

Data Sheet

Fujitsu PRIMERGY NVIDIA C2075 GPGPU

PRIMERGY server meet requirements for HPC GPGPU clusters

With the ever-increasing demand for more computing performance, systems based on CPUs alone can no longer keep up. The CPU-only systems can only get faster by adding thousands of individual computers – this method consumes too much power and makes supercomputers very expensive. A different strategy is parallel computing, and the HPC industry is moving toward a hybrid computing model, where GPUs and CPUs work together to perform general purpose computing tasks.

As parallel processors, GPUs excel at tackling large amounts of similar data because the problem can be split into hundreds or thousands of pieces and calculated simultaneously.

PRIMERGY NVIDIA C2075 GPGPU

The NVIDIA® Tesla® C2075 companion processor is built for GPU computing and makes supercomputing accessible to all users. It features 448 application-acceleration cores per board, dramatically increasing performance compared to a traditional server.

Through the 448 application-acceleration cores per board, Tesla processors offload parallel computations from the CPU to dramatically accelerate the floating point calculation performance. By adding a Tesla processor, engineers, designers, and content creation

professionals accelerate some of the most complex tools exponentially faster than by adding a second CPU. It's an unbeatable solution for getting more done in less time.

Take advantage of the newest analysis, simulation, and rendering tools within industry-leading applications and see results in as little as half the time. Tesla C2075 companion processors deliver parallel processing power right at the desk, capable of streamlining the way users work every day. This means you can now explore, discover and deliver higher-quality projects faster than you ever thought possible.



Main Features	Benefits
<ul style="list-style-type: none"> ■ 448 CUDA Cores 	<ul style="list-style-type: none"> ■ Tesla C2075 delivers up to 515 Gigaflops of double-precision peak performance in each GPU, enabling a single workstation to deliver a Teraflop or more of performance.
<ul style="list-style-type: none"> ■ ECC Memory 	<ul style="list-style-type: none"> ■ Meets a critical requirement for computing accuracy and reliability for workstations. Offers protection of data in memory to enhance data integrity and reliability for applications. Register files, L1/L2 caches, shared memory, and DRAM all are ECC protected.
<ul style="list-style-type: none"> ■ UP TO 6GB OF GDDR5 MEMORY PER GPU 	<ul style="list-style-type: none"> ■ Maximizes performance and reduces data transfers by keeping larger data sets in local memory that is attached directly to the GPU.
<ul style="list-style-type: none"> ■ HIGH SPEED, PCIe GEN 2.0 DATA TRANSFER 	<ul style="list-style-type: none"> ■ Maximizes bandwidth between the host system and the Tesla processors. Enables Tesla products to work with virtually any PCIe-compliant host system with an open PCIe x16 slot.
<ul style="list-style-type: none"> ■ Passive heat sink 	<ul style="list-style-type: none"> ■ Ensures whisper-like operation and reliable cooling

Technical details

Technical details

Graphics brand name	NVIDIA® Tesla™ C2075
Graphic card category	GPU computing card
Graphics cores	448 cores
Graphics memory size	6 GB GDDR5 with ECC
Graphics memory speed	1.5 GHz
Graphics memory interface	384-bit
Graphics memory bandwidth	144 GB/sec
Power consumption	225 Watt
Graphic slot	PCIe Gen2 x16
Graphics card notes	To be used for CPU acceleration in HPC environments, no graphic output

Order code	Formfactor
S26361-F2856-E997	Full height (double slot density)

Environmental

Power consumption	225 Watt
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Compliance

Germany	GS
Europe	CE EN
USA/Canada	FCC Class B
Compliance notes	According to the corresponding system
Compliance link	http://sp.ts.fujitsu.com/sites/certificates/

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY NVIDIA C2075 GPGPU, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY NVIDIA C2075 GPGPU, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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