



# Lambda Vector

Dual GPU deep learning desktop PC with AMD Ryzen™ Threadripper™ processor



[Configure your Vector](#) ↗



## TECHNICAL SPECIFICATIONS

### GPU DETAILS

2x NVIDIA® RTX™ 4500 Ada Generation or RTX 5000 Ada Generation GPUs

### PROCESSOR

AMD Ryzen™ Threadripper™ & Threadripper™ PRO

### SYSTEM RAM

128 GB to 512 GB DDR5

### STORAGE

OS - Up to 3.84 TB M.2 (NVMe)  
Data - Up to 2x 3.84 TB M.2 (NVMe) + 1x 30.72 TB U.2 (NVMe)

### NETWORK INTERFACE

1x Marvell® AQtion 10Gb Ethernet  
1x Intel® I226-LM 2.5Gb Ethernet

### Unparalleled quietness meets unmatched power

The Lambda Vector revolutionizes the AI development workspace by seamlessly integrating dual NVIDIA® RTX™ 4500 Ada Generation or RTX 5000 Ada Generation GPUs with a substantial 420mm AIO for the CPU, mounted prominently in the front with three 140mm fans, each 30mm thick. This front-mounted cooling solution not only ensures silent operation but also guarantees efficient heat dissipation, keeping the system cool without compromising performance. Even during the most intensive AI model training sessions, this configuration maintains a quiet environment, allowing you to focus without disturbance.

### Designed for AI/ML perfection

With extensive research and expertise poured into AI/ML system configuration, we've eliminated the complexity of manual setups, offering pre-tuned peak performance straight out of the box. Augmented by a one-year hardware warranty—extendable to three years—and optional dedicated technical support for Ubuntu and all pre-installed ML frameworks and drivers, it offers not just superior capabilities but peace of mind.

### Elevating your AI endeavors

Engineered to keep you ahead in the AI research and development race, the Lambda Vector boasts dual NVIDIA® RTX™ 4500 Ada Generation or RTX 5000 Ada Generation with up to 32 GB of VRAM each. Prepared to excel in advanced AI and ML tasks, this system ensures seamless, efficient computations for groundbreaking results, from fine-tuning sophisticated models to training the next generation of AI technologies.

### Ready for AI exploration from day one

The Lambda Vector stands as more than a computer; it's a gateway to accelerating your AI projects. Equipped with all the essential software needed for neural network training from the get-go, it ensures you're set to start your AI journey immediately. Embrace the future of AI development with the Vector, where unmatched power, precision, and peace of mind merge to create the ultimate environment for AI professionals.



# Lambda Vector

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**GPU**

2x NVIDIA® RTX™ 4500 Ada Generation or  
RTX 5000 Ada Generation GPUs

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**CPU**

AMD Ryzen™ Threadripper™ 7960X (24 cores, 4.2 GHz)  
AMD Ryzen™ Threadripper™ Pro 7975WX (32 cores, 4.0 GHz)  
AMD Ryzen™ Threadripper™ Pro 7985WX (64 cores, 3.2 GHz)  
AMD Ryzen™ Threadripper™ Pro 7995WX (96 cores, 2.5 GHz)

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**MEMORY**

128 GB to 512 GB DDR5 RDIMM 4800 MHz  
4 DIMM slots

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**MOTHERBOARD**

ASUS Pro WS TRX50-SAGE WIFI 6E

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**STORAGE**

OS storage: Up to 3.84 TB (NVMe)  
Extra storage: Up to 1× 30.72 TB (NVMe) + 2× 3.84 TB (NVMe)

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**POWER SUPPLY**

1600W 80 Plus Titanium ATX 3.0 power supply

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**NETWORKING**

1 x Marvell® AQtion 10Gb RJ45 Ethernet  
1 x Intel® I226-LM 2.5Gb RJ45 Ethernet  
1 x AMD WiFi 6E + Bluetooth 5.3

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**FORM FACTOR**

Full tower desktop

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**DIMENSIONS**

Desktop:  
W 9.5" x H 22.8" x D 22.0" (W 240mm x H 580mm x D 560mm)

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**INPUT/OUTPUT**

Front panel:

- 1x USB 3 Type-C 10Gbps
- 2x USB 3 Type-A 5Gbps
- 2x USB 2 Type-A
- Microphone/Headphone Combo
- Reset Button
- Power Button

Rear panel:

- 1 x USB 3 Type-C 20Gbps
  - 6 x USB 3 Type-A 10Gbps
  - 2 x USB 2 Type A
  - 1 x 10Gb RJ45 Ethernet
  - 1 x 2.5Gb RJ45 Ethernet
  - 2 x Audio jack
  - Optical S/PDIF out
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**COOLING**

Liquid cooling for CPU:

- CPU: 420mm AIO with 3× 140mm 30mm thick fans
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**SOFTWARE**

Ubuntu Linux  
Lambda Stack with CUDA, cuDNN, TensorFlow, PyTorch, Keras  
Windows 11 Pro

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**COMPLIANCE**

RoHS Compliant  
TAA Compliant  
PSU: 80 Plus Titanium, CE mark

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**WARRANTY & SUPPORT**

Up to 3 years of hardware coverage, plus technical support from Lambda engineer