

# SUPERMICRO®

# GPU Massively Parallel Processing Supercomputing Servers

## Two TFLOP GPUs in 1U

The world's first and only GPU-optimized 1U server!



X8DTG-DF Serverboard



GPU 1 (Double-width)



GPU 2 (Double-width)



Gold Level  
80 PLUS® Certified  
Power Supplies

## Supermicro GPU Supercomputing Server Solutions

SuperServer 6016T series  
X8DTG-DF Serverboard + SC818G-1400B Chassis

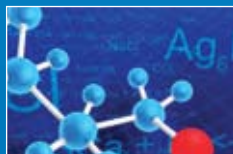
The SS6016T Supercomputing servers establish Supermicro as the true global IT hardware leader in server architecture, performance, and Green computing. Generating massively parallel processing power and unrivaled networking flexibility with two double-width GPUs or up to 5 expansion slots in a 1U form factor, the SS6016T is performance and quality optimized for the most computationally-intensive applications. Supermicro's unique server designs with Gold Level power supplies, energy-saving motherboards and enterprise class server management optimize cooling for even the most demanding applications, providing the perfect technology platform for these impressive GPU Supercomputing Servers.



Medical Imaging



Oil & Gas Exploration



Quantum Chemistry



Financial Simulation



3D Ultrasound

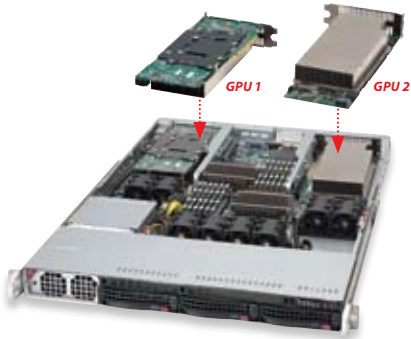


Astrophysics

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

# SUPERMICRO® GPU Supercomputing Server Solutions

**2x GPUs included!**



**5 add-on cards in 1U**  
**- 4 full-height, full length slots**  
**- 1 low-profile slot**



**Supports 2x any PCI-E 2.0 x16 compatible GPUs**



MODEL	SS6016T-GF-TM2 SS6016T-GF-TC2	SS6016T-XF	SS6016T-GF
Outstanding Selling Points	<ul style="list-style-type: none"> <li>• 2 Teraflops in 1U (240 cores per GPU)</li> <li>• The world's first and only GPU optimized 1U server</li> <li>• Gold Level 93% efficiency 1400W power supplies</li> <li>• Flexible system configurations: Enterprise level remote management with TM2 model and active cooling with TC2 model</li> <li>• Certified by NVIDIA</li> <li>• Intelligent server management tool</li> </ul>	<ul style="list-style-type: none"> <li>• 5 add-on cards in 1U</li> <li>• Gold Level 93% efficiency 1400W power supplies</li> <li>• Intelligent server management tool</li> </ul>	<ul style="list-style-type: none"> <li>• 2 GPUs supported</li> <li>• The world's first and only GPU optimized 1U server</li> <li>• Gold Level 93% efficiency 1400W power supplies</li> <li>• Intelligent server management tool</li> </ul>
Processor Support	Intel® Xeon® Processor 5500 Series (Nehalem)	Intel® Xeon® Processor 5500 Series (Nehalem)	Intel® Xeon® Processor 5500 Series (Nehalem)
Chipset	Intel® 5520 chipset with QPI up to 6.4GT/s	Intel® 5520 chipset with QPI up to 6.4GT/s	Intel® 5520 chipset with QPI up to 6.4GT/s
GPUs/ Add-on Cards	2 GPUs are included		
Motherboard	SUPER® X8DTG-DF	SUPER® X8DTG-DF	SUPER® X8DTG-DF
System Memory (max.)	Up to 48 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 12 DIMMs	Up to 48 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 12 DIMMs	Up to 48 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 12 DIMMs
Expansion Slots	<b>Right/Left slot:</b> - NVIDIA® Tesla M1060 GPU Card - Total 2 Cards (TM2 Model) - NVIDIA® Tesla C1060 GPU Card - Total 2 Cards (TC2 Model) <b>Top slot via riser card (low-profile):</b> - PCI-E 2.0 x4 (in x16 slot)	<b>Right/Left slot:</b> - 2x PCI-E 2.0 x8 (in x16 slots) - Total 4 slots <b>Top slot via riser card (low-profile):</b> - PCI-E 2.0 x4 (in x16 slot)	<b>Right/Left slot:</b> - PCI-E 2.0 x16 - Total 2 slots <b>Top slot via riser card (low-profile):</b> - PCI-E 2.0 x4 (in x16 slot)
Onboard SATA RAID	Intel® ICH10R for 6 SATA (3 Gbps): RAID 0, 1, 5, 10 (Windows) RAID 0,1,10 (Linux)	Intel® ICH10R for 6 SATA (3 Gbps): RAID 0, 1, 5, 10 (Windows) RAID 0,1,10 (Linux)	Intel® ICH10R for 6 SATA (3 Gbps): RAID 0, 1, 5, 10 (Windows) RAID 0,1,10 (Linux)
Onboard LAN/ VGA/ I/O	Dual LAN with Intel® 82576 Gigabit Ethernet Up to 4 USB 2.0 ports Matrox G200eW Graphics	Dual LAN with Intel® 82576 Gigabit Ethernet Up to 4 USB 2.0 ports Matrox G200eW Graphics	Dual LAN with Intel® 82576 Gigabit Ethernet Up to 4 USB 2.0 ports Matrox G200eW Graphics
Manageability	IPMI 2.0 + KVM with dedicated LAN Watch Dog, SuperDoctor® III	IPMI 2.0 + KVM with dedicated LAN Watch Dog, SuperDoctor® III	IPMI 2.0 + KVM with dedicated LAN Watch Dog, SuperDoctor® III
Drive Bays	3x 3.5" hot-swap drive trays 1x Slim DVD drive (optional) USB / COM port tray (optional)	3x 3.5" hot-swap drive trays 1x Slim DVD drive (optional) USB / COM port tray (optional)	3x 3.5" hot-swap drive trays 1x Slim DVD drive (optional) USB / COM port tray (optional)
Power Supply	1400W Gold Level high-efficiency power supply	1400W Gold Level high-efficiency power supply	1400W Gold Level high-efficiency power supply
Cooling System	8x 4cm heavy duty counter-rotating fan with optimal GPU and CPU fan speed control	8x 4cm heavy duty counter-rotating fan with optimal GPU and CPU fan speed control	8x 4cm heavy duty counter-rotating fan with optimal GPU and CPU fan speed control
Form Factor	1U rackmount: 17.2"W (437mm) x 1.7"H (43mm) x 28.2"D (716mm)	1U rackmount: 17.2"W (437mm) x 1.7"H (43mm) x 28.2"D (716mm)	1U rackmount: 17.2"W (437mm) x 1.7"H (43mm) x 28.2"D (716mm)

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