



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. 4 PCI-E 3.0 x16 (double-width) slots, 2 PCI-E 3.0 x16 (single-width) slots, 1 PCI-E 3.0 x4 (in x8 slot),
M.2 Interface: PCI-E 3.0 x4
M.2 Form Factor: 2280, 22110
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

Motherboard

Super X11DPG-QT

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	<ul style="list-style-type: none"> ■ Up to 28 Cores with Intel® HT Technology

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	<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); 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	<ul style="list-style-type: none"> ■ ASPEED AST2500 BMC

Input / Output

SATA	<ul style="list-style-type: none"> ■ 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)

Dimensions and Weight

Height	<ul style="list-style-type: none"> ■ 18.2" (462mm)
Width	<ul style="list-style-type: none"> ■ 7.0" (178mm)
Depth	<ul style="list-style-type: none"> ■ 26.5" (673mm)
Package	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 2 Front USB 3.0 Ports

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> ■ 4 PCI-E 3.0 x16 (double-width) slots ■ 2 PCI-E 3.0 x16 (single-width) slots ■ 1 PCI-E 3.0 x4 (in x8 slot)
M.2	<ul style="list-style-type: none"> ■ M.2 Interface: PCI-E 3.0 x4 ■ Form Factor: 2280, 22110

Drive Bays



Hot-swap	<ul style="list-style-type: none"> ■ 8 Hot-swap 3.5" drive bays
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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	<ul style="list-style-type: none"> ■ 2 Active heatsink with optimal fan speed control

Power Supply

Video	<ul style="list-style-type: none"> 1 VGA port
Serial Port/Header	<ul style="list-style-type: none"> 2 COM ports (1 rear, 1 Header)
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI 32Mb SPI Flash ROM
Management	
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

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	<ul style="list-style-type: none"> 50-60Hz
Dimension (W x H x L)	<ul style="list-style-type: none"> 76 x 40 x 336 mm
+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

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)