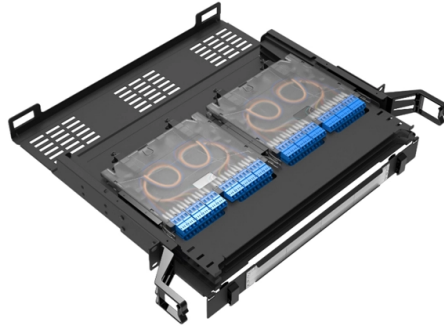


AI Server Purchase



Article Overview

AI servers can be purchased with high-end NVIDIA or AMD GPUs, scalable CPUs, and fast NVMe storage, with options for CapEx purchase, leasing, or rental depending on your budget and workload needs.

Key Considerations for Buying AI Servers

1. **GPU and CPU Selection** AI servers are typically GPU-dense to handle parallel processing for deep learning and large language model training. Popular GPUs include NVIDIA H200, H100, A100, RTX 6000 Ada, RTX A6000, and Tesla V100, while AMD GPUs are also supported. CPUs such as Intel Xeon Scalable or AMD EPYC provide high core counts and large caches to manage data preprocessing, orchestration, and I/O coordination.
2. **Memory and Storage** DDR4 or DDR5 ECC memory is standard for AI workloads. Storage options include NVMe, SAS, and SATA SSDs, offering ultra-low latency and high IOPS for large datasets. Hot-swap bays and PCIe Gen4/Gen5 connectivity ensure responsiveness and scalability.
3. **Form Factor and Scalability** AI servers come in 1U, 2U, and 4U rack configurations, allowing multi-GPU setups and future expansion. Multi-GPU configurations can be scaled to meet growing AI training or inference demands.
4. **Pre-installed Software and Turnkey Solutions** Some vendors, like BIZON, provide servers pre-installed with AI/ML frameworks such as PyTorch, TensorFlow, CUDA, and Docker, enabling plug-and-play deployment for deep learning and LLM training.
5. **Financing Options** Purchasing AI servers outright (CapEx) gives full control and long-term cost benefits for stable workloads but requires significant upfront capital. Leasing or renting servers (OpEx) offers flexibility, reduces initial expenditure, and allows access to the latest hardware without long-term commitment.
6. **Vendor Options**

Article Content

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