



AIME T400 -Workstation

The perfect workstation for Deep Learning development. Own the power of 4 GPUs directly under your desk.

Its liquid-cooling whisper-silent technology makes it suitable for use in office environments. Train your Tensorflow models with upto 4 times the speed of single GPU.

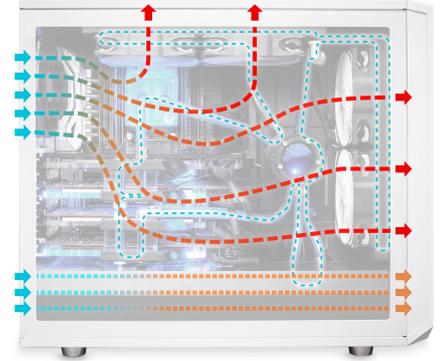
Gives you more then 400 Trillion Tensor FLOPS of AI performance!

AIME T400 - Liquid Cool Deep Learning Performance

The elaborated cooling system of the AIME T400 covers the CPU and all GPUs with a stream of liquid cooling. High thermal conduction blocks and the far higher cooling capabilities of liquid compared to air keeps the operation temperature of all components well below 60°C.

The secured low operation temperature reduces stressful overheating for GPU and CPU silicons and allows that all components keep operating at their highest performance levels even under full load in 24/7 scenarios.

The large radiators in the front and on top of the system are cooled by high durability noise reduced fans with a guaranteed operation of more than 10 years MTBF. This setup keeps the system cooler, more performant, durable and far less noisy than an collection of many small fans for each component.



Well Balanced Components

All of our components have been selected for their energy efficiency, durability, compatibility and high performance. They are perfectly balanced, so there are no performance bottlenecks. We optimize our hardware in terms of cost per performance, without compromising endurance and reliability.



4 times NVIDIA RTX 2080 TI - Turing Power

The liquid cooled GPUs allow a higher packing of GPUs, with the AIME T400 up to 4 high-end GPUs can be packed in a system with the dimensions of a standard midi tower.

The AIME T400 relies on liquid cooled NVIDIA RTX 2080 TI GPUs, the best price performance GPU for Deep Learning.

Each NVIDIA RTX 2080 TI trains AI models with 544 NVIDIA Turing mixed-precision Tensor Cores delivering 107 Trillion Tensor FLOPS of AI performance and 11 GB of ultra-fast GDDR6 memory.

Supported by NVIDIA's CUDA-X AI SDK, including cuDNN, TensorRT, and more than 15 other libraries. Which works with all popular deep learning frameworks.

With the AIME T400 you can combine the power of 4 of those adding up to more than 400 Trillion Tensor FLOPS of AI performance.

Threadripping CPU Performance

The high-end AMD Threadripper CPU designed for workstations and servers delivers up to 32 cores with a total of 64 threads per CPU with an unbeaten price performance ratio.

The available 64 PCI 3.0 lanes of the AMD Threadripper CPU allow highest interconnect and data transfer rates between the CPU and the GPUs.

A large amount of available CPU cores can improve the performance dramatically in case the CPU is used for preprocessing and delivering of data to optimal feed the GPUs with workloads.

Up to 4TB High-Speed SSD Storage

Deep Learning is most often linked to high amount of data to be processed and stored. A high throughput and fast access times to the data are essential for fast turn around times.

The AIME R410 can be configured with two NVMe SSDs, which are connected by PCI lanes directly to CPU and main memory. We offer following 3 class types of SSD to be configured:

- **QLC-Typ:** high read rates, average write speed - best suitable for reading of static data libraries or archives
- **TLC-Typ:** highest read and high write speed - best suitable for fast read/write file access
- **MLC-Typ:** highest read and write speed - best suitable for high performance databases, data streaming and virtualization



Tested with Real Life Deep Learning Applications

The AIME T400 was first designed for our own deep learning application needs and evolved in years of experience in deep learning frameworks and customized PC hardware building.

Start Right Out Of The Box

Our machines come with preinstalled Linux OS configured with latest drivers and frameworks like Tensorflow, Keras, PyTorch and mxnet. Just login and start right away with your favourite DeepLearning framework.

Technical Details

Type	Mid Tower Workstation
CPU (konfigurierbar)	Threadripper 1920X (12 cores, 4 GHz) Threadripper 1950X (16 cores, 4 GHz) Threadripper 2920X (12 cores, 4.3 GHz) Threadripper 2950X (16 cores, 4.3 GHz) Threadripper 2970X (24 cores, 4.2 GHz) Threadripper 2990X (32 cores, 4.2 GHz)
RAM	64 or 128 GB
ECC	optional
GPU Options	2 bis 4 NVIDIA RTX 2080 TI
Cooling	CPU and GPU liquid cooled Low noise radiator fans > 100000h MTBF
Memory	Upto 2 X 2TB NVMe SSD
Configuration-Options	QLC: 1500 MB/s read, 1000 MB/s write TLC: 3500 MB/s read, 1750 MB/s, write MLC: 3500 MB/s read, 2700 MB/s write
Network	2 x 1000 MBit LAN
USB (front)	1 x USB Type-C™ port with USB 3.1 Gen 1 2 x USB 3.1 Gen 1 ports (front) 1 x USB Type-C™ USB 3.1 Gen 2 1 x USB 3.1 Gen 2 Type-A 6 x USB 3.1 Gen 1
PSU	1600 Watt power 80 PLUS Titanium certified (96% efficiency)
Noise-Level	Idle < 30dBA, Full Load < 40dBA
Dimensions (WxHxD)	233 x 465 x 538 mm
Price	from 6.899,00 € incl. MwSt.

