

**PNY**®

# AI & DATA CENTER SOLUTIONS



 **NVIDIA**®



# BENEFITS OF PNY DATA CENTER SOLUTIONS

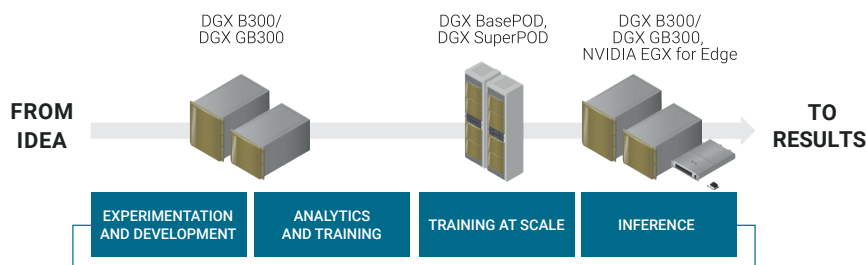
Artificial intelligence has become the go-to approach for solving difficult business challenges. Whether improving customer service, optimizing supply chains, extracting business intelligence, or designing cutting-edge products and services across nearly every industry, AI gives organizations the mechanism to realize innovation. More recently, Generative AI has significantly accelerated the integration of AI across various industries by utilizing AI and Machine Learning algorithms that use existing content to learn and generate new content, such as text, images, music, audio, and videos. It is applied in art, medicine, video games, finance, music, and many other. As a pioneer in AI infrastructure, PNY Data Center Solutions provide the most powerful and complete AI platform for bringing these essential ideas to life. By incorporating generative AI, PNY enhances its capabilities, enabling businesses to harness the full potential of AI-driven.

## One System for all AI Infrastructure

AI INFRASTRUCTURE RE-IMAGINED, OPTIMIZED, AND READY FOR ENTERPRISE AI-AT-SCALE

Flexible AI Infrastructure that adapts to the pace of enterprise:

- One universal building block for the AI data center
- Any workload on any node : any time
- Limitless capacity planning with predictability great performance with scale



## PNY KEY SELLING POINTS

PNY provides the most comprehensive computing, storage and networking portfolio for Datacenters.

Its vast expertise and experience enable to support the challenges of the Datacenter coming from a broad range of industries such as Healthcare, Retail, Higher Education and more.

With its constant focus on innovation, quality, reliability, and support of excellence, the company helps its customers to empower and manage their infrastructure in the most technical and financial efficient ways.

## Pioneering Europe AI innovation

Designed to shape Europe's AI future, the Scaleway Supercalculator is equipped with NVIDIA H100 Tensor Core GPUs, a NVIDIA Quantum-2 InfiniBand network platform, and high-performance DDN storage. This machine scales to hundreds or thousands of nodes, effectively addressing the most significant challenges of the next generation of AI applications.

The Iliad Group is launching Scaleway's NVIDIA DGX SuperPOD for AI and cloud services, including for its own telecommunication operator, Free, to develop generative AI on many use-cases, such as advanced chatbots for customer service. Additionally, the Kyutai laboratory launched by Iliad, CMA-CGM and Schmidt Futures, will benefit from the Nabu supercomputer. Kyutai aims to spread its progress across the entire AI ecosystem, including the scientific community, developers, companies, and society at large. This extends to startups like Mistral AI, which aims to develop a European LLM model.

PNY Technologies has played a pivotal role in this project, leading the way in AI innovation. As a key player, PNY Technologies supplied, installed, and leveraged its expertise in the NVIDIA SuperPOD infrastructure, building on enduring partnerships, especially with AI NVIDIA leader.

**SCALEWAY SUPERCALCULATOR set up with premium NVIDIA AI technologies**

Cluster of 127 NVIDIA DGX H100 Tensor Core, 1016 GPUs NVIDIA H100, up to 4021,3 PFLOPS, 1,8 PB of a3i DDN storage, InfiniBand 400 Gb/s.



**LOGISTICS STRENGTH AND ADAPTABILITY**

**LOCAL TECHNICAL SUPPORT**

**EXPERIENCE & EXPERTISE**

# NVIDIA DGX™ SYSTEMS

SETTING THE BAR FOR ENTREPRISE AI INFRASTRUCTURE

NVIDIA DGX™ systems are purpose-built to meet the demands of enterprise AI and data science, delivering the fastest start in AI development, effortless productivity, and revolutionary performance for insights in hours instead of months.



## NVIDIA DGX™ B300

*The AI factory foundation for AI reasoning*

NVIDIA DGX™ B300 Setting a new bar for AI factory performance, from training to inference.



## NVIDIA DGX™ GB300

*AI factory infrastructure for the era of AI reasoning*

NVIDIA DGX™ GB300 is the highest-performing, largest-scale AI system available for enterprises.

## System Specifications

	NVIDIA DGX B300	NVIDIA DGX GB300
GPUS	8x NVIDIA Blackwell Ultra SXM	72x NVIDIA Blackwell Ultra GPUs, 36x NVIDIA Grace™ CPUs
Total GPU Memory	2.1 TB total, 64 TB/s HBM3e bandwidth	20 TB   Up to 576 TB/s
Performance	FP4 Tensor Core: 144 PFLOPS   108 PFLOPS* FP8 Tensor Core: 72 PFLOPS**	FP4 Tensor Core: 1,440 PFLOPS   1,080 PFLOPS* FP8/FP6 Tensor Core: 720 PFLOPS
System Power Usage	~10,2kW max	Power per rack (rated) 132–140 kW
CPU	Intel Xeon 6776P processors	2,592 Arm Neoverse V2 cores
System Memory	2 TB	Total Fast Memory 37 TB
Networking	8x OSFP ports serving 8x NVIDIA ConnectX-8 VPI Up to 800 Gb/s of NVIDIA InfiniBand/Ethernet 2x dual-port QSFP112 NVIDIA BlueField@-3 DPU Up to 400 Gb/s of NVIDIA InfiniBand/Ethernet	72x OSFP single-port NVIDIA ConnectX@-8 VPI with 800 Gb/s NVIDIA InfiniBand 18x dual-port NVIDIA BlueField@-3 VPI with 200 Gb/s NVIDIA InfiniBand and Ethernet
Management network	1GbE onboard network interface card (NIC) with RJ45 1GbE RJ45 host baseboard management controller (BMC)	Host baseboard management controller (BMC) with RJ45
Storage	OS: 2x 1.9 TB NVMe M.2 Internal storage: 8x 3.84 TB NVMe E1.S	Each compute tray provides a total of 4x 3.84TB E1.S NVMe as RAID0 for local storage and 1x 1.92TB M.2 NVMe for the OS image.
Software	NVIDIA AI Enterprise (optimized AI software) NVIDIA Mission Control (AI data center operations and orchestration with NVIDIA, Run:ai technology) NVIDIA DGX OS (operating system), Support Ubuntu	NVIDIA AI Enterprise (optimized AI software) NVIDIA Mission Control (AI data center operations and orchestration with NVIDIA, Run:ai technology) NVIDIA DGX OS (operating system), Support Ubuntu

\* Specification shown as sparse | dense.  
\*\* Shown with sparsity. Dense is 1/2 sparse spec shown.

# NVIDIA DGX BASEPOD™ & SUPERPOD™

BUILDING ENTERPRISE AI REQUIRES  
A SOLUTION THAT'S ENTERPRISE-READY

A solution that eliminates the complexity of designing AI infrastructure, integrated into your existing environment without upheaval, and that enables a simplified, fast deployment experience. NVIDIA DGX BasePODs and SuperPODs solution delivers the world's best platform for enterprise AI innovation, from AI infrastructure building block to Data Center as a product. Start Small, Scale Predictably in Response to Business Demand.



## NVIDIA DGX BasePOD™

A reference architecture that incorporates best practices for compute, networking, storage, power, cooling, and more, in an integrated AI infrastructure design built on NVIDIA DGX, from 2 to 16 nodes.

## NVIDIA DGX SuperPOD™

AI data center infrastructure platform that enables IT to deliver performance without compromise.

DGX SuperPOD offers leadership-class accelerated infrastructure and agile, scalable performance for the most challenging AI and high-performance computing (HPC) workloads.

Become an AI Scaler, from 31 to 163 DGX H200, and more.



Complete Lifecycle  
of Expertise



Ever-Improving Advanced  
Infrastructure Software



Powered by NVIDIA Base  
Command



## NVIDIA DGX GB300 Systems

NVIDIA DGX™ GB300 is the highest-performing, largest-scale AI system available for enterprises. Built with NVIDIA Grace™ Blackwell Ultra Superchips and scalable up to thousands, DGX GB300 is a rack-scale, liquid-cooled system designed to fit into modern data centers using NVIDIA MGX™ racks. With DGX GB300, the world's leading enterprises can break through performance bottlenecks and equip their organization with an infrastructure solution capable of solving any problem.



Built on NVIDIA Grace  
Blackwell Ultra Superchips



World-Class Infrastructure  
Resiliency



Designed for Modern  
Data Centers



FOR DISCOVERING ALL OUR RECOMMENDATIONS:  
Please visit our PNY Data Center Solutions on:  
[WWW.PNY.COM/EN-EU/PROFESSIONAL/](http://WWW.PNY.COM/EN-EU/PROFESSIONAL/)

**NETWORKING**  
NVIDIA Networking

**COMPUTE**  
NVIDIA DGX / HGX H200  
NVIDIA DGX / HGX B200 / B300  
NVIDIA GB200 / GB300 NVL72

**STORAGE**  
Dedicated Flash FS AI storage  
+ Object S3 storage

**ADVANCED AI SOFTWARE**  
A full-stack AI software suite including workload orchestration, containerization, and AI management tools.

**PNY AI Factory**  
**UNIFIED INFRASTRUCTURE FOR AI EXCELLENCE**

Cloud Service Providers and Enterprises need AI infrastructure that's fast, scalable, and built for multi-tenancy.

This solution maximizes NVIDIA GPU efficiency, reduces costs, and accelerates AI workloads, empowering CSPs and Enterprises to deliver high-performance AI services while boosting profitability and growth.

**Large-Scale AI Model Training**

**Real-Time AI Inference**

**Massive Data Processing**

**AI Cloud & Multi-Tenant AI Workloads**

# PNY, YOUR KEY SOLUTION PARTNER IN THE AI ECOSYSTEM

PNY Technologies is leading the way in AI innovation, setting new standards in the industry. As a key partner, PNY offers end-to-end solutions in the AI ecosystem, including compute, storage, networking, and complete software stack. With our deep expertise, we can define what are the best applications and storage strategies that will help you on your journey to AI.

## BENEFITS OF AI STORAGE



### Data Protection and Security

AI storage solutions come with robust security features. This includes encryption, access controls, and auditing capabilities.



### Flexibility and Adaptability

AI storage solutions are designed to be flexible and adaptable to different types of AI workloads.



### Advanced Analytics and Data Insights

Optimized AI storage can help support those analytics, and more accurate, insightful, and responsive to real-time data.



### Automation of Routine Tasks

AI storage can automate many routine storage management tasks, such as provisioning, data migration, and backup.

FOR MORE INFORMATION:

Visit: [WWW.PNY.EU](http://WWW.PNY.EU)

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# UNLOCK THE FULL POTENTIAL OF YOUR DATACENTER

## Networking for AI Data Centers

### TWO TYPES OF AI DATACENTERS

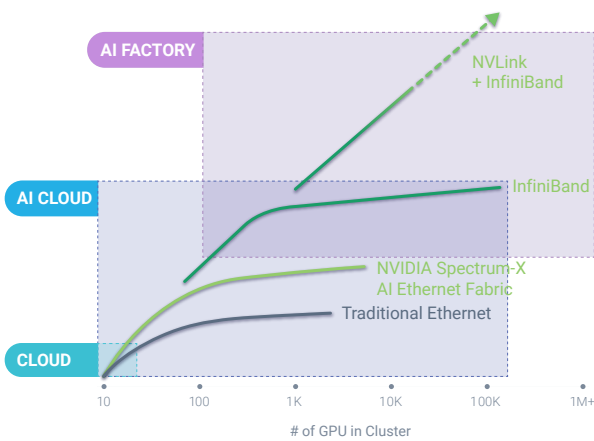


AI Factories



AI Cloud

### THE NETWORK DEFINES THE DATA CENTER



#### Cloud

- Multi-tenant
- Variety of small-scale workloads
- Traditional Ethernet network can suffice

#### Generative AI Cloud

- Multi-tenant
- Variety of workloads including larger scale Generative AI
- Traditional Ethernet network for North-South traffic
- **NVIDIA Spectrum-X Ethernet for AI fabric (East West)**

#### AI Factories

- Single or few users
- Extremely large AI models
- **NVIDIA NVLink and InfiniBand gold standard for AI fabric**

## Complete Infiniband and Ethernet portfolio



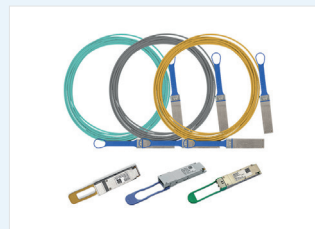
### SmartNICs and DPU

Up to 400Gb/s the Ethernet Network Adapters, InfiniBand Host Channel Adapters (HCA) and Data Processing Unit (DPU) provide accelerated networking and security for the most advanced cloud and AI workloads.



### Switches

The NVIDIA Spectrum Ethernet switch family spans 1GbE to 800GbE, ideal for AI fabrics with NVIDIA GPUs and end-to-end cloud data center networks. NVIDIA Quantum InfiniBand switches offer 400Gb/s throughput, smart acceleration, and a robust architecture for high-performance computing, AI, and hyperscale cloud infrastructures, with reduced cost and complexity.



### Interconnect

Explore NVIDIA's comprehensive line of 100G/200G/400G/800G InfiniBand and Ethernet interconnects, offering low latency, low power, and high reliability for AI and accelerated computing. NVIDIA LinkX® Cables connect within Quantum and Spectrum™ architectures for switch-to-switch, top-of-rack to ConnectX® smart network adapters, and BlueField® DPUs in servers and storage.



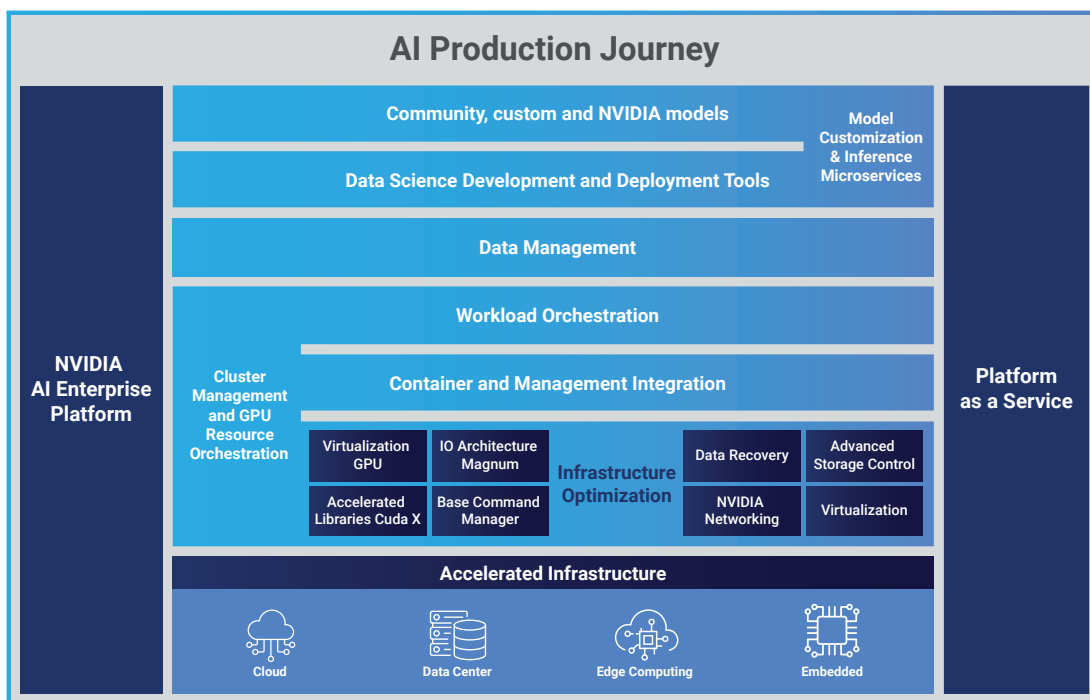
### Spectrum™ -X

First ethernet networking platform for AI, leveraging the close integration of NVIDIA Spectrum™-4 Ethernet switch with the NVIDIA Bluefield®-3 data processing unit DPU, Spectrum-X achieves peak performance in AI, machine learning, natural language processing, various industry applications.

# PNY SOFTWARE SOLUTIONS

OPTIMIZE AI PRODUCTION

At the forefront of AI production, orchestrate massive data processing, optimize hardware resource utilization, and secure every exchange. Unlock AI's potential with cutting-edge software solutions designed for efficiency, scalability, and security.



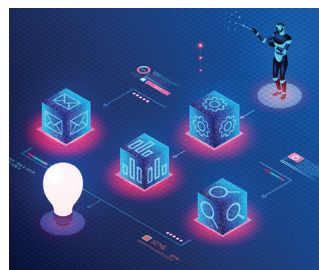
## NVIDIA AI Enterprise

Deploy AI from pilot to production with NVIDIA AI Enterprise platform. Streamline workflows, optimize model performance with microservices, and ensure secure, seamless transitions from prototype to production.



## Container and Management Integration

Start with Ubuntu supported by Canonical and get trusted open source and run your entire Artificial Intelligence/Machine Learning lifecycle on a single integrated stack.



## Workload Orchestration

Transform your AI infrastructure to accelerate development, optimize resources, and lead the race in AI innovation with our workload orchestration solutions.



## Consulting & Development

Embrace and accomplish AI projects with consulting and customized development services, delivering innovative and effective solutions.

## Global AI Expertise



**AI Solutions Aggregator**

PNY delivers optimized applications for complex and evolving AI technologies through an aggregation of partners within the same technology landscape, leveraging NVIDIA GPU solutions to ensure high performance and reliability.



**AI System & Service Advisor**

Empower every stage of the customer lifecycle to deliver significant value, accelerate decision-making, and facilitate fast and easy deployment with our integrated solutions and services, spanning from audit to installation.



PNY provides unsurpassed service and commitment to its Data Center customers.

## SOLUTIONS FOR EACH MARKET



HPC



Data Center



AI/Machine Learning



Clouds



Storage



Security



Telecom



Media & Entertainment

## PNY ADVANTAGE

- Over 20 years of expertise delivering NVIDIA GPU solutions
- Strong partnerships with leading technology suppliers
- Dedicated head count for Sales, Marketing and Support
- Local pre-sales and post-sales assistance
- Direct access to technical support hotlines
- Pre-sales tools, support and configuration assistance
- Dedicated Field Application Engineers providing value-added on-site installation
- Published product support and training materials
- Advanced replacement options for mission-critical deployments
- Long product life cycles and availability
- Loyalty partner channel programs
- Dedicated support programs
- Robust logistics and operational capabilities
- Equipment loan for strategic opportunities
- PNY LAB: a technology center supporting the development of AI, HPC, and VDI solutions

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