

NVIDIA A800 40GB Active

The ultimate workstation development platform for Al, data science, and high-performance computing (HPC).

Breakthrough Performance for Advanced Computing Workloads

Bring the power of a supercomputer to your workstation and accelerate end-to-end data science workflows with the NVIDIA® A800 40GB Active GPU. Powered by the NVIDIA Ampere architecture, the A800 40GB Active delivers powerful compute, high-speed memory, and scalability, so data professionals can tackle their most challenging data science, AI, and HPC workloads:

Data Science and Analytics

Power complex data science workflows and accelerate the end-to-end data science pipeline, from data loading and data manipulation to machine learning and visualization.

Al Training and Inference

Conquer demanding AI development, training, and inference workflows, including data preparation and processing, model optimization and tuning, and early-stage training.

HPC, Engineering Simulation/CAE

Run large-scale simulations in full FP64 precision with incredible speed, shorten manufacturing and product development timelines, and accelerate time to value.

Supercharge AI Development Out of the Box With NVIDIA AI Enterprise

Each NVIDIA A800 40GB Active GPU comes with a three-year subscription to NVIDIA AI Enterprise, an end-to-end software platform with enterprise security, stability, manageability, and support. NVIDIA AI Enterprise includes 100+ AI frameworks, libraries, pretrained models, and tools for rapid development and deployment of production-ready AI and data science. Together with NVIDIA A800 40GB, NVIDIA AI Enterprise simplifies AI adoption and achieves business insights faster with the highest performance. Access the NVIDIA AI Enterprise software subscription and learn more about its benefits.

Key Features

NVIDIA Ampere Architecture

Third-Generation Tensor Cores

- Powerful double-precision (FP64) capabilities
- Accelerated training and inference performance

Third-Generation NVIDIA® NVLink™

- Connect two A800 GPUs to scale up to 80 gigabytes (GB) of memory
- > 400 gigabytes per second (GB/s) of bidirectional bandwidth

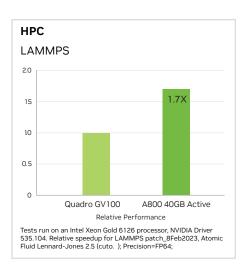
Ultra-Fast HBM2 Memory

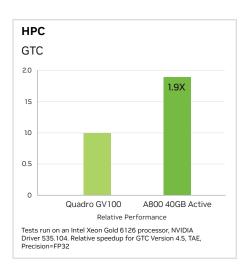
- > 40GB of high-speed HBM2 memory
- > 1.5 TB/s of memory bandwidth

Multi-Instance GPU (MIG)

- > Fully isolated and secure multitenancy
- > Partition up to seven instances

Specifications	
PNY Part Number	VCNA800-PB
GPU Memory	40GB HBM2
Memory Interface	5,120-bit
Memory Bandwidth	1.5 TB/s
CUDA® Cores	6,912
Tensor Cores	432
Double-Precision Performance	9.7 TFLOPS
Single-Precision Performance	19.5 TFLOPS
Peak Tensor Performance	623.8 TFLOPS
Multi-Instance GPU	Up to 7 MIG instances @ 5GB
NVIDIA NVLink	Yes
NVLink Bandwidth	400GB/s
Graphics Bus	PCIe 4.0 x 16
Power Consumption	240W
Thermal	Active
Form Factor	4.4" H x 10.5" L, dual slot
Display Capability ¹	-





Ready to Get Started?

To learn more about NVIDIA A800 40GB Active, visit www.pny.com/rtx-A800

The A800 40GB Active does not come equipped with display ports. The NVIDIA RTX 4000 Ada Generation, NVIDIA RTX A4000, and the NVIDIA T1000 have been qualified to support display out capabilities.

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NVIDIA AI Enterprise Software

An End-to-End Al Software Platform

- A three-year NVIDIA AI Enterprise license included with each A800 40GB Active GPU
- > Fast time to production for Al with access to Al frameworks, libraries, and tools
- Enterprise security, stability, manageability, and support
- > Software activation required

