



# Scaling Boundaries, Not Budgets

# **Unlock Large Model Training**

Until aiDAPTIV+, small and medium-sized businesses have been limited to small, imprecise training models lacking the ability to scale beyond Llama-2 13B. MiPhi's aiDAPTIV+ solution enables significantly larger training models, giving you the opportunity to run workloads previously reserved for data-centers

## **Hybrid Solution Boosts LLM Training Efficiency**

MiPhi's aiDAPTIV+ is a hybrid software / hardware solution for today's biggest challenges in LLM training. A single local workstation or server from one of our partners provides a cost-effective approach to LLM training, up to Llama-3 70B and Falcon 180B.

# **Product Features**



#### **Ease of Use and Deployment**

Spend your time training your data, not yourself or your engineers to set up and familiarize with an aiDAPTIV+ system.



#### **Cost and Accessibility**

aiDAPTIV+ leverages cost-effective NAND flash to increase access to large-language model (LLM) training with commodity workstation hardware.



#### **Security and Data Privacy**

aiDAPTIV+ workstations will help you retain control of your data and keep it on premises.



#### **Supported Models**

- Llama, Llama-2, Llama-3, CodeLlama
- Vicuna, Falcon, Whisper, Clip Large
- Metaformer, Resnet, Deit base, Mistral, TAIDE
- And Many More Coming Soon



#### Workstation **aiDAPTI** Single node 4x GPU configuration comparing GPU and GPU + 5 **GPU Only** 4.41 **Fraining Time (Hours)** aiDAPTIV<sup>†</sup> 3 **System Configuration** RAM: 512 GB • GPU: 4x RTX 6000 ada • GDDR: 192 GB 0.74 **FAIL** 1 0.42 0.42 Note: Scaling is linear 0 based on GPU count Llama - 27B Llama - 2 13B Llama - 2 70B and model size 1400 GB Model Size (Training) 140 GB 260 GB HBM Pool (Usage%) 192 GB (73%) 192 GB (120%) 192 GB (729%) Minimum GPU Count 4/6 4/30 4/4





### **Drop-in solution for PyTorch**

Experience seamless integration with the benefits offered by this system. It features a transparent drop-in function that eliminates the need to modify your AI application. You can effortlessly reuse existing hardware or add nodes as needed. System integrators have access to AI100E SSD, middleware librarylicenses, and full MiPhi support to facilitate smooth system integration.

## **Seamless Integration with GPU Memory**

The optimized middleware extends GPU memory capacity by utilizing 2x 2TB aiDAPTIVCache to support a 70B model with low latency. Additionally, thehigh endurance feature offers an industry-leading 100 DWPD, utilizing SLC NAND with an advanced NAND correction algorithm.





The data within this specification is subject to change by Miphi without notice.

Performance numbers may vary based on system configuration and testing conditions.

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