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

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

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September 2017
PERFORMANCE: Highest parallel peak performance up to 8 NVIDIA® Tesla® V100 Accelerators
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

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**Model** | **SYS-7049GP-TRT** | **SYS-4028GR-TXR(T)**
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**CPU Support** | Dual Intel® Xeon® Scalable processors with 3UPI up to 10.4GT/s | Dual Intel® Xeon® Processor E5-2600 v4 product families with QPI up to 9.6 GT/s
| Supports up to 205W TDP CPU | Supports up to 160W TDP CPU
**GPU Support** | 4 NVIDIA® Tesla® V100 Accelerators | 8 NVIDIA® Tesla® V100 Accelerators
| Optimized for GPU Direct RDMA | NVIDIA® NVLink™ GPU Interconnect up to 300GB/s
| Optimized cooling with no GPU pre-heating | Independent CPU and GPU thermal zones
**Serverboard** | SUPER® X11DPG-QT | SUPER® X10DGQ-O+CPU
**Chipset** | Intel® C621 | Intel® C612
**Memory Support** | Up to 2TB DDR4-2666MHz in 16 DIMM slots | Up to 3TB DDR4-2400MHz in 24 DIMM slots
**Storage Controller** | Intel® PCH for 6 SATA3 (6Gbps) ports | Intel® PCH for 4 SATA3 (6Gbps) ports
**Drive Bays** | 8x 3.5” hot-swap SATA3 drive bays | 16x 2.5” hot-swap SATA3 drive bays
| Supports up to 8 NVMe SSDs
**Expansion Slots** | 6 PCI-E 3.0 x16 slots | 4 PCI-E 3.0 x16 (LP) slots
| 1 PCI-E 3.0 x4 slot | 2 PCI-E 3.0 x8 (LP) slots
**Networking** | Dual 10GBase-T Ethernet ports | Dual 10GBase-T Ethernet ports
**Onboard VGA** | ASPEED AST2500 VGA | Matrox G200ew graphics
**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 P/E & PMBus
**Cooling System** | 4 Heavy duty fans | 8x 92mm heavy duty counter-rotating PWM fans with air shroud & optimal fan speed control
| 4 Rear exhaust fan | 2 Active heatsink with 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”)

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