

SHARK A.I. 4-Slot GPU server

High-performance 1U 19" GPU server with PCIe GPU expansion for deep learning models

BRESSNER
A ONE STOP SYSTEMS COMPANY

Features

- Compact 1U 19" rack chassis for space-saving server installations
- Single-socket Intel® Xeon® scalable processor with up to 165W TDP
- 4x PCIe x16 Gen3 slots for GPU and expansion cards
- 2x 10 Gigabit Ethernet ports for fast network connections
- 2x 2.5" hot-swap SATA 6Gbit/s for flexible storage options



SHARK A.I. 4-Slot GPU server – Universal carrier-grade platform

The SHARK A.I. 4-Slot GPU server is a universal carrier-grade platform specifically designed for high-performance edge computing, AI and high-performance computing (HPC) applications. By combining a server node with a PCIe extension and a PCIe switch, the system supports up to four NVIDIA® GPUs to efficiently process a wide range of workloads. Thanks to the flexible architecture, topologies and bandwidths between GPUs and CPUs can be customized. InfiniBander support also enables easy scaling across multiple GPU clusters.

Maximum flexibility for AI and deep learning applications

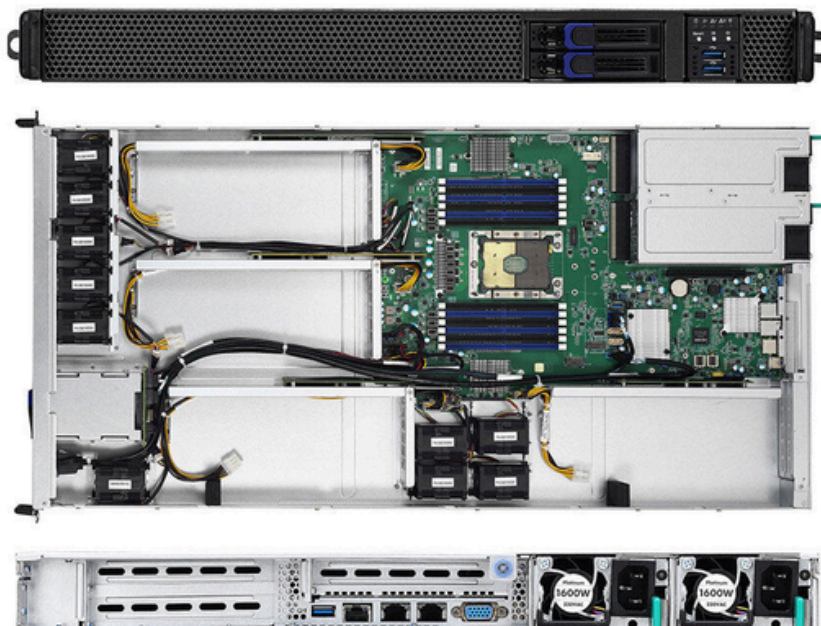
The SHARK A.I. offers support for single-root and dual-root complexes, making it ideal for various AI frameworks. Single-root setups bundle all GPU resources for large-scale deep learning processes, while dual-root configurations distribute the load across CPUs and ensure more efficient machine learning processes. Dynamic PCIe lane allocation allows specific I/O and CPU cores to be configured to ensure optimal performance for virtualized applications.

Edge High Performance Computing (EHPC) for maximum computing power

As a powerful Edge High Performance Computing (EHPC) solution, the SHARK A.I. GPU Server significantly increases the agility and flexibility of cloud infrastructures. Thanks to its modular architecture, it can implement different head nodes and customize the allocation of GPUs per virtual machine (VM). This makes the SHARK A.I. ideal for remote virtualization, scientific computing, AI-powered analytics and GPU-accelerated simulations. The SHARK A.I. features a sophisticated hardware architecture that includes hot-swappable components, redundant fan modules and redundant power supplies. GPU cards can be easily replaced or expanded by removing the top cover – for a fast, maintenance-friendly configuration without long downtimes.

With its high-performance architecture, flexible configurability and industrial-grade robustness, the SHARK A.I. 4-slot GPU server is the perfect choice for AI-powered workloads, deep learning, HPC clusters and industrial automation.

Appearance



SHARK A.I. 4-Slot GPU server

High-performance 1U 19" GPU server with PCIe GPU expansion for deep learning models

Specifications	SHARK A.I. 4-Slot GPU server
SYSTEM	
CPU	Single-socket Intel® Xeon® scalable processor, max up to 165W TDP
Chipset	Intel® C621
GPU	Supports Single & Dual Root Complex Design
RAM	Up to 384GB DDR4 2466MHz (12x DIMM slots)
Storage	2x 2.5" Hot-Swap SATA 6Gbit/s
Expansion	4x PCIe x16 Gen3 slots (Full Height / Half Length)
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) 1x USB 3.0 (rear)
COM	1x COM (2x5-pin header)
Video	1x VGA port
ENVIRONMENTAL	
Chassis	Compact 1U 19" rack enclosure
Cooling	10x 4cm fans (redundant)
Power Supply	1600W AC/DC Platinum power supply unit: 1+1 redundancy Input: 1000W: 100~270V AC / 12A 1600W: 220~240V AC / 9.48A
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 43.5 x 885mm
Certifications	FCC (DoC), CE (DoC), CB/LVD, RCM, VCCI RoHS 6/6 conform