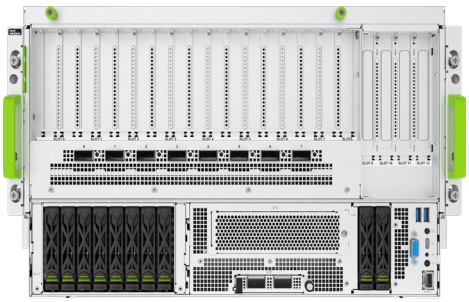



Hyve Solutions Apex™ MGX 6U AI Server

Open Modular AI GPU Server Platform Featuring 8 AMD Instinct™ or NVIDIA RTX PRO™ GPUs in an Air-Cooled 6U MGX Platform

Built for GPU-accelerated AI and HPC, this air-cooled 6U platform combines dual-socket Intel® Xeon® 6 host compute with eight PCIe accelerators, high-bandwidth PCIe expansion, and up to 8×400G networking. Designed for AI training and fine-tuning, LLM inference, enterprise AI, HPC, visualization, and simulation, its modular architecture provides a common platform for scalable accelerated-compute deployments. The modular architecture is designed to simplify platform evolution across future accelerator, networking, and host-compute generations.

Key Features

- Intel® Xeon® 6700E / 6500P / 6700P Processors up to 350W / NVIDIA RTX Pro™ 6000 GPU / CX8 or 89144 Switch
- 6U MGX / 2S BHS CPU / 8x GPU Slots
- 8x 400G QSFP112 / 4+1x PCIe Slots / 8x 2.5 SSD
- Air Cooling / 4+4 3200W Power Module / Green Design
- Serviceability / Modularity / Deployment Feature

System Specifications

Form Factor / Dimensions	265mm (H) x 448mm (W) x 900mm (D)
Motherboard / Platform	Two Socket Intel Xeon 6 Scalable Processor (Granite Rapids)
CPU	2x Intel Xeon 6 Family Processor up to 350W
GPU / Accelerator	8x NVIDIA RTX Pro 6000, AMD Instinct MI350P or Intel CRI GPU
Memory	Up to 32x DDR5 DIMM Slot, Support DIMM up to 6400MT/s
Storage	• 8x SFF NVMe Slot (from Switch) • 2x SFF SATA / NVMe Slot (from CPU, SATA need Add-in RAID Card) • Internal: 2x 2280 M.2 Slot
Networking / LAN	8x 400G QSFP112

PCIe Expansion / I/O	• PCIe Slot for GPU: 8x X16 FHFL Dual Slot (from Switch) • PCIe Slot for E-W NIC: 4x X16 FHHL Single Slot (from Switch) • PCIe Slot for N-S NIC: 1x X16 FHHL Single Slot (from CPU) • Onboard 8x QSFP 400G for E-W NIC (CX8 SKU only)
Cooling / Thermal Solution	Air Cooling Design Verified
System Management	BMC: AST2600, 1 RJ45 Gigabit Management Port
Security / TPM	TPM / TCM Module Support
Power Supply / System Power	4+4 or 5+1 Redundancy (2000W / 2700W / 3200W)
System Fans	• 10x 8086 FANs, N+1 Redundancy • 4x 8056 FANs
Operation Properties	5°C - 35°C

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