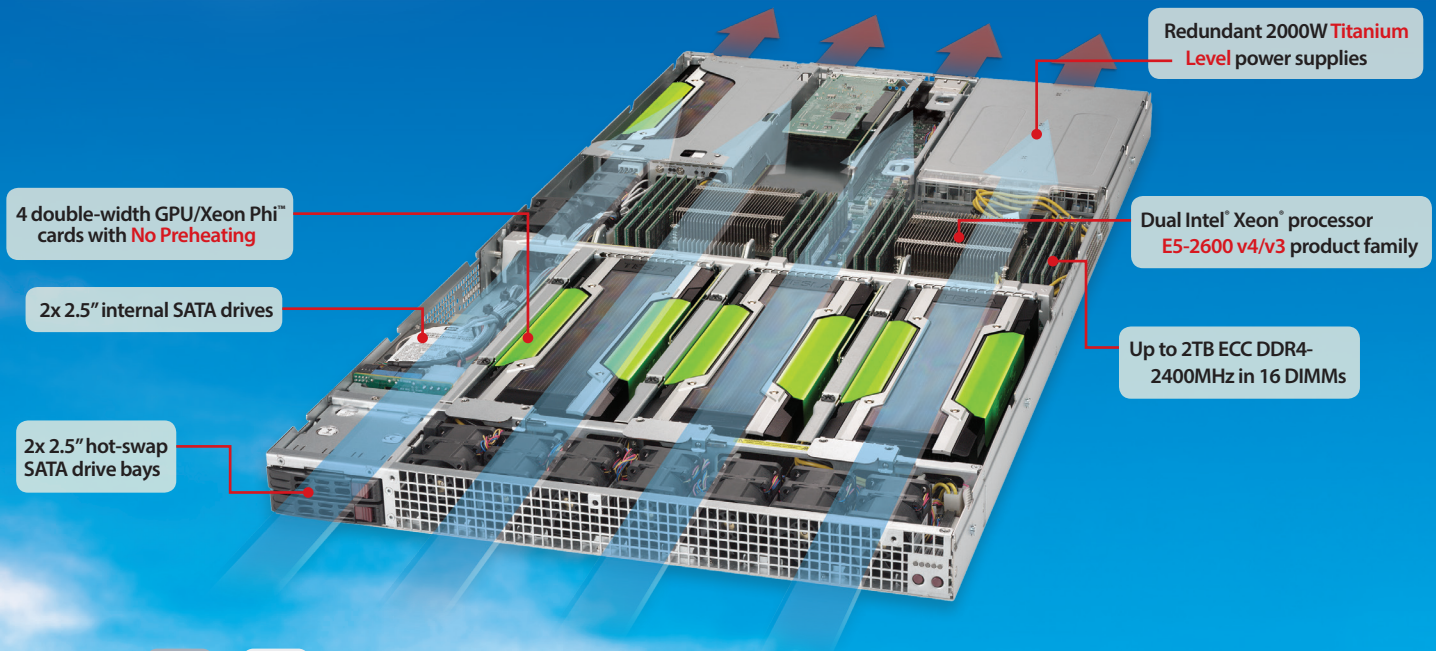




GPU/Xeon Phi™

Supercomputing Server Solutions

Up to **4** Double-Width PCI-E 3.0 in **1U**
Supports Active & Passive GPU/Xeon Phi™ cards



SYS-1028GQ-TR(T)



Medical Imaging



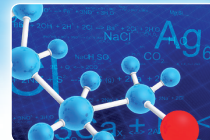
Oil & Gas Exploration



3D Rendering & Gaming



Astrophysics



Quantum Chemistry



Financial Simulation

- **PERFORMANCE:** Up to 4x 300W GPU/Xeon Phi™ cards in 1U to maximize computing power
- **FLEXIBILITY:** Capable of supporting Active & Passive GPU/Xeon Phi™ for unique workloads
- **MANAGEABILITY:** Server management & GPU status monitoring through IPMI 2.0
- **RELIABILITY:** 2000W (1+1) Redundant Titanium Level power supplies & intelligent cooling control
- **EFFICIENCY:** Breakthrough system architecture to optimize TCO, with Titanium Level power supplies, advanced cooling, and high-end motherboard components
- **DESIGN:** Optimized architecture with no GPU/Xeon Phi™ preheating

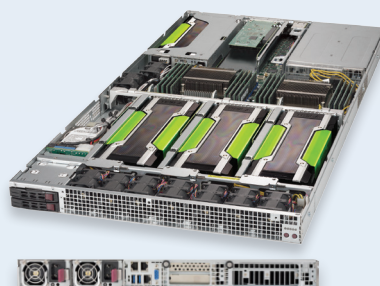


GPU/Xeon Phi™ Supercomputing Server Solutions

The new Supermicro GPU/Xeon Phi™ SuperServer® - SYS-1028GQ-TR(T) supports up to: 4 GPU/Xeon Phi™ cards in 1U, with 2TB DDR4 2400MHz ECC 3DS LRDIMM or RDIMM memory in 16 DIMM slots, 4 SATA 3.0 (6Gbps) ports with Intel® C612 controller, LAN options up to 2x 10GBase-T or 2x Gigabit Ethernet ports, redundant Titanium/Platinum Level power supplies, integrated IPMI 2.0 with KVM over dedicated LAN, and dual Intel® Xeon® processor E5-2600 v4/v3 product family up to 44 cores per node and 145W TDP.

Generating massively parallel processing power and unrivaled networking flexibility with PCI-E 3.0 expansion slots and 10GBase-T LAN, the Supermicro GPU/Xeon Phi™ SuperServer® systems deliver the maximum processing acceleration for the most compute-intensive workloads in the smallest physical dimensions. With support for the very latest DP processors and up to 4 GPU/Xeon Phi™ cards in 1U, these powerful Supermicro GPU/Xeon Phi™ SuperServers help customers to create the most optimized solutions for their supercomputing needs. These systems are offered with Supermicro Global Services and Support featuring Next Business Day or 4-Hour Same Day hardware maintenance service to increase system uptime and productivity.

Supermicro's powerful GPU/Xeon Phi™ SuperServer® systems are optimized for HPC, Medical Imaging, Oil and Gas simulation, Computational Finance, Science and Engineering, and Media/Entertainment.



MODEL	SYS-1028GQ-TR(T)
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4 (Broadwell)/v3 (Haswell) product family with QPI up to 9.6 GT/s
Key Applications	<ul style="list-style-type: none">• HPC cluster computer nodes• 2D/3D and CAD Applications• High-performance computing• Oil & Gas• Cloud and Virtualization needs• Astrophysics
Outstanding Features	<ul style="list-style-type: none">• Up to 4 double width GPU cards in 1U• Supports 16 DIMM, DDR4-2400MHz• 2000W Redundant Titanium Level high-efficiency power supplies• 4x 2.5" SATA drives• IPMI 2.0 + KVM with dedicated LAN• GPU health monitoring with fan speed control
Serverboard	SUPER● X10DGQ
Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	4 PCI-E 3.0 x16 slots (4x GPU/Xeon Phi™ opt.) 2 PCI-E 3.0 x8 (in x16) low profile slots
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10
Connectivity	-TR: Dual LAN with Intel® i350 Gigabit Ethernet controller -TRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T connector
VGA/Audio	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	2x 2.5" hot-swap SATA drive bay + 2x 2.5" internal HDDs
Power Supply	2000W Redundant Titanium Level high-efficiency power supplies
Cooling System	9x 4cm heavy duty counter-rotating PWM fans with air shroud with optimal fan speed control
Form Factor	1U Rackmount: 437 x 43 x 894mm (17.2" x 1.7" x 35.2")

* Please check with your Supermicro sales representative for compatibility

MKT-0005-04/2016

