Engine Utility for NVIDIA GPU.



SYSTEM SPECIFICATIONS

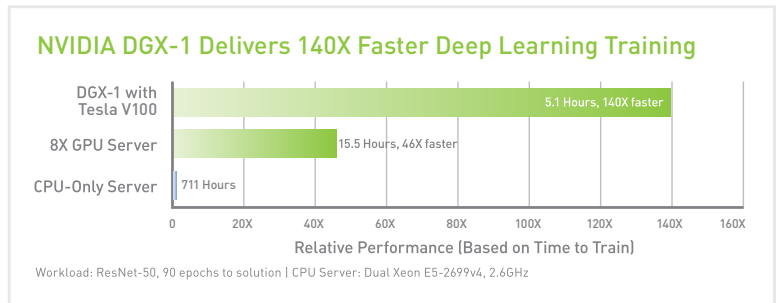
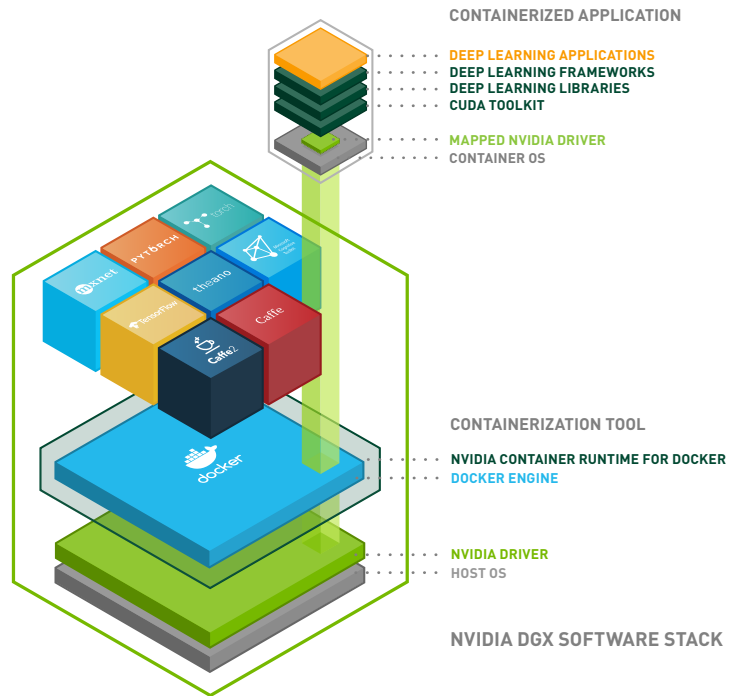
GPUs	8X Tesla V100
Performance (Mixed Precision)	1 petaFLOPS
GPU Memory	256 GB total system
CPU	Dual 20-Core Intel Xeon E5-2698 v4 2.2 GHz
NVIDIA CUDA® Cores	40,960
NVIDIA Tensor Cores (on V100 based systems)	5,120
Power Requirements	3,500 W
System Memory	512 GB 2,133 MHz DDR4 RDIMM
Storage	4X 1.92 TB SSD RAID 0
Network	Dual 10 GbE, 4 IB EDR
Software	Ubuntu Linux Host OS See Software Stack for Details
System Weight	134 lbs
System Dimensions	866 D x 444 W x 131 H (mm)
Packing Dimensions	1,180 D x 730 W x 284 H (mm)
Operating Temperature Range	5-35 °C

Revolutionary AI Performance

While many solutions offer GPU-accelerated performance, only NVIDIA DGX-1 unlocks the full potential of the latest NVIDIA GPU's like the NVIDIA Tesla® V100, including innovations like next generation NVLink™ and new Tensor Core architecture. With its performance-engineered deep learning software stack, DGX-1 delivers up to three times faster training speed than other GPU-based systems. With the computing capacity of 140 servers in a single system that integrates the latest NVIDIA GPU technology with the world's most advanced deep learning software stack, you can take advantage of revolutionary performance to gain insights faster than ever, powered by NVIDIA DGX-1.

Investment Protection

Your AI initiative is critical to your organization's success, and dependent on a frequently optimized software stack and integrated hardware infrastructure. With today's rapidly evolving open source software and the complexity of libraries, drivers, and hardware, it's good to know that NVIDIA's enterprise grade support and software engineering expertise are behind every DGX-1. This software stack is built on years of R&D, innovation, and deep learning expertise, and maintained by monthly optimized framework releases. Also, NVIDIA's support includes software upgrades and priority resolution of critical issues; you can have peace of mind that your environment is tuned for maximized performance and uptime.



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Purchase your Tesla V100 GPU accelerator today from Robovision. www.robovision.be/nvidia



Robovision is a company specialized in deep learning based machine vision and robot programming. Our specialists build on an experience of 10 years in machine vision and have built up in the last years an extensive portfolio of deep learning solutions for industry, agriculture and security. As part of our focus on the design, development and deployment of complete automation projects, we are an NVIDIA ELITE PARTNER.
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To learn more about the Tesla V100 visit www.nvidia.com/v100

