

Lambda Quad AMD

4-GPU Deep Learning
Workstation + Threadripper™



A deep learning GPU cluster — on your desk

The Lambda Quad supports up to 4x Quadro RTX 8000 GPUs with 48 GB of dedicated VRAM per GPU. Additionally, with high speed GPU-to-GPU communication supported via NVLink multi-GPU training becomes even faster.

Optimized configurations to avoid throttling

We optimize every Lambda machine to maximize airflow and reduce excess heat build-up. Even during the largest training runs Lambda machines avoid excess heat, while staying quiet enough for an office environment.

Supporting you every step of the way

Our engineers work with you to configure machines to your exact specifications. In addition, every Lambda machine includes a one year warranty covering hardware and technical support with the option to upgrade to three years.

Pre-installed with the software you need

Each Lambda Quad is pre-installed with the Lambda Stack which includes everything you need to get started training neural networks.



Configure up to

4x

GPUs

256 GB

RAM

4 TB

NVMe

50+ TB

SATA

Questions?: call (866) 711-2025, email enterprise@lambdalabs.com, or visit lambdalabs.com

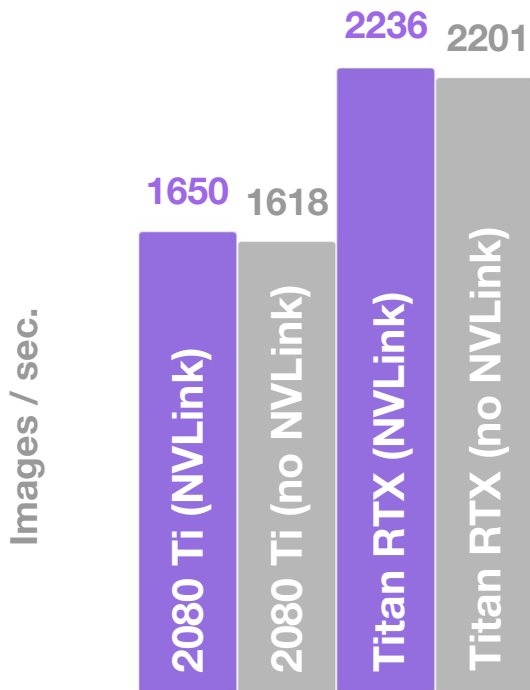


(ES) Equipements Scientifiques SA - Département Modules & Systèmes Informatiques - 127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 80 - Fax. 01 47 01 16 22 - e-mail: msi@es-france.com - Site Web: www.es-france.com



Image Classification

ResNet50 (FP16)



4x GPU Configurations

How does NVLink help?

With the Lambda Quad, GPUs can be NVLinked into two separate pairs. Connecting cards via NVLink enables direct GPU-to-GPU communication over a higher bandwidth channel than PCIe x16.

The improved bandwidth is most noticeable during distributed training when GPUs must consolidate results at the end of each step. In the graph above you can see an improvement in performance when training ResNet50 with 2080 Ti and Titan RTX GPUs connected via NVLink.

Configure your workstation

<https://lambdalabs.com/deep-learning/amd-workstations/4-gpu>

STANDARD SYSTEM SPECIFICATIONS

GPU	4x NVIDIA 2080 Ti Upgrade to RTX 6000, RTX 8000 with NVLink
OS	Ubuntu 20.04 Incl. deep learning frameworks and CUDA drivers
CPU	Threadripper 3960X (24 Cores, 3.80 GHz) Upgrade to AMD Threadripper 3990X (64 Cores, 2.90 GHz)
Motherboard	ASROCK TRX40 Creator
RAM	64 GB Upgrade to 256 GB
OS Storage	2 TB NVMe SSD Upgrade to 2x 2 TB NVMe M.2 SSD
Add'l Data Storage	No Add'l Storage Upgrade to 4x 7.68 TB SSD/HDD + 2x 12 TB HDD (40 TB total)
Interfaces	10G LAN & 2.5G LAN 8x USB 3.2 Type A (4 rear, 4 front) 2x USB 3.2 Type A (rear) 1x USB 3.2 Type C (front) 1x USB 3.2 x2 20Gb/s Type C (rear) 7.1 CH HD Audio Intel® 802.11ax WiFi
Power Supply	EVGA 1600W Input voltage: 110-240V
Dimensions	Length: 16.33 in (415mm) Width: 13.07 in (332 mm) Height: 18.03 inches (458 mm)