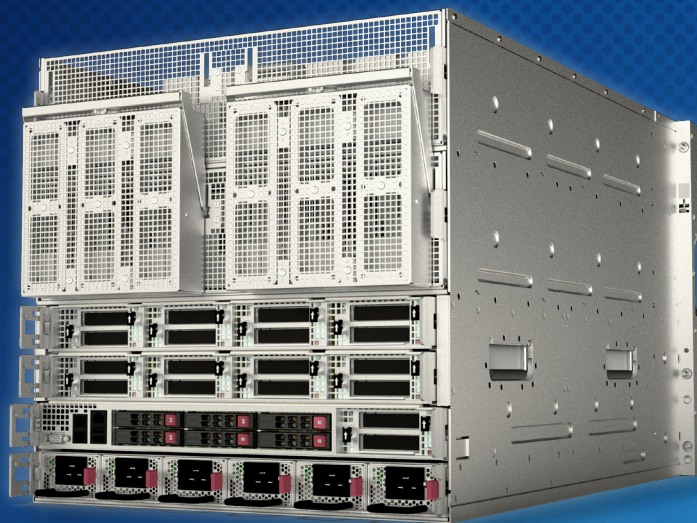




SuperServers Optimized For NVIDIA® Tesla® GPUs

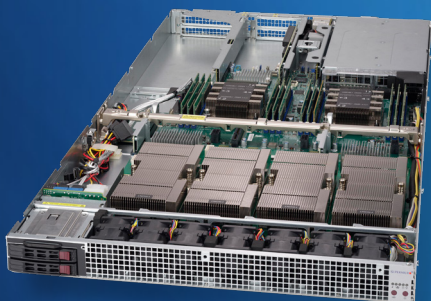
With the Fastest GPU to GPU Interconnections



SYS-9029GP-TNVRT

Most Powerful Solution for *Deep Learning Training*

- Supermicro NVIDIA® **HGX-2** Based Platform
- **16 V100 SXM3** GPUs (512GB GPU Memory)
- NVLink™ and NVSwitch™
- 16 NICs for GPUDirect RDMA
- 16 Hot-swap NVMe Drive Bays
- Fully configurable to order



SYS-1029GQ-TVRT

4 NVIDIA® Tesla® V100 GPUs
with NVIDIA® NVLink™



SYS-4029GP-TVRT

8 NVIDIA® Tesla® V100 GPUs
with NVIDIA® NVLink™



Maximum Acceleration for AI/DL Training Workloads

PERFORMANCE: Highest Parallel peak performance with NVIDIA Tesla V100 GPUs

THROUGHPUT: Best in class GPU-to-GPU bandwidth with a maximum speed of 300GB/s

SCALABILITY: Designed for direct interconnections between multiple GPU nodes

FLEXIBILITY: PCI-E 3.0 x16 for low latency I/O expansion capacity & GPU Direct RDMA support

DESIGN: Optimized GPU cooling for highest sustained parallel computing performance

EFFICIENCY: Redundant Titanium Level power supplies & intelligent cooling control



Model	SYS-1029GQ-TVRT	SYS-4029GP-TVRT
CPU Support	<ul style="list-style-type: none">Dual Intel® Xeon® Scalable processors with 3 UPI up to 10.4GT/sSupports up to 205W TDP CPU	<ul style="list-style-type: none">Dual Intel® Xeon® Scalable processors with 3 UPI up to 10.4GT/sSupports up to 205W TDP CPU
GPU Support	<ul style="list-style-type: none">4 NVIDIA Tesla V100 GPUsNVIDIA® NVLink™ GPU Interconnect up to 300GB/sOptimized for GPUDirect RDMA	<ul style="list-style-type: none">8 NVIDIA® Tesla® V100 GPUsNVIDIA® NVLink™ GPU Interconnect up to 300GB/sOptimized for GPUDirect RDMAIndependent CPU and GPU thermal zones
Serverboard	SUPER● X11DGO	SUPER● X11DGO-T
Chipset	Intel® C621	Intel® C621
Memory Support	Up to 1.5TB DDR4-2666MHz in 12 DIMM slots	Up to 3TB DDR4-2666MHz in 24 DIMM slots
Storage Controller	Intel® PCH for 4 SATA3 (6Gbps) ports	Intel® PCH for 8 SATA3 (6Gbps) ports
Drive Bays	<ul style="list-style-type: none">2 x 2.5" hot-swap SAS/SATA/NVME drive bay2x 2.5" Internal Fixed drive bay	<ul style="list-style-type: none">16x 2.5" hot-swap SATA3 drive baysSupports up to 8 NVMe SSDs
Expansion Slots	<ul style="list-style-type: none">2 PCI-E 3.0 x16 (FHHL/LP) slots (From PLX for GPUDirect RDMA)2 PCI-E 3.0 x16 (FHHL/LP) slots (From CPU)	<ul style="list-style-type: none">4 PCI-E 3.0 x16 (LP) slots (GPU tray for GPUDirect RDMA)2 PCI-E 3.0 x16 (LP) slots (CPU tray)
Networking	Dual 10GBase-T Ethernet ports	Dual 10GBase-T Ethernet ports
Onboard VGA	1 VGA port via ASPEED AST2500 BMC	1 VGA port via ASPEED AST2500 BMC
Management	IPMI 2.0 with virtual media over LAN and KVM-over-LAN support	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog, Supermicro RSD
Power Supply	2000W Titanium Level (96%+) efficiency redundant power supplies	4x 2000W Redundant Titanium Level (96%+) high-efficiency power supplies with iPC & PMBus
Cooling System	7x 40mm heavy duty counter-rotating PWM fans with air shroud & optimal fan speed control	8x 92mm heavy duty counter-rotating PWM fans with air shroud & optimal fan speed control
Form Factor	1U Rackmount: 437 x 43 x 894mm (17.2" x 1.7" x 35.2")	4U Rackmount: 447 x 178 x 805mm (17.6" x 7.0" x 31.7")

