

# WS-4029GP



## Key Features

- 3D Rendering
- Astrophysics, Chemistry
- Cloud and Virtualization needs
- Cloud Computing
- Compute Intensive Application

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
2. Up to 3TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 24 DIMM slots
3. 8 PCI-E 3.0 x16 slots (support up to 8 double width GPU), 2 PCI-E 3.0 x8, 1 PCI-E 2.0 x4
4. Up to 24 Hot-swap 2.5" drive bays; 8x 2.5" drives supported natively
5. 2x 10GBase-T LAN ports via Intel C622
6. 8 Hot-swap 92mm RPM cooling fans
7. 2000W (2+2) Redundant Power Supplies **Titanium Level (96%+)**

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

## Specifications

### Motherboard

#### Super X11DPG-OT-CPU

### Processor/Cache

<b>CPU</b>	<ul style="list-style-type: none"> <li>■ Dual Socket P (LGA 3647)</li> <li>■ Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s</li> <li>■ Support CPU TDP 70-205W</li> </ul>
<b>Cores</b>	<ul style="list-style-type: none"> <li>■ Up to 28 Cores with Intel® HT Technology</li> </ul>

### System Memory

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>■ 24 DIMM slots</li> <li>■ Up to 3TB ECC 3DS LRDIMM, 1TB ECC RDIMM, DDR4 up to 2666MHz</li> </ul>
<b>Memory Type</b>	<ul style="list-style-type: none"> <li>■ 2666/2400/2133MHz ECC DDR4 SDRAM</li> </ul>

### On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>■ Intel® C622 chipset</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>■ SATA3 (6Gbps) with RAID 0, 1, 5, 10</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>■ Dual Port 10GbE from C622</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>■ Support for Intelligent Platform Management Interface v.2.0</li> <li>■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>■ ASPEED AST2500 BMC</li> </ul>

### Input / Output

<b>SATA</b>	<ul style="list-style-type: none"> <li>■ 10 SATA3 (6Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>■ 2 RJ45 10GBase-T LAN ports</li> <li>■ 1 RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>■ 4 USB 3.0 ports (rear)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>■ 1 VGA Connector</li> </ul>
<b>COM Port</b>	<ul style="list-style-type: none"> <li>■ 1 COM port (rear)</li> </ul>

### System BIOS

### Dimensions

<b>Height</b>	<ul style="list-style-type: none"> <li>■ 7.0" (178mm)</li> </ul>
<b>Width</b>	<ul style="list-style-type: none"> <li>■ 17.2" (437mm)</li> </ul>
<b>Depth</b>	<ul style="list-style-type: none"> <li>■ 29" (737mm)</li> </ul>

<b>Weight</b>	<ul style="list-style-type: none"> <li>■ Net Weight: 65.5 lbs (29.7 kg)</li> <li>■ Gross Weight: 100 lbs (45.3 kg)</li> </ul>
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<b>Available Colors</b>	<ul style="list-style-type: none"> <li>■ Black</li> </ul>
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### Drive Bays

<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>■ Up to 24 Hot-swap 2.5" SAS/SATA drive bays</li> <li>■ 8x 2.5" drives supported natively</li> </ul>
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### Expansion Slots

<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>■ 8 PCI-E 3.0 x16 (double-width) slots</li> <li>■ 2 PCI-E 3.0 x8 slots</li> <li>■ 1 PCI-E 2.0 x4 slot</li> </ul>
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### System Cooling

<b>Fans</b>	<ul style="list-style-type: none"> <li>■ 8 Hot-swap 92mm cooling fans</li> </ul>
<b>Shrouds</b>	<ul style="list-style-type: none"> <li>■ 1 Air Shroud (MCP-310-41808-0B)</li> </ul>

### Power Supply

2000W Redundant Power Supplies with PMBus



<b>Total Output Power</b>	<ul style="list-style-type: none"> <li>■ 1000W/1800W/1980W/2000W</li> </ul>
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<b>Dimension (W x H x L)</b>	<ul style="list-style-type: none"> <li>■ 73.5 x 40 x 265 mm</li> </ul>
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<b>Input</b>	<ul style="list-style-type: none"> <li>■ 100-120Vac / 12.5-9.5A / 50-60Hz</li> <li>■ 200-220Vac / 10-9.5A / 50-60Hz</li> <li>■ 220-230Vac / 10-9.8A / 50-60Hz</li> <li>■ 230-240Vac / 10-9.8A / 50-60Hz</li> <li>■ 200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)</li> </ul>
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<b>+12V</b>	<ul style="list-style-type: none"> <li>■ Max: 83.3A / Min: 0A (100-120Vac)</li> <li>■ Max: 150A / Min: 0A (200-220Vac)</li> <li>■ Max: 165A / Min: 0A (220-230Vac)</li> <li>■ Max: 166.7A / Min: 0A (230-240Vac)</li> </ul>
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<b>BIOS Type</b>	■ AMI 32Mb SPI Flash ROM
<b>Management</b>	
<b>Software</b>	<ul style="list-style-type: none"> <li>■ Intel® Node Manager</li> <li>■ IPMI 2.0</li> <li>■ KVM with dedicated LAN</li> <li>■ SSM, SPM, SUM</li> <li>■ SuperDoctor® 5</li> <li>■ Watchdog</li> </ul>
<b>PC Health Monitoring</b>	
<b>CPU</b>	<ul style="list-style-type: none"> <li>■ Monitors for CPU Cores, Chipset Voltages, Memory.</li> <li>■ 4+1 Phase-switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>■ Fans with tachometer monitoring</li> <li>■ Status monitor for speed control</li> <li>■ Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>■ Monitoring for CPU and chassis environment</li> <li>■ Thermal Control for fan connectors</li> </ul>

<b>12Vsb</b>	■ Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)
<b>Output Type</b>	■ Max: 2.1A / Min: 0A
<b>Output Type</b>	■ 25 Pairs Gold Finger Connector
<b>Certification</b>	  UL/cUL/CB/BSMI/CE/CCC Titanium Level
<b>Operating Environment</b>	
<b>RoHS</b>	<ul style="list-style-type: none"> <li>■ RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)</li> <li>■ Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</li> <li>■ Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>■ Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>