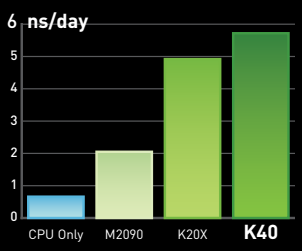
UPGRADE TO THE WORLD'S FASTEST GPU ACCELERATOR. NVIDIA® TESLA® K40

PNY Technologies
Part Number: TCSCK40KIT

Count on NVIDIA Tesla K40 GPU Accelerators to solve your most demanding HPC and big data challenges. They feature 1.4 TFLOPS performance, 12 GB memory, and ultra-fast 288 GB/s throughput, giving you the power to process large datasets while delivering up to10X acceleration compared to CPUs.

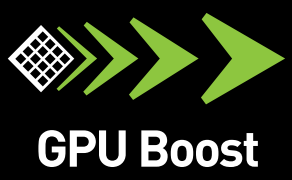
FASTEST SIMULATIONS

Accelerates results with 1.4 TF of throughput, 2,880 CUDA cores, and 288 GB/s bandwidth



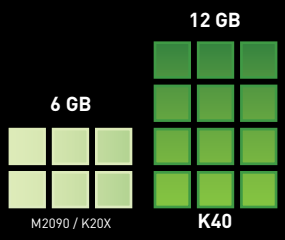
HIGHEST PERFORMANCE

Unlocks extra application performance with NVIDIA GPU Boost technology



LARGEST DATASET ACCESS

Ideal for fluid dynamics simulations, seismic analysis, and rendering applications



Why Upgrade?

Using the Tesla K40 GPU, applications run up to 40% faster than the previous-generation Tesla K20X and 280% faster than the Tesla M2090.

Features and Benefits

NVIDIA GPU Boost™: On-demand performance boost to attain up to 25% additional application speedup

Streaming Multiprocessor (SMX): Perform 3X the workload with the same power budget.

NVIDIA Kepler™ Architecture: Accelerate all your applications with the world's fastest, most efficient HPC architecture.

ECC Memory: Address a critical requirement for computing accuracy and reliability in supercomputing and data centers.

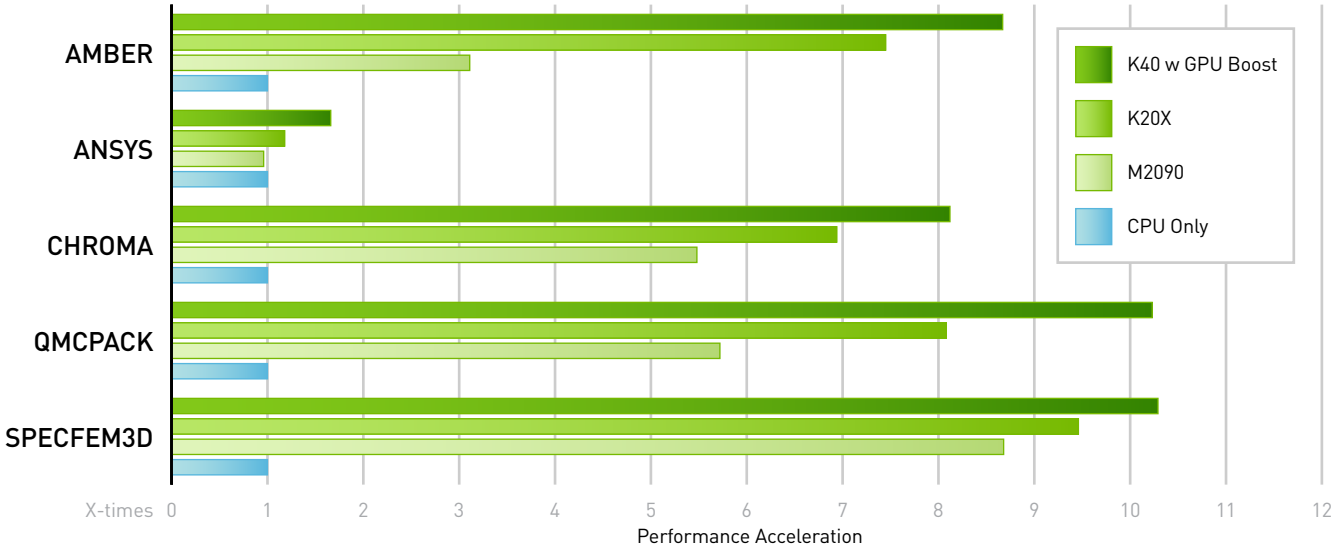
System Monitoring Features: Manage GPU processors in computing systems using widely used cluster/grid-management solutions.

Test Drive Tesla K40

Experience the acceleration for yourself by trying the Tesla K40 free.
www.nvidia.com/gputestdrive#s=1

APPLICATION PERFORMANCE

The NVIDIA Tesla K40 delivers up to 10x application performance compared to CPUs and up to 2.8x speed up compared to Tesla M2090.



Dual E5-2687W, 16 Cores, 3.1GHz. 64GB DDR3, ECC On. CentOS 6.2 x86_64.

Top GPU-Accelerated Applications

MOLECULAR DYNAMICS	QUANTUM CHEMISTRY	DEFENSE	MATH/PHYSICS	MEDIA & ENTERTAINMENT
> AMBER	> GAMESS	> Intuvision Panoptes 3.0	> Chroma	> Autodesk 3ds Max
> CHARMM	> LAMMPS	> Intergraph Motion Video Analyst	> MATLAB	> Adobe Photoshop
> GROMACS	> QMC PACK	> GeoWeb3d Desktop	> MILC	> Adobe Premier
> NAMD	> TeraChem	> Luciad	> ENZO	> Sony Vegas Pro
FLUID DYNAMICS	**STRUCTURAL MECHANICS**	**VISUALIZATION & DOCKING**	**COMPUTATIONAL FINANCE**	**ELECTRONIC DESIGN AUTOMATION**
> ANSYS Fluent	> ANSYS Mechanical	> VMD	> Murex MACS	> Agilent EMPro
> OpenFOAM	> Abaqus/Standard	> FastROCS	> NAG (Numerical Algorithms Group)	> CST Microwave Studio

To see the complete list of more than 270 GPU-accelerated applications, visit **www.nvidia.com/teslaapps**

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