

WS-1029GP



Coming Soon

Key Features

- Supports up to 3 GPUs in 1U
- Support Passive GPUs
- 2D/3D and CAD Applications
- Astrophysics, Chemistry
- Cloud and Virtualization

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. 4 PCI-E 3.0 x16 (FHFL) slots, 1 PCI-E 3.0 x8 (in x16, LP) slots
4. 2 Hot-swap 2.5" SAS/SATA drive bays, 2 Hot-swap 2.5" SAS/SATA/NVMe drive bays
5. 1 **SIOM** for flexible Networking
6. 10 Counter rotating fans with optimal fan speed control
7. 1600W Redundant Power Supplies **Platinum Level (94%)**

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

Specifications

Motherboard

Super X11DPG-SN

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 70-165W*
Cores	<ul style="list-style-type: none"> ■ Up to 28 Cores with Intel® HT Technology
Note	<ul style="list-style-type: none"> * 165W support ambient up to 25C.

System Memory

Memory Capacity	<ul style="list-style-type: none"> ■ 16 DIMM slots ■ Up to 2TB ECC 3DS LRDIMM, 2TB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	<ul style="list-style-type: none"> ■ 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices

Chipset	<ul style="list-style-type: none"> ■ Intel® C621 chipset
SATA	<ul style="list-style-type: none"> ■ SATA3 (6Gbps) with RAID 0, 1, 5, 10
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	<ul style="list-style-type: none"> ■ ASPEED AST2500 BMC

Input / Output

SATA	<ul style="list-style-type: none"> ■ 2 SATA3 (6Gbps) ports, 2 miniSAS ports
LAN	<ul style="list-style-type: none"> ■ 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ■ 2 USB 3.0 ports (rear)
Video	<ul style="list-style-type: none"> ■ 1 VGA port
Serial Header	<ul style="list-style-type: none"> ■ 1 Fast UART 16550 header

System BIOS

BIOS Type	<ul style="list-style-type: none"> ■ AMI 32Mb SPI Flash ROM
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Dimensions and Weight

Height	<ul style="list-style-type: none"> ■ 1.7" (43mm)
Width	<ul style="list-style-type: none"> ■ 17.2" (437mm)
Depth	<ul style="list-style-type: none"> ■ 30.6" (777mm)
Weight	<ul style="list-style-type: none"> ■ Net Weight: 45 lbs (15.9 kg) ■ Gross Weight: 58 lbs (21.8 kg)
Available Color	<ul style="list-style-type: none"> ■ Black

Front Panel

Buttons	<ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button
LEDs	<ul style="list-style-type: none"> ■ Power LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> ■ 4 PCI-E 3.0 x16 (FHFL) slots ■ 1 PCI-E 3.0 x8 (in x16, LP) slot
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> ■ 4 Hot-swap 2.5" drive bays
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System Cooling

Fans	<ul style="list-style-type: none"> ■ 10 Heavy duty 4cm counter-rotating fans with air shroud & optimal fan speed control
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Power Supply

1600W 1U Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> ■ 1000W/1600W
Dimension (W x H x L)	<ul style="list-style-type: none"> ■ 73.5 x 40 x 265 mm
Input	<ul style="list-style-type: none"> ■ 100-127Vac / 12.9A Max / 50-60Hz ■ 200-240Vac / 9.5A Max / 50-60Hz
+12V	<ul style="list-style-type: none"> ■ Max: 82A / Min: 0.1A (100-127Vac) ■ Max: 132A / Min: 0.1A (200-240Vac)

Management	
Software	<ul style="list-style-type: none"> ■ Intel® Node Manager ■ IPMI 2.0 ■ KVM with dedicated LAN ■ SSM, SPM, SUM ■ SuperDoctor® 5 ■ Watch Dog
Power Configurations	<ul style="list-style-type: none"> ■ ACPI / APM Power Management
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 SB	<ul style="list-style-type: none"> ■ Max: 2A / Min: 0.2A
Output Type	<ul style="list-style-type: none"> ■ 25 Pairs Gold Finger Connector
Certification	 Platinum Level
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)