CASE STUDY: LYNX TRADING TECHNOLOGIES

Driving Real-Time Analytics with NVIDIA HGX B200

LYNX

ARC COMPUTE

AIVRES

NVIDIA

Driving Real-Time Analytics with NVIDIA HGX B200

OVERVIEW

[Lynx Trading Technologies](#), a New Jersey-based proprietary financial trading firm, needed a faster, more cost-effective way to run real-time analytics. Arc Compute helped them transition from cloud to their own on-prem cluster by delivering two Aivres-manufactured NVIDIA HGX B200 systems, on time and fully tailored to their needs. By moving from unpredictable cloud costs to high-performance on-premise systems, Lynx Trading Technologies cut costs, reduced latency, and gained full infrastructure control in just 4 weeks.

COMPANY BACKGROUND

About Lynx Trading Technologies

- **Industry Focus:** Proprietary trading across equities, derivatives, and futures.

- **Business Goal:** Leverage next-gen GPU infrastructure to run real-time analytics, accelerate trading insights, and reduce long-term infrastructure costs

Pre-Arc Infrastructure

- **Deployment Model:** Cloud-based compute for analytics and ML workloads.

- **Key Pain Points:**
  - High and unpredictable cloud spend
  - Limited transparency into infrastructure tuning
  - Inconsistent performance under peak loads

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THE CHALLENGE

Key Business & Technical Requirements

- **Performance & Latency:** Highest-performance hardware for real-time model evaluation and signal processing

- **Total Cost of Ownership:** Reduce long-term operating costs compared to cloud deployment

- **Infrastructure Control:** Complete visibility into hardware and networking

- **Location:** On-prem deployment at a New Jersey colocation facility for low-latency connectivity to exchanges

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THE RIGHT CHOICE

Why Lynx Chose Arc Compute

After initially requesting a quote for a single system, Lynx Trading chose Arc Compute due to a consultative, responsive approach and competitive pricing.

Arc provided:

- **Rapid Quoting & Personal Attention:** Configuration walkthroughs and proactive answers to every technical question

- **Flexible Financing Options:** Introduced Lynx to Data Sales for purchasing flexibility

- **Best-in-Class Hardware:** Delivered NVIDIA's latest and most powerful HGX B200 systems at a highly competitive price

- **Collaborative Process:** A smooth and supportive experience that made Lynx feel valued

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Arc Compute partnered with Aivres, the system manufacturer, to deliver NVIDIA's HGX B200 technology tailored for Lynx's needs.

TECHNICAL SPECIFICATIONS

Manufactured by

AiVRES

2x NVIDIA HGX B200 8-GPU Systems

System Specifications

- 10U Aivres KR9288-X3 Chassis
- 8x NVIDIA B200 GPUs (Air-Cooled)
- 2x Intel Xeon 6767P (64-Core) CPUs
- 2TB DDR5 ECC Memory
- 8x NVIDIA 400GbE NICs (ConnectX-7)
- 8x 3.84TB U.2 NVMe SSDs
- 2x 960GB M.2 NVMe SSDs
- 3-Year Next Business Day Onsite Warranty

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PROCUREMENT & DEPLOYMENT

Deployment Model

- **Colocation:** Systems deployed in a high-security data center in Secaucus, New Jersey

- **Installation:** Managed by Lynx Trading in collaboration with Aivres' hardware support team

- **Timeline:** Quote and compliance approved and hardware delivered in 4 weeks

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IMPACT & RESULTS

- **Cloud to Colocation Transition:** Lynx successfully migrated analytics workloads to on-prem infrastructure

- **Greater Reliability & Control:** Full command over hardware resources, with no compromise on performance

- **Cost Efficiency:** Moving off the cloud reduced monthly costs and added long-term value to capital expenditure

- **Customer Satisfaction:** Lynx is extremely satisfied with system performance and the purchasing experience

> "Arc Compute made the entire process smooth, from quoting to delivery. Their team was responsive and knowledgeable and helped us get the right configuration. The delivery and support have been excellent end-to-end."

Samuel Vasilevskiy, Datacenter Engineer, Lynx Trading

ARC COMPUTE

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About Arc

Arc Compute specializes in designing, procuring, and implementing state-of-the-art AI and HPC infrastructure. Through strategic industry partnerships, deep technical knowledge, and a hands-on procurement and deployment model, Arc Compute offers end-to-end solutions that accelerate enterprise AI initiatives while optimizing total cost of ownership.

Want to reduce your infrastructure costs and accelerate your workloads? Contact us at sales@arccompute.io to start your journey.