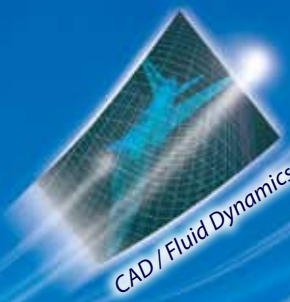
SUPERMICRO®

Workstation/Server

Supercomputing Solutions

Maximized 4U Expandability, Featuring 11 Expansion Slots
Optimized for 4 GPUs (Double-width)


CAD / Fluid Dynamics


Medical Applications


Financial Simulation


Quantum Chemistry


Oil and Gas Exploration

SC747TQ-R1400

- 11 full-height, full-length expansion I/O cards
- Optimized to support up to 4 double-width GPUs
- Redundant (1+1) 1400W Gold Level high-efficiency (93%) power supplies
- 8 hot-swap 3.5" SAS/SATA HDD bays
- Highest MTBF hot-pluggable fans
- 4 dedicated power connectors for high-end GPUs
- Ideal for graphics and computationally intensive applications

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SUPERMICRO® High-End Workstation/Server Supercomputing Solutions

The **SC747TQ-R1400** server/workstation chassis offers 11 full-height, full-length PCI-E expansion slots and 4 sets of 6-pin and 8-pin power connectors to support up to 4 double-width GPU cards, an industry first. Optimized redundant power and cooling includes high-efficiency (93%) Gold Level 1400W power supplies with PMBus support and 4 hot-swap cooling fans plus 2 hot-swap exhaust fans incorporating advanced fan speed controls, to accommodate the most demanding GPU applications. Its 8 hot-swap SAS/SATA HDDs offer exceptional storage capacity, and its three 5.25" storage modules can rotate 90º to flexibly accommodate tower or rack-mountable configurations.

Supermicro also offers two powerful GPU based systems utilizing the **SC747TQ-R1400** chassis. The **SW7046GT-TRF-TC4** accommodates an **X8DTG-QF** motherboard and four NVIDIA Tesla GPUs, while the **SW7046GT-TRF** includes the **X8DTG-QF** motherboard only, allowing customers to incorporate their own GPUs.

SuperWorkstation 7046GT-TRF
SC747TQ-R1400 Chassis + X8DTG-QF Serverboard

80 PLUS GOLD
Gold Level
80 PLUS® Certified
Power Supplies

93% Power Efficiency
For TCO improvement and
earth-friendly computing

Optimized Motherboards




X8DTG-QF	X8DAH+(-F)	X8DTH-6(F)/X8DTH-i(F)	H8DA3-2
Dual Intel® 5500 series Xeon® Quad/Dual-Core, with QPI up to 6.4 GT/s	Dual Intel® 5500 series Xeon® Quad/Dual-Core, with QPI up to 6.4 GT/s	Dual Intel® 5500 series Xeon® Quad/Dual-Core, with QPI up to 6.4 GT/s	Dual Six-Core/Quad-Core AMD Opteron™ 2000 Series (Socket F) support; HT3.0 Link support
Proprietary 15.2"W x 13"H	Ext. ATX 13.68"W x 13"H	Ext. ATX 12"W x 13"H	Ext. ATX 12"W x 13"H
96 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 12 DIMMs	144 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 18 DIMMs	96 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 12 DIMMs	Up to 64GB DDR2 800/667/533 MHz SDRAM in 8 DIMMs
4 PCI-E 2.0 x16 2 PCI-E 2.0 x4 (in x16 slots) 1 PCI-E x4 (in x8 slot) 2 PCI	2 PCI-E 2.0 x16 4 PCI-E 2.0 x8 (1 in x16 slot) 1 PCI-E 2.0 x4 (in x8 slot)	7 PCI-E 2.0 x8 (all in x16 slots)	2 PCI-E x16 1 PCI-E x8 (using x16 slot) 2 PCI-E x4 (using x8 slots) 1 32-bit PCI
Intel® ICH10R for 6 SATA 3 Gb/s: RAID 0, 1, 5, 10 (Windows) RAID 0,1,10 (Linux)	Intel® ICH10R for 6 SATA 3 Gb/s: RAID 0,1,5,10 (Windows) RAID 0,1,10 (Linux)	LSI 2008 8-port SAS 6 Gb/s controller: RAID 0,1,10 (X8DTH-6(F)) RAID 5 with optional AOC-IMRRAKEY-2008-LSI Intel® ICH10R for 6 SATA 3 Gb/s: RAID 0,1,5,10 (Windows) RAID 0,1,10 (Linux)	LSI 1068E 8-port SAS 3 Gb/s controller: RAID 0,1,10 RAID 5 with optional AOC-iButton68 NVIDIA® MCP55-Pro for 6 SATA 3 Gb/s: RAID 0,1,0+1,5 JBOD
Dual LAN with Intel® 82574L Gigabit Ethernet	Dual LAN with Intel® 82576 Gigabit Ethernet	Dual LAN with Intel® 82576 Gigabit Ethernet	Dual LAN with NVIDIA® MCP55-Pro Gigabit Ethernet
IPMI 2.0 + KVM with dedicated LAN	IPMI 2.0 + KVM with dedicated LAN (F versions only)	IPMI 2.0 + KVM with dedicated LAN (F versions only)	SIMLP IPMI 2.0

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