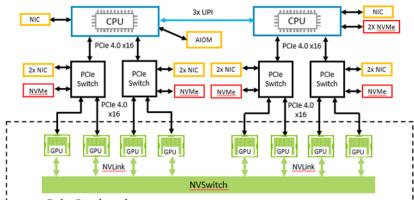


# AI GPU Accelerated Server with 8 NVIDIA A100 SXM4

### FEATURES

Part Number: OSS-AMPERE8

- 4U Chassis
- Dual Future Generation Intel® Xeon® Scalable
  processors
- Up to 6TB DDR4 LRDIMM System Memory
- Six 2.5" NVMe SSD drive bays
- Eight Ampere GPU SXM4 with 600GB/s NVLink 3.0
- Ten x16 PCIe 4.0 slots
- Four 2200W Titanium Power Supplies
- GPU Management and Monitoring pre-installed
- Software bundle pre-installed



#### Delta Baseboard

The OSS-AMPERE8 is the newest and most powerful PCIe 4.0 AI training and inference platform supporting NVIDIA's HGX-A100 baseboard with 600GB/s Bi-Directional NVLink 3.0 peer-to-peer GPU connections designed to tackle the largest AI models. Supporting eight of the latest A100 NVIDIA GPUs, the OSS-AMPERE8 provides 2.5 PetaFLOPS TensorFloat 32 for AI training and 10 PetaOPS INT4 AI inference of sparse neural networks for the most demanding HPC applications. The OSS-AMPERE8 comes completely NVIDIA GPU Cloud certified with deep learning frameworks, popular pre-trained models, GPU management and monitoring software preinstalled to provide data scientists the fastest time to actionable intelligence. The GPU accelerated server also includes dual high-performance Future Intel® Xeon® Scalable processors and DDR4 memory scalable to 6TB. Ten PCIe Gen4 x16 slots are available for additional expansion and for scale out creating a balanced 1:1 GPU Ratio when using IB or highspeed Ethernet networking. The appliance includes six 2.5" removable NVMe drive bays.



## SPECIFICATIONS

Dimensions:	4U Rack Units 7" H x 17.2" W x 35.2" D (39.3" with rails)
CPUs:	Dual Future Generation Intel <sup>®</sup> Xeon <sup>®</sup> Scalable processors
System Memory	Memory Capacity o 32x 288-pin DDR4 DIMM slots Memory Type o 3200 MHz ECC DDR4 RDIMM/LRDIMM
GPUs:	8x Tesla A100 SXM4 o 10 PetaTOPS INT4 <sup>*</sup> ; 2.5 PetaFLOPs Tensor Float 32 <sup>°</sup> , 156 TeraFLOPS FP64 o 320GB HBM2 Memory o 4.8 TB/s Total Aggregate GPU Bandwidth
Software Bundle	Choice of Operating System o CentOS o RHEL o SLES



Part Number: OSS-AMPERE8

### SPECIFICATIONS CONTINUED

	Part Number: USS-AMPEREO
Software Bundle (Continued)	Choice of Machine Learning Framework • Caffe2 • Pytorch • Mxnet • Microsoft Cognitive Toolkit • Tensorflow • Theano • MLPython • ML Dependencies (400MB Python) • cuDNN • DIGITS • Caffe on Spark • CUDA & NVIDIA driver • CUDA & NVIDIA driver • CUB (CUDA building blocks) • NCCL GPU Management from Bright Computing • Health Management • Workload Integration
Expansion Slots	PCI-Express o Ten PCIe 4.0 x16 LP slots o Six PCIe 4.0 x4 U.3 2.5" drive bays
On-board devices:	Chipset: Dual Future Intel® Xeon® Scalable Processors SATA: SATA3 (6Gbps) with RAID 0, 1, 5, 10 IPMI o Support for Intelligent Platform Management Interface v.2.0 o IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Network Controllers o Intel® X540 Dual Port 10GBase-T o Virtual Machine Device Queues reduce I/O overhead o Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output Graphics: ASPEED AST2400 BMC
Drive Bays:	Hot-swap 6x 2.5" Hot-swap NVMe U.3 drive bays
System BIOS:	BIOS Type: 128Mb SPI Flash EEPROM with AMI® BIOS
Front Panel:	Buttons o Power On/Off button o System Reset button LEDs o Power LED o Hard drive activity LED o Two Network activity LEDs o System Overheat LED / Fan fail LED / o UID LED
Cooling Fans:	8x 92mm + 4x 80mm heavy duty counter-rotating fans with air shroud & optimal fan speed control
Power Supply	4x 2200W Redundant Power Supplies with PMBus Total Output Power: 1200W/1800W/1980W/2200W Dimension (W x H x L): 73.5 x 40 x 265 mm Certification: UL/cUL/CB/BSMI/CE/CCC Titanium Level
Environment:	Operating Temperature: 10°C to 30°C (50°F to 86°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Compliance:	RoHS 6 of 6, WEEE