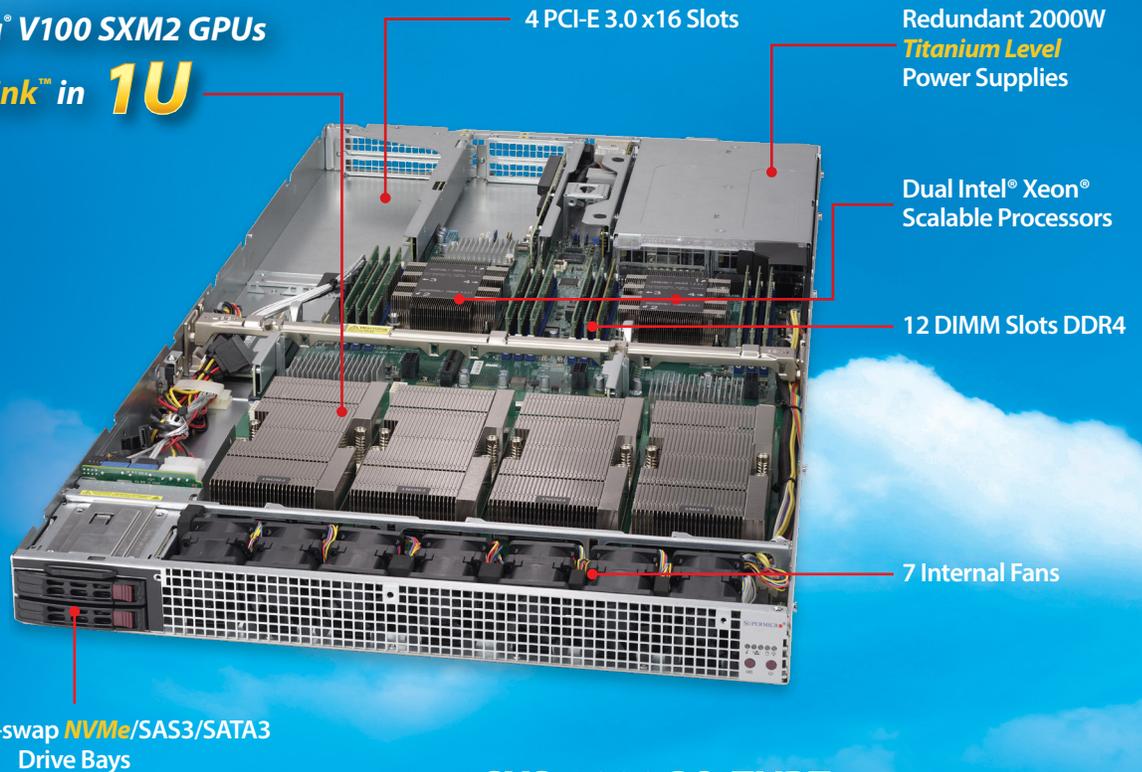




# SuperServers Optimized For NVIDIA® Tesla® GPUs

**4** NVIDIA® Tesla® V100 SXM2 GPUs  
with NVIDIA® NVLink™ in **1U**



**SYS-1029GQ-TVRT**

**4** NVIDIA® Tesla® V100 PCI-E GPUs  
in **1U**



**SYS-1029GQ-TRT**

## Support up to:

- Dual Intel® Xeon® Scalable Processors
- **1.5TB** DDR4 memory
- Dual **10GBase-T** Ports
- Redundant **Titanium Level** (96%) Power Supplies



# Supermicro GPU Solutions

## 1U Rackmount

**PERFORMANCE:** Highest parallel peak performance up to 8 NVIDIA® Tesla® V100 GPUs (4U models)

**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-1029GQ-TVRT	SYS-1029GQ-TRT
<b>CPU Support</b>	Intel® Xeon® Processor Scalable Family (Skylake) with UPI up to 10.4 GT/s	Intel® Xeon® Processor Scalable Family (Skylake) with UPI up to 10.4 GT/s
<b>GPU Support</b>	<ul style="list-style-type: none"> <li>• 4 NVIDIA® Tesla® V100 SXM2 GPUs</li> <li>• Optimized for GPUDirect RDMA</li> <li>• NVIDIA® NVLink™ GPU Interconnect up to 300GB/s</li> </ul>	<ul style="list-style-type: none"> <li>• 4 NVIDIA® Tesla® V100 PCI-E GPUs</li> <li>• GPU health monitoring with fan speed control</li> </ul>
<b>Serverboard</b>	SUPER● X11DGQ	SUPER● X11DGQ
<b>Chipset</b>	Intel® C621	Intel® C621
<b>Memory Support</b>	Up to 1.5TB DDR4-2666MHz in 12 DIMM slots	Up to 1.5TB DDR4-2666MHz in 12 DIMM slots
<b>Storage Controller</b>	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Drive Bays</b>	2 x 2.5" hot-swap SAS/SATA/NVME drive bay; 2x 2.5" Internal Fixed drive bay	2 x 2.5" hot-swap SAS/SATA/NVME drive bay; 2x 2.5" Internal Fixed drive bay
<b>Expansion Slots</b>	4 x PCI-E x16 slots	<ul style="list-style-type: none"> <li>• 4 PCI-E 3.0 x16 for 4 GPUs</li> <li>• 2 PCI-E 3.0 x16 (LP) slots</li> </ul>
<b>Networking</b>	Dual 10GBase-T Ethernet ports	Dual 10GBase-T Ethernet ports
<b>Onboard VGA</b>	1 VGA port via ASPEED AST2500 BMC	1 VGA port via ASPEED AST2500 BMC
<b>Management</b>	IPMI 2.0 with virtual media over LAN and KVM-over-LAN support	IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>Power Supply</b>	2000W Titanium Level (96%+) efficiency redundant power supplies	2000W Titanium Level (96%+) efficiency redundant power supplies
<b>Cooling System</b>	7x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	9x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
<b>Form Factor</b>	1U Rackmount 437 x 43 x 894mm (17.2" x 1.7" x 35.2"); Enclosure: 437 x 43 x 894mm (17.2" x 1.7" x 35.2")	1U Rackmount 437 x 43 x 894mm (17.2" x 1.7" x 35.2"); Enclosure: 437 x 43 x 894mm (17.2" x 1.7" x 35.2")



[www.supermicro.com/GPU](http://www.supermicro.com/GPU)

