



999.00 EUR
incl. 19% VAT, plus [shipping](#)

Special offer. New/unused item.

Key Features

- 560 MHz Core - Boostable to 876 MHz
- 4992 CUDA Cores
- 24GB GDDR5 vRAM
- 10 GHz Effective Memory Clock

Built on two Kepler GPUs, the NVIDIA Tesla K80 GPU Accelerator is intended for use in servers and supercomputers. The K80 is a dual GPU unit which utilizes two GK210B chipsets. As a unit this card offers a total of 4992 CUDA cores clocked at 560 MHz coupled to 24GB of GDDR5 vRAM with a 384-bit memory interface and a 480 GB/s bandwidth. This card features no outputs for displays, it is designed to serve as a hardware accelerator using the CUDA cores in the GPU. Its CUDA cores are arranged using NVIDIA's Kepler architecture. Using compatible APIs, software can leverage the massively parallel processing abilities. Projects that can take advantage of the parallel processing include computational fluid dynamics and structural mechanics, numeral analytics, and molecular dynamics.

While the GPU by default runs at 560 MHz, it can be boosted up to 875 MHz to greatly increase processing power. This boost is initiated when the card is under load and there is enough temperature overhead to allow the card to use more power. Because this card is built to be used in servers, it features passive heatsink cooling which relies on the airflow and cooling present in a server structure. The passive heatsink is silent and increases reliability because it contains no moving parts.

GPU	2 x Kepler GK210
CUDA Cores	4992
Core Clock Speed	Base: 560 MHz Boost: 562 to 875 MHz
Memory	24 GB GDDR5
Memory Interface	384-bit
Memory Clock	2.5 GHz 10 GHz Effective at QDR
Memory Bandwidth	480 GB/s
Memory Configuration	48 pieces of 256M x 16 SDRAM
Floating Point Performance	Peak Single Precision: 5.6 to 8.74 TFLOPS Peak Double Precision: 1.87 to 2.91 TFLOPS
Outputs	None
Power Connectors	8-pin CPU power connector
Power Consumption	300 W
Operating Temperature	32 to 113°F / 0 to 45°C
Storage Temperature	-40 to 167°F / -40 to 75°C
Operating Humidity	5 to 90% RH
Storage Humidity	5 to 90% RH

Dimensions

Length: 10.5" / 267 mm Height: 4.4" / 111.2 mm Width: Dual Slot