SHARK A.I. 8-Slot GPU server

High-performance 4U 19" GPU server with maximum GPU processing power for AI workloads

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A ONE STOP SYSTEMS COMPANY

Features

- Rugged 4U 19" rack enclosure for high-performance GPU applications
- Dual-socket Intel® Xeon® scalable processor
- 8x PCIe x16 Gen3 slots for GPUs, AI accelerators and expansion cards
- 2x 10 Gigabit Ethernet ports with Intel® X550-AT2 controller
- Up to 14x 2.5" hot-swap SATA for flexible storage options

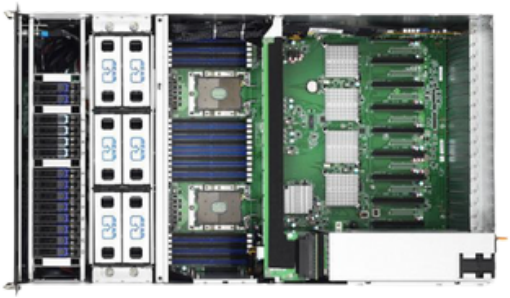
SHARK A.I. 8-Slot GPU server – High-performance AI & HPC platform for maximum GPU density

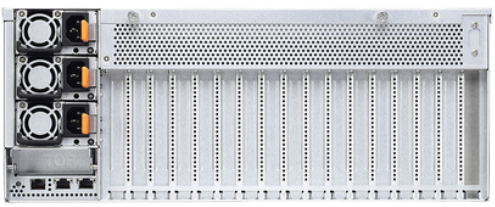
The SHARK A.I. 8-slot GPU server is a universal carrier-grade platform designed for demanding AI, deep learning and high-performance computing (HPC) applications. By combining a powerful server node with PCIe expansion and PCIe switch technology, the system supports up to eight NVIDIA® GPUs, providing maximum computing power for data-intensive workloads. Thanks to the scalable architecture, topologies and bandwidths between GPUs and CPUs can be flexibly adapted. InfiniBand support enables easy scaling across multiple GPU clusters and ensures maximum efficiency for parallel computing.

Maximum GPU performance with flexible architecture
With eight PCIe slots for dual-slot GPUs, the SHARK A.I. offers exceptional computing performance for deep learning, neural networks and HPC applications. The system supports both single-root and dual-root complexes, allowing the resource allocation to be optimally adapted to the respective application. Single-root setups pool all GPU resources for intensive AI training, while dual-root configurations improve CPU utilization and enable more efficient parallel processing.
The SHARK A.I. 8-slot GPU server offers intelligent PCIe lane allocation that assigns GPUs to specific I/O interfaces or CPU cores. This improves the data flow between CPUs and GPUs and optimizes performance for virtualized AI and HPC workloads. Thanks to the modular architecture, the need for additional server systems is reduced, which minimizes energy consumption, cooling and space requirements.

Edge High Performance Computing (EHPC) for maximum scalability
As a powerful Edge High Performance Computing (EHPC) solution, the SHARK A.I. significantly increases the flexibility of cloud and data center infrastructures. It enables the free allocation of GPUs per virtual machine (VM) and allows the implementation of different head nodes to efficiently manage compute-intensive applications. This makes it the ideal platform for GPU-supported simulations, remote virtualization and AI-supported analyses.

Appearance





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Specifications	SHARK A.I. 8-Slot GPU server
SYSTEM	
CPU	Dual-socket Intel® Xeon® scalable processor, max up to 205W TDP
Chipset	Intel® C621
GPU	Supports Single & Dual Root Complex Design 8x PCIe x16 Gen3 graphics card slots
RAM	Up to 3TB DDR4 2666MHz (24x DIMM slots)
Storage	14x 2.5" SATA 6Gbit/s (hot swap)
Expansion	1x PCIe x16 Gen3 slot (low profile) 1x PCIe x8 Gen3 storage (mezzanine slot)
TPM	Optional
INTERFACE	
Ethernet	2x 10-Gigabit Ethernet ports 1x Gigabit Ethernet ports (for IPMI) Intel® X550-AT2 controller
USB	2x USB 3.0 (front)
COM	1x COM (2x5-pin header)
Video	1x VGA port
ENVIRONMENTAL	
Chassis	4U 19" rack enclosure
Cooling	6x 12cm fan (hot-swap)
Power Supply	3200W AC/DC Platinum power adapter; 2+1 redundancy Input: 2000W: 100~270V AC / 12.9A 3200W: 220 ~ 240V AC/ 9.5A
Operating Temperature	10°C ~ 35°C
Storage Temperature	-40° ~ 70°C
Humidity	90% @ 35° C non-condensing
Dimensions (W x H x D)	438 x 176 x 770mm
Certifications	FCC (DoC), CE (DoC), CB/LVD, RCM, VCCI RoHS 6/6 conform