



NVIDIA[®] Tesla[™] Workstation

NVIDIA[®] Tesla[™] Workstation Intel[®] Xeon[™]



The NVIDIA[®] Tesla[™] C1060 transforms a workstation into a high-performance computer that outperforms a small cluster. This gives technical professionals a dedicated computing resource at their desk-side that is much faster and more energy-efficient than a shared cluster in the data center. The Tesla C1060 is based on the massively parallel, many-core Tesla processor, which is coupled with the standard CUDA C programming environment to simplify many-core programming.

Parallel performance from 240 cores capable of concurrent execution of thousands of computing threads and scalable architecture meets computational demands of applications whose complexity has outstripped the CPU's ability to solve them.



Highlights

- > C Programming language
- > High Density - Up to 0.92 teraflops (936 Gigaflops) in PCIe form factor
- > Up to 240 cores and 4 GB memory
- > Up to 100 GB/s bandwidth
- > IEEE 754 single & double precision floating-point
- > Asynchronous Data Transfer
- > Intel Core 2 or Dual Intel Xeon 5400 processor
- > Microsoft Windows and Linux development tools

Processor:

- > Up to three NVIDIA Tesla C1060 cards @ 1.3 GHz
- > 240 cores per card, 720 cores maximum
- > 1 Intel Core 2 Duo / Quad processor or up to two Intel Xeon 5400 processors
- > NVIDIA Tesla C870 & NVIDIA Tesla D870 also available on request
- > Intel 5400 Express Chipset

Performance:

- > Support for IEEE 754 single & double precision floating point
- > Single Precision floating point performance (peak) : 933 Gigaflops per GPU
- > Double Precision floating point performance (peak) : 78 Gigaflops per GPU

GPU Memory:

- > 4GB per GPU, 12 GB maximum
- > 512-bit GDDR3 memory interface

System Memory:

- > Up to 16GB DDR2 system memory (RAM)

Chassis:

- > Tower Chassis
227mm x 536mm x 584mm (W x H x D)
9" x 21" x 23"

Power Supply:

- > 600 W power supply

Operating System:

- > Microsoft Windows
- > Linux

Host System Configuration:

- > One Intel Core 2 Duo / Quad or Two Intel Xeon 5400 processors
- > Up to 16 GB DDR2 memory
- > Intel® High Definition Audio subsystem, 8-channel (7.1) Dolby Home Theater audio subsystem
- > 1 Gigabit Ethernet LAN port
- > 10 USB ports
- > 6 SATA ports
- > 2 IEEE 1394 Firewire ports

System Operation Environment:

- > Operating Temperature Range: 10 - 35°C
- > Non-Operating Temperature Range: -40 - +60°C
- > Humidity Range: 8 - 90% non-condensing

Service and Support:

- > Two years standard parts and labor warranty
- > Optional on-site maintenance and support services available

Ideal For:

- > Medical Imaging
- > Oil & gas exploration
- > Computational Finance
- > Weather Modeling
- > Drug Design
- > Computational Fluid Dynamics

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