Product Brief

Supermicro CNode-X

Accelerated Data Intelligence

VAST Data advances Supermicro Data Center Building Block solutions with the industry's first integrated AI compute and storage. The Supermicro CNode-X is a VAST Certified System running VAST AI OS on up to two NVIDIA® RTX PRO™ 6000 Blackwell GPUs, bringing compute to data rather than moving data to AI. This eliminates data movement that slows RAG, vector search, and agentic workflows.

Unlike traditional silos, Supermicro CNode-X runs as infrastructure inside VAST platform. VAST AI OS orchestrates GPU workloads through managed Kubernetes with direct access to petabytes on EBox clusters via global namespace. NVIDIA® acceleration libraries run deep inside core services, delivering breakthrough performance without fragmented stacks.

Supermicro CNode-X accelerates production AI through NVIDIA® cuVS for vector search, Sirius for GPU-native SQL reducing query costs 80 percent, NIM microservices for DataEngine pipelines, and Context Memory Storage for multi-agent inference. These execute where data resides, keeping GPUs productive across embedding, indexing, retrieval, and analytics.

Powered by Intel® Xeon™ 6700-series processors, CNode-X servers deliver performance and reliability for continuous AI. Redundant Titanium Level power ensures uninterrupted operation all managed by Supermicro SuperCloud Composer and Server Manager.

Accelerated

GPU workloads execute where data lives without movement penalties.

Integrated

Managed Kubernetes runs NVIDIA NIM, vector search, and DataEngine pipelines.

Scalable

Disaggregated architecture scales GPU and storage independently at rack scale.

Deploy GPU-accelerated AI where your data lives with Supermicro CNode-X and VAST AI OS.

	Type	Quantity
Processor	Intel Xeon™ 64-core, 6774P 2.5 GHz	1x
Memory	512GB DDR5 DIMM @6400MT/s	
Data Connectivity	NVIDIA® CX7 400G x 1 Ethernet/Infiniband	
Mgmt Connectivity	1x AIOM slot with x4 1GbE BMC	1x
Boot	960GB M.2 NVMe SSD	1x
Management	DC-SCM with OpenBMC	
Model	SYS-212GB-FNR CloudDC 1RU rack mount server	

Acceleration	
GPU	NVIDIA® RTX PRO™ 6000 GPU Server Edition
Chip	5th Gen Tensor, 2nd Gen Transformer Engine, FP4
Memory	96GB GDDR7, 1.6 TB/s BW, 128MB L2 Cache



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