



AIME T502 -Workstation

The perfect workstation for getting started with deep learning development.

Train your Tensorflow and Pytorch models with 2 times the performance of single GPU.

Gives you more than 500 Trillion Tensor FLOPS of AI performance!

AIME T502 - Deep Learning Performance Workstation

The cooling system of the AIME T502 is designed for maximum air intake supported by powerful and temperature controlled high air flow fans. The CPU is cooled by a closed AIO water loop to reduce its impact as additional heat source.

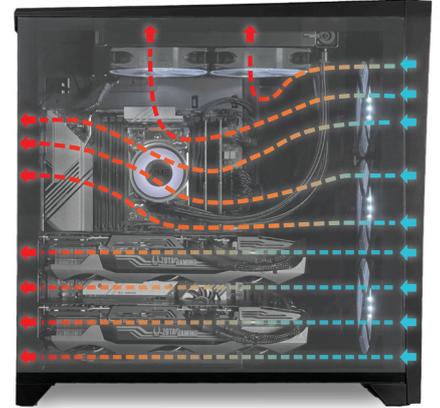
This prevents overheating of the powerful GPUs and maintain high performance under full load in 24/7 scenarios.

Ryzen CPU Performance

The fastest and efficient Desktop CPU: the AMD Ryzen series delivers up to 12 cores with a total of 24 threads per CPU with an unbeaten price performance ratio.

The available PCI 4.0 lanes of the AMD Ryzen 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.



Double NVIDIA RTX 3090 - Ampère Power

Due to the air cooling concept a high packing of GPUs is possible: With the AIME T502 2 high-end GPUs can be packed into a system with the dimensions of a standard midi tower.

The AIME T502 relies on NVIDIA RTX 3080/3090 GPUs, the best price performance GPUs for Deep Learning.

Each NVIDIA RTX 3090 trains AI models with 10496 CUDA cores and 328 tensor cores of the third generation and 24 GB of ultra-fast GDDR6X memory. The AIME T502 combines the power of 4 of those adding up to more than 4000 Trillion Tensor FLOPS of AI performance.

Alternatively, the AIME T502 is available with 2 NVIDIA RTX 3080 GPUs which are equipped with 10 GB of ultra-fast GDDR6X memory and 8704 CUDA cores each.

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

Up to 8 TB 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 T502 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

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.



Tested with Real Life Deep Learning Applications

The AIME T500 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 the latest drivers and frameworks like Tensorflow, Keras, PyTorch and mxnet. Just login and start right away with your favourite Deep Learning framework.

Technical Details

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|--------------------|---|
| Type | Mid Tower Workstation |
| CPU Options | AMD Ryzen 5 3600XT (6 cores, 4.5 GHz) AMD Ryzen 5 5600X (6 cores, 4.6 GHz) AMD Ryzen 7 3800XT (8 cores, 4.5 GHz) AMD Ryzen 7 5800X (8 cores, 4.7 GHz) AMD Ryzen 9 3900XT (12 cores, 4.7 GHz) AMD Ryzen 9 5900X (12 cores, 4.8 GHz) |
| RAM | 64 to 128 GB |
| GPU Options | 2x NVIDIA RTX 3080 10 GB 2x NVIDIA RTX 3090 24 GB |
| Cooling | CPU AIO liquid cooled GPU high air flow cooled 5x Low noise radiator fans > 100000h MTBF |
| Memory | Upto 2x 4TB NVMe SSD |
| SSD-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 | 1 GBit LAN |
| USB | 1 x USB Type-C™ port with USB 3.1 Gen 1 (front) 2 x USB 3.0 ports (front) 1 x USB 3.2 Gen 2 Type-C™ 1 x USB 3.2 Gen 2 Type-A 6 x USB 3.2 Gen 1 |
| PSU | 1200 Watt power 80 PLUS Platinum certified (94% efficiency) |
| Noise-Level | Idle < 30dBA, Full Load < 50dBA |
| Dimensions (WxHxD) | 270 x 465 x 476 mm |
| Price | from 4.299,00 € excl. VAT. |

