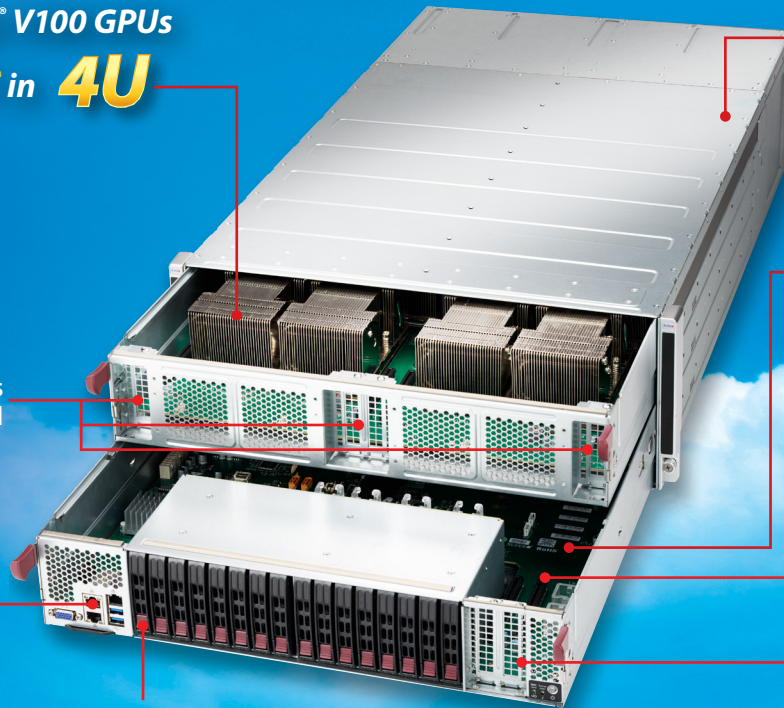




SuperServers Optimized For NVIDIA® Tesla® GPUs

8 NVIDIA® Tesla® V100 GPUs
with NVIDIA® NVLink™ in **4U**



Redundant 4000W **Titanium Level** Power Supplies

Dual Intel® Xeon® Scalable Processors

24 DIMM Slots DDR4

2 PCI-E 3.0 x16 Slots

4 PCI-E 3.0 x16 Slots
GPUDirect RDMA Supported

Onboard 10G Ethernet

16x 2.5" Hot-swap SATA3 Drive Bays
supporting 8 **NVMe** SSDs

SYS-4029GP-TVRT

4 Tesla V100 GPUs
in **4U/Tower**

10 Tesla V100 GPUs
in **4U**
Single PCI-E Root Complex

Support up to:

- Dual Intel® Xeon® Scalable processors
- **3TB** DDR4 memory
- Dual **10GBase-T** Ports
- Redundant **Titanium Level** (96%) Power Supplies



SYS-7049GP-TRT



SYS-4029GP-TRT2



Maximum Acceleration for Highest-Performance Workloads

PERFORMANCE: Highest parallel peak performance up to 8 NVIDIA® Tesla® V100 GPUs

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

SCALABILITY: Designed for pure direct interconnections between multiple GPU nodes

FLEXIBILITY: Up to four PCI-E 3.0 x16 and for low latency I/O expansion capability

DESIGN: No GPU preheating for highest sustained parallel performance and unsurpassed reliability

EFFICIENCY: Redundant Titanium Level power supplies & intelligent cooling control



Model	SYS-7049GP-TRT	SYS-4029GP-TVRT
CPU Support	<ul style="list-style-type: none"> Dual Intel® Xeon® Scalable processors with 3 UPI up to 10.4GT/s Supports up to 205W TDP CPU 	<ul style="list-style-type: none"> Dual Intel® Xeon® Scalable processors with 3 UPI up to 10.4GT/s Supports up to 205W TDP CPU
GPU Support	<ul style="list-style-type: none"> 4 NVIDIA® Tesla® V100 GPUs Optimized for GPUDirect RDMA Optimized cooling with no GPU pre-heating 	<ul style="list-style-type: none"> 8 NVIDIA® Tesla® V100 GPUs NVIDIA® NVLink™ GPU Interconnect up to 300GB/s Optimized for GPUDirect RDMA Independant CPU and GPU thermal zones
Serverboard	SUPER® X11DPG-QT	SUPER® X11DGO-T
Chipset	Intel® C621	Intel® C621
Memory Support	Up to 2TB DDR4-2666MHz in 16 DIMM slots	Up to 3TB DDR4-2666MHz in 24 DIMM slots
Storage Controller	Intel® PCH for 6 SATA3 (6Gbps) ports	Intel® PCH for 8 SATA3 (6Gbps) ports
Drive Bays	8x 3.5" hot-swap SATA3 drive bays	<ul style="list-style-type: none"> 16x 2.5" hot-swap SATA3 drive bays Supports up to 8 NVMe SSDs
Expansion Slots	<ul style="list-style-type: none"> 6 PCI-E 3.0 x16 slots 1 PCI-E 3.0 x4 slot 	<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	2x 2200W Redundant Titanium Level (96%) high-efficiency power	4x 2000W Redundant Titanium Level (96%+) high-efficiency power supplies with i²C & PMBus
Cooling System	<ul style="list-style-type: none"> 4 Heavy duty fans 4 Rear exhaust fan 2 Active heatsink with optimal fan speed control 	8x 92mm heavy duty counter-rotating PWM fans with air shroud & optimal fan speed control
Form Factor	4U Rackmount / Tower: 76 x 40 x 336 mm (27" x 13" x 38")	4U Rackmount: 447 x 178 x 805mm (17.6" x 7.0" x 31.7")



www.supermicro.com/GPU

