

GPU SuperWorkstation 7049GP-TRT

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Integrated Board



[Super X11DPG-QT](#)

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Key Features

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
2. Up to 2TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 16 DIMM slots
3. 6 PCI-E 3.0 x16 slots, 1 PCI-E 3.0 x4 (in x8 slot)
4. 8 Hot-swap 3.5" drive bays
5. 2x 10GBase-T LAN ports via Intel X550
6. 1 VGA, 2 COM, 5 USB 3.0
7. 4 Heavy duty fans, 4 exhaust fans, and 2 active heatsink with optimal fan speed control
8. 2200W Redundant Power Supplies **Titanium Level (96%)**
9. **GPU Kit for passive GPU/Coprocessor support (MCP-320-74702-0N-KIT)**

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-7049GP-TRT ■ SuperServer 7049GP-TRT (Black)

Motherboard

Super X11DPG-QT

Chassis

Form Factor ■ 4U Rackmountable / Tower
■ Optional Rackmount Kit

Model ■ CSE-747BTS-R2K20BP



Dimensions and Weight

Height ■ 18.2" (462mm)

Processor/Cache	
CPU	<ul style="list-style-type: none"> ■ Dual Socket P (LGA 3647) ■ Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s ■ Support CPU TDP 70-205W
Cores	■ Up to 28 Cores with Intel® HT Technology
GPU Support	■ Please refer to: Compatible GPU list
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ■ 16 DIMM slots ■ Up to 2TB ECC 3DS LRDIMM, 1TB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	■ 2666/2400/2133MHz ECC DDR4 SDRAM
On-Board Devices	
Chipset	■ Intel® C621 chipset
SATA	■ SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	<ul style="list-style-type: none"> ■ Intel® X550 Dual Port 10GBase-T ■ Virtual Machine Device Queues reduce I/O overhead ■ Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
IPMI	<ul style="list-style-type: none"> ■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	■ ASPEED AST2500 BMC
Input / Output	
SATA	■ 10 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> ■ 2 RJ45 10GBase-T ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ■ 5 USB 3.0 ports (2 rear, 2 via header, 1 Type A) ■ 4 USB 2.0 ports (2 rear, 2 via headers)
Video	■ 1 VGA port
Serial Port/Header	■ 2 COM ports (1 rear, 1 Header)
System BIOS	
BIOS Type	■ AMI 32Mb SPI Flash ROM
Management	

Width	■ 7.0" (178mm)
Depth	■ 26.5" (673mm)
Package	■ 27" (H) x 13" (W) x 38" (D)
Weight	<ul style="list-style-type: none"> ■ Net Weight: 46 lbs (20.9 kg) ■ Gross Weight: 62 lbs (28.1 kg)
Available Colors	■ Dark Gray
Front Panel	
Buttons	<ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button
LEDs	<ul style="list-style-type: none"> ■ Power status LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Overheat & Power Fail LED
Ports	■ 2 Front USB 3.0 Ports
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> ■ 6 PCI-E 3.0 x16 (double-width) slots ■ 1 PCI-E 3.0 x4 (in x8 slot)
Drive Bays	
Hot-swap	■ 8 Hot-swap 3.5" drive bays
System Cooling	
Fans	<ul style="list-style-type: none"> ■ 4 Heavy duty fans ■ 2 Rear exhaust fans ■ 2 Optional Rear fans (required for Passive GPUs)
Heatsink	■ 2 Active heatsink with optimal fan speed control
Power Supply	
2200W Redundant Power Supplies with PMBus	
Total Output Power and Input	<ul style="list-style-type: none"> ■ 1200W with Input 100-127Vac ■ 1800W with Input 200-220Vac ■ 1980W with Input 220-230Vac ■ 2090W with Input 230-240Vac ■ 2200W with Input 220-240Vac (for UL/cUL use only) ■ 2090W with Input 230-240Vdc (for CCC only)
AC Input Frequency	■ 50-60Hz
Dimension (W x H x L)	■ 76 x 40 x 336 mm

Software	<ul style="list-style-type: none"> ■ Intel® Node Manager ■ IPMI 2.0 ■ SSM, SPM, SUM ■ SuperDoctor® 5
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> ■ Monitors for CPU Cores, Chipset Voltages, Memory. ■ 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> ■ Fans with tachometer monitoring ■ Status monitor for speed control ■ Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> ■ Monitoring for CPU and chassis environment ■ Thermal Control for fan connectors

+12V	<ul style="list-style-type: none"> ■ Max: 100A / Min: 0A (100-127Vac) ■ Max: 150A / Min: 0A (200-220Vac) ■ Max: 165A / Min: 0A (220-230Vac) ■ Max: 174.17A / Min: 0A (230-240Vac) ■ Max: 183.3A / Min: 0A (220-240Vac)
5VSB	<ul style="list-style-type: none"> ■ Max: 1A / Min: 0A
Output Type	<ul style="list-style-type: none"> ■ Backplanes (gold finger)
Certification	  <ul style="list-style-type: none"> ■ UL/cUL/CB/BSMI/CE/CCC ■ Titanium Level ■ [Cert. in progress]
Operating Environment	
RoHS	<ul style="list-style-type: none"> ■ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> ■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) ■ Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) ■ Operating Relative Humidity: 8% to 90% (non-condensing) ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)