NVIDIA DGX-2H: Optimized for the Most Demanding Large Scale AI Workloads

NVIDIA® DGX-2H is an enhanced version of DGX-2 featuring faster Tesla V100 GPUs running at 450 watts per GPU and higher frequency CPUs built to deliver the highest performance in a dense system.

Performance to Train the Previously Impossible

NVIDIA DGX-2H is the world’s first 2.1 petaFLOPS system, powered by 16 of the world’s most advanced GPUs, accelerating the newest deep learning model types that were previously untrainable. With groundbreaking GPU scale, you can train models 4X bigger on a single node.

NVIDIA NVSwitch—A Revolutionary AI Network Fabric

Leading edge research demands the freedom to leverage model parallelism and requires never-before-seen levels of inter-GPU bandwidth. NVIDIA has created NVSwitch to address this need. Like the evolution from dial-up to ultra-high speed broadband, NVSwitch delivers a networking fabric for the future, today. With NVIDIA DGX-2H, model complexity and size are no longer constrained by the limits of traditional architectures. Embrace model-parallel training with a networking fabric in DGX-2H that delivers 2.4TB/s of bisection bandwidth for a 24X increase over prior generations. This new interconnect “superhighway” enables limitless possibilities for model types that can reap the power of distributed training across 16 GPUs at once.
AI Scale on a Whole New Level

Modern enterprises need to rapidly deploy AI power in response to business imperatives, and need to scale-out AI, without scaling-up cost or complexity. We’ve built DGX-2H and powered it with DGX software that enables accelerated deployment, simplified operations – at scale. DGX-2H delivers a ready-to-go solution that offers the fastest path to scaling-up AI, along with virtualization support, to enable you to build your own private enterprise grade AI cloud. Now businesses can harness unrestricted AI power in a solution that scales effortlessly with a fraction of the networking infrastructure needed to bind accelerated computing resources together. With an accelerated deployment model, and an architecture purpose-built for ease of scale, your team can spend more time driving insights and less time building infrastructure.

Enterprise Grade AI Infrastructure

If your AI platform is critical to your business, you need one designed with reliability, availability and serviceability (RAS) in mind. DGX-2H is enterprise-grade, built for rigorous round-the-clock AI operations, and is purpose-built for RAS to reduce unplanned downtime, streamline serviceability, and maintain operation continuity.

Spend less time tuning and optimizing and more time focused on discovery. NVIDIA’s enterprise-grade support saves you from the time-consuming job of troubleshooting hardware and open source software. With every DGX system, get started fast, train faster, and remain faster with an integrated solution that includes software, tools and NVIDIA expertise.

Interested in learning more about NVIDIA DGX-2H? Please contact your NVIDIA team for more information.

For more information, visit www.nvidia.com/DGX-2

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