



Key Features

- 48 DDR4 DIMM Slots, up to 6TB
- Up to 11 PCI-E 3.0 slots
- 4 Hot-Swap NVMe Bays support via optional NVMe AOC
- Flexible Connectivity Options

1. Quad socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
2. Up to 6TB 3DS LRDIMM, up to DDR4-2666MHz; 48 DIMM slots
3. 5 PCI-E 3.0 x8 slots, 6 PCI-E 3.0 x16 slots
4. 4 GbE LAN ports via AOC-2UR66-i4G 1 dedicated IPMI LAN port
5. 24 Hot-swap 2.5" SAS3/SATA3 drive bays supported via optional Add-on RAID controller card; 4 Hybrid ports with NVMe support via extra AOC
6. Optional up to 2 Active Cooling GPUs
7. 4x 8cm heavy duty fans
8. 1600W 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 X11QPH+

Processor/Cache

CPU	<ul style="list-style-type: none"> ▪ Quad Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s ▪ Support CPU TDP 70-165W with IVR, 205W supported with optional kit
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"> ▪ 48 DIMM slots ▪ Up to 6TB ECC 3DS LRDIMM, 6TB ECC RDIMM, DDR4 2666MHz
Memory Type	<ul style="list-style-type: none"> ▪ 2666MHz ECC DDR4 SDRAM

On-Board Devices

Chipset	<ul style="list-style-type: none"> ▪ Intel® C621 chipset
SATA	<ul style="list-style-type: none"> ▪ SATA3 via Intel C621; RAID 0, 1, 5, 10
Network Connectivity	<ul style="list-style-type: none"> ▪ 4 Gigabit Ethernet ports via AOC-2UR66-i4G; Other options
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"> ▪ 12 SATA3 (6Gbps) ports
SAS	<ul style="list-style-type: none"> ▪ 24 SAS3 ports support via optional Add-on Cards
NVMe	<ul style="list-style-type: none"> ▪ 4 Hybrid ports with NVMe support via AOC
LAN	<ul style="list-style-type: none"> ▪ 4 RJ45 GbE LAN ports ▪ 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 Connector

Dimensions and Weight

Width	<ul style="list-style-type: none"> ▪ 17.2" (437mm)
Height	<ul style="list-style-type: none"> ▪ 3.5" (89mm)
Depth	<ul style="list-style-type: none"> ▪ 30.7" (780mm)
Weight	<ul style="list-style-type: none"> ▪ Net Weight: 43 lbs (19.4 kg) ▪ Gross Weight: 69 lbs (31.2 kg)
Available Colors	<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 status LED ▪ HDD activity LED ▪ Network activity LEDs ▪ System information (overheat/UID) LED

Expansion Slots

	<ul style="list-style-type: none"> ▪ 5 PCI-E 3.0 x8 slots ▪ 6 PCI-E 3.0 x16 slots
PCI-Express	<p>(4 CPUs need to be installed for full access to PCI-E slots and onboard controllers.)</p>

Drive Bays

Hot-swap	<ul style="list-style-type: none"> ▪ 24 Hot-swap 2.5" SAS3/SATA3 drive bays ▪ Optional 24 SAS3 ports via AOC ▪ Optional 20 SAS3 ports via AOC + 4 NVMe ports via AOC
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System Cooling

Fans	<ul style="list-style-type: none"> ▪ 4x 8cm heavy duty PWM fans
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Power Supply

	<p>1600W Redundant Power Supplies with PMBus</p>
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 203 mm

Serial Port / Header	<ul style="list-style-type: none"> 1 COM port (rear)
DOM	<ul style="list-style-type: none"> 2 SuperDOM (Disk on Module) ports
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
Management	
Software	<ul style="list-style-type: none"> SuperDoctor® 5 Watch Dog NMI SUM IPMI 2.0
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Power-on mode for AC power recovery
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

Input	<ul style="list-style-type: none"> 100-127Vac / 13 - 9A / 50-60Hz 200-240Vac / 10 - 8A / 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 83.3A / Min: 0A (100-127Vac) Max: 133A / Min: 0A (200-240Vac)
12Vsb	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector

Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level
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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)