

Wholesale Price for an 800GB AI Server

Article Overview

The wholesale price for an 800GB AI server typically ranges from \$80,000 to \$250,000, depending on GPU type, CPU configuration, and vendor options.

Price Range and Factors

The cost of an 800GB AI server varies widely based on several factors:

- o GPU Configuration: High-end NVIDIA GPUs like H100 or L40, or AMD MI300X accelerators, significantly impact pricing. Servers with multiple GPUs (8-16 per node) are at the higher end of the range .
- o CPU and Memory: Enterprise-grade CPUs (Intel Xeon Scalable or AMD EPYC) combined with 800GB of high-speed memory (DDR5 or HBM) contribute substantially to the cost .
- o Storage and Networking: NVMe SSDs, high-bandwidth interconnects, and InfiniBand networking increase both CapEx and operational costs .
- o Cooling and Power: AI servers consume 5-7 kW per node, requiring advanced cooling solutions and power delivery upgrades, which can double or triple the total cost per rack .

Wholesale Market Insights

The wholesale AI server market is growing rapidly, with a global market size of around \$25 billion and a projected CAGR of over 25% . Vendors offer bulk pricing discounts, but supply chain constraints for high-end GPUs can affect availability and pricing. Refurbished or recertified servers can provide cost savings while still supporting 800GB memory configurations .

Recommendations for Buyers

- o Evaluate Performance Metrics: Focus on real-world benchmarks for your AI workloads, not just theoretical TFLOPS .
 - o Consider Total Cost of Ownership (TCO): Include power, cooling, and maintenance costs in your budget .
 - o Check Vendor Support: Ensure warranty, SLA, and integration support for large-scale deployments .
 - o Explore Refurbished Options: Certified refurbished servers can reduce upfront costs while providing enterprise-grade performance .
- In summary, an 800GB AI server wholesale price generally falls between \$80,000 and \$250,000, with exact pricing dependent on GPU type, CPU, storage, and vendor-specific configurations. Factoring in operational costs and infrastructure requirements is essential for accurate budgeting.



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The server is based on the AMD EPYC 9004 Series processors (formerly codenamed "Genoa" and "Genoa-X" and



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NVIDIA itself has not officially published retail prices for individual B200 or B300 units -

Web: <https://www.millstraining.co.za>

