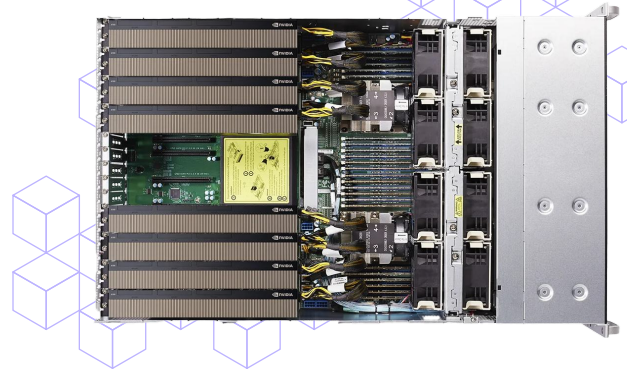




Lambda Scalar 4U

8 NVIDIA® H100 Tensor Core PCIe GPUs with NVLink®



[Configure your Scalar](#) ↗



TECHNICAL SPECIFICATIONS

GPU DETAILS

Up to 8 NVIDIA H100 NVL Tensor Core GPUs (94GB PCIe Gen5)

PROCESSOR

2x AMD EPYC™ or Intel Xeon® processors

SYSTEM RAM

Up to 8 TB DDR5

STORAGE

Up to 8x 30.72 TB NVMe

NETWORK INTERFACE

Expandable with NVIDIA InfiniBand NDR 400 Gb/s NICs

Up to 8 H100 PCIe GPUs deliver 24 petaFLOPS of performance

Eight NVIDIA H100 NVL GPUs interconnected with NVLinks allow the Scalar 4U to serve up to 24 petaFLOPS of FP8 performance for unprecedented acceleration of today's most demanding AI tasks. Also configurable with various NVIDIA professional and datacenter GPUs including the RTX 6000 Ada Generation and L40S.

Engineered for your workflow and workloads

With Lambda servers, you get the world's best compute hardware backed by the expertise of experienced AI engineers. You get a total system designed, optimized, and ready to use for your specific deep learning workloads.

Enterprise-class support

Focus on research and development, not Linux system administration and hardware troubleshooting. Lambda takes care of the details, providing optional parts depots in your data center as well as on-site parts replacement services to minimize downtime.

Pre-installed with the software you need

Each Lambda machine is pre-installed with Lambda Stack, which includes everything you need to start training neural networks.





Lambda Scalar 4U

GPU

Supports 8 full-length double-width PCIe 3.0/4.0 x16 cards with dual GPU NVLink interconnect
NVIDIA® H100 NVL, L40S, RTX 6000 Ada Generation, RTX 5000 Ada Generation, RTX 4500 Ada Generation, RTX 4000 Ada Generation

CPU

2x AMD EPYC or Intel Xeon Processors
•AMD EPYC 9004 (Genoa) Series Processors with up to 192 cores total
•Intel Xeon 4th Gen (Sapphire Rapids) Scalable Processors with up to 112 cores total
* server specifications are the same for both AMD and Intel processors

MEMORY

AMD:
384 GB to 6 TB DDR5
24 DIMM slots

Intel:
256 GB to 8 TB DDR5
32 DIMM slots

At least 1.5 TB of RAM recommended for 8x H100 NVL

POWER SUPPLY

Up to 4x n+n redundant 2700W 80 Plus power supplies

STORAGE

Up to 8x 30.72 TB NVMe hot-swap U.2 bays
Up to 8x 7.68 TB SATA hot-swap 2.5" drives

NETWORKING

Integrated 2x 10 GbE RJ45
Optional: Up to 1x NVIDIA ConnectX-7 InfiniBand/Ethernet 400 Gb/s PCIe NIC (dual-port)

IPMI

IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

FORM FACTOR

4U Rackmount with Rackmount Kit (assembly required)

INPUT/OUTPUT

2x 10 GbE RJ45 LAN ports
1x 1 GbE RJ45 Dedicated IPMI LAN port
2x USB 3.0 ports
1x VGA connector

SOFTWARE

Ubuntu
Lambda Stack with CUDA, cuDNN, TensorFlow, PyTorch, Keras

DIMENSIONS

H 7.0" x W 17.2" x D 29" (H 178mm x W 437mm x D 737mm)

COMPLIANCE

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

SYSTEM POWER

200V and above required
Cables: 6x PWCD, US/EU/Canada/China/Australia, IEC60320 C14 TO C13, 4FT

OPERATING CONDITIONS

10°C ~ 35°C (50°F ~ 95°F) and 8% to 90% humidity
Non-operating: -40°C to 60°C (-40°F to 140°F) and 5% to 95% humidity

WARRANTY & SUPPORT

Up to 5 years of hardware coverage, plus technical support from Lambda engineer