



Key Features

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 2TB ECC 3DS L/RDIMM, up to DDR4-2666MHz; 16 DIMM slots
3. 4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 slots
4. 2x 1GbE LAN ports
5. 7.1 HD Audio
6. 8 Hot-swap 3.5" SAS3/SATA3 drive bays (SATA3 default), 1 M.2 slot, 2 NVMe support with opt. cables
7. 1200W High-efficiency Power Supply **Platinum Level Certified**

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

Specifications

Motherboard

Super X11DAI-N

Processor/Cache

CPU	<ul style="list-style-type: none"> ■ Dual Socket P (LGA 3647) ■ Intel® Xeon® Scalable Processors, Dual 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, up to 2TB ECC 3DS RDIMM, DDR4 up to 2666MHz
Memory Type	<ul style="list-style-type: none"> ■ 2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
DIMM Sizes	<ul style="list-style-type: none"> ■ RDIMM: 64GB ■ LRDIMM: 64GB ■ 3DS LRDIMM: 128GB
Memory Voltage	<ul style="list-style-type: none"> ■ 1.2V
Error Detection	<ul style="list-style-type: none"> ■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)

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"> ■ Dual LAN with GbE from C621
IPMI	<ul style="list-style-type: none"> ■ ASPEED AST2500
Audio	<ul style="list-style-type: none"> ■ RealTek ALC888 7.1 High Definition Audio with S/PDIF header

Input / Output

SATA	<ul style="list-style-type: none"> ■ 10 SATA3 (6Gbps) ports
NVMe	<ul style="list-style-type: none"> ■ 2 NVMe support with optional cables
LAN	<ul style="list-style-type: none"> ■ 2 RJ45 Gigabit Ethernet LAN ports
USB	<ul style="list-style-type: none"> ■ 6 USB 3.0 ports (4 rear, 2 front) ■ 2 USB 3.1 ports (rear)
Audio	<ul style="list-style-type: none"> ■ 7.1 HD Audio with optical S/PDIF
Video	<ul style="list-style-type: none"> ■ 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> ■ 1 COM port (header)

Dimensions and Weight

Height	<ul style="list-style-type: none"> ■ 17.8" (452mm)
Width	<ul style="list-style-type: none"> ■ 7.0" (178mm)
Depth	<ul style="list-style-type: none"> ■ 25.5" (648mm)
Gross Weight	<ul style="list-style-type: none"> ■ 71 lbs (32.2 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 LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Overheat / Fan 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 slots ■ 2 PCI-E 3.0 x8 slots
M.2	<ul style="list-style-type: none"> ■ Interface: PCIe 3.0 x4 ■ Form Factor: M-Key 2260, 2280, 22110

Drive Bays

Hot-swap	<ul style="list-style-type: none"> ■ 8 Hot-swap 3.5" SAS3/SATA3 drive bays (SATA3 default)
Peripheral Bay(s) [90° Rotatable]	<ul style="list-style-type: none"> ■ 3x 5.25" drive bays

Backplane

Supports 8 SATA3 or 8 SAS3 HDD

System Cooling

Fans	<ul style="list-style-type: none"> ■ 2 Super quiet PWM chassis fans (support up to 4 fans) ■ 1 Super quiet rear fan with optimal fan speed control
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Power Supply

1200W high-efficiency power supply w/ PMBus

DOM	<ul style="list-style-type: none"> 2 SuperDOM (Disk on Module) ports
TPM	<ul style="list-style-type: none"> 1 TPM 2.0 Header
System BIOS	
BIOS Type	<ul style="list-style-type: none"> UEFI 128M
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 SSM, SPM, SUM SuperDoctor® 5 Watchdog
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

AC Input	<ul style="list-style-type: none"> 1000W: 100-114.9 V, 50-60 Hz, 12 Amp 1200W: 114.9-240 V, 50-60 Hz, 12-8 Amp
DC Output	<ul style="list-style-type: none"> +3.3V / +5V / +12V / -12V / +5VSB
1000W max	<ul style="list-style-type: none"> 20A / 20A / 83A / 0.3A / 3A
1200W max	<ul style="list-style-type: none"> 20A / 20A / 99A / 0.3A / 3A
Note:	<ul style="list-style-type: none"> Max. continuous combined load on +3.3V and +5V output shall not exceed 120W.

Certification	  Platinum Certified
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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)