

SuperServer 1029UX-LL2-S16 (Complete System Only)



Integrated Board



X11DPU-XLL

Views: | [Angled View](#) | [Top View](#) |
| [Front View](#) | [Rear View](#) |

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (including but not limited to CPU, memory, and SSD). At least one low-latency NIC from this [list](#) must be selected and installed into the system.

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [NVMe Options](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#) ▶ [Quick-References Guide](#) ▶ [Drive Options](#)

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

Qualified low latency NICs [here](#)
World Record Performance [White Paper](#)
STAC® report [here](#)
RedHat® OpenShift Collaboration [here](#)

Key Features

Financial Analysis
Business Critical Applications
Enterprise Server

1. Dual Socket P (LGA 3647) support (Intel® Xeon® Gold 6146 included)
2. Up to 2TB 3DS ECC LRDIMM, up to DDR4-2666MHz; 16 DIMM slots (12x 16GB DDR4-2666MHz included)
3. 2 PCI-E 3.0 x16 slots (FH, 10.5"/10" L), 1 PCI-E 3.0 x8 (LP), 1 PCI-E 3.0 x8 (internal SAS3 integrated 3108)
4. 4 Gigabit Ethernet ports
5. 8 Hot-swap 2.5" SAS3 drive Bays; 2 Hot-swap NVMe bays
6. 8 heavy duty fans w/ optimal fan speed control
7. 750W Redundant Power Supplies **Platinum Level (94%+)**

Specifications

Product SKUs

SYS-1029UX-LL2-S16	<ul style="list-style-type: none"> SuperServer 1029UX-LL2-S16 (Black)
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Motherboard

Super X11DPU-XLL

Processor

CPU	<ul style="list-style-type: none"> Dual Socket P (LGA 3647) Intel® Xeon® Gold 6146 included
Cores	<ul style="list-style-type: none"> Up to 12 Cores

System Memory

Memory Capacity	<ul style="list-style-type: none"> 16 DIMM slots Up to 2TB 3DS ECC L/RDIMM, up to DDR4-2666MHz 12x 16GB DDR4-2666MHz included
Memory Type	<ul style="list-style-type: none"> 2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C621 chipset
SATA	<ul style="list-style-type: none"> SATA3 (disabled)
SAS	<ul style="list-style-type: none"> Broadcom 3108 controller for 8 SAS3 ports
Network Connectivity	<ul style="list-style-type: none"> 4 Gigabit Ethernet ports via AOC-UR-i4G (Intel® i350AM4)
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

SAS	<ul style="list-style-type: none"> 8 SAS3 ports support via integrated 3108 Add-on Card
LAN	<ul style="list-style-type: none"> 4 RJ45 Gigabit Ethernet 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)
Video	<ul style="list-style-type: none"> 1 VGA port
Serial Port	<ul style="list-style-type: none"> 1 COM Port (1 rear)

System BIOS

BIOS Type	<ul style="list-style-type: none"> AMI UEFI
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Management

Software	<ul style="list-style-type: none"> <u>IPMI 2.0</u> KVM with dedicated LAN NMI <u>SSM, SPM, SUM</u> <u>SuperDoctor® 5</u> Watchdog
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Chassis

Form Factor	<ul style="list-style-type: none"> 1U Rackmount
Model	<ul style="list-style-type: none"> CSE-119UTS-R751P-T

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"> 28.5" (724mm)
Weight	<ul style="list-style-type: none"> Gross Weight: 48 lbs (21.77 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"> 2 PCI-E 3.0 x16 (1 Full-height, 10.5" L; 1 Full-height, 10") 1 PCI-E 3.0 x8 (Low Profile) 1 PCI-E 3.0 x8 (Internal SAS3 integrated 3108) <p>(See manual block diagram and AOC Support for details.)</p>
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> 8 Hot-swap 2.5" SAS3 drive bays 2 Hot-swap 2.5" NVMe
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System Cooling

Fans	<ul style="list-style-type: none"> 8 heavy duty fans with optimal fan speed control
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Power Supply

750W Redundant AC-DC Power Supplies, +12V/+12Vsb output	
AC Input	<ul style="list-style-type: none"> 100-127Vac, 50-60Hz 200-240Vac, 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 62.5A & Min: 0A (100Vac-127Vac) Max: 62.5A & Min: 0A (200Vac-240Vac)
12V SB	<ul style="list-style-type: none"> Max: 2.1A Min: 0A

Certification	 Platinum Level [Test Report]
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Operating Environment

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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PC Health Monitoring**CPU**

- Monitors for CPU Cores, Chipset Voltages, Memory.
- 4+1 Phase-switching voltage regulator

FAN

- Fans with tachometer monitoring
- Status monitor for speed control
- Pulse Width Modulated (PWM) fan connectors

Temperature

- Monitoring for CPU and chassis environment
- Thermal Control for fan connectors

Environmental Spec.

- 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)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPU-XLL	1	Super X11DPU-XLL Motherboard
	CSE-119UTS-R751P-T	1	CSE-119UTS-R751P-T Chassis
FAN	FAN-0101L4	8	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
Power Supply	PWS-751P-1R	2	1U 750W Redundant Platinum Single Output Power Supply w/Pmbus W73.5xH40xL203mm,RoHS/REACH
CPU	P4X-LL26146	2	LL2 Only, SKL 6146 12C/24T 3.2G 24.75M 10.4GT 165W
Memory	MEM-DR416L-SL02-ER26	12	16GB DDR4-2666 1Rx4 LP ECC REG DIMM
Storage Control Card	AOC-S3108L-H8iR	1	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)

Optional Parts List

	Part Number	Qty	Description
CacheVault(s)	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108; Supercap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N	-	CacheVault for Broadcom 3108; Supercap mounting bracket for 2.5" HDD location
1U Cable Management Arm	MCP-290-00152-0N	1	1U Supermicro Cable Management Arm 2nd Gen
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)