

SuperServer 1029UX-LL3-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 6154 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" 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-LL3-S16 | <ul style="list-style-type: none"> SuperServer 1029UX-LL3-S16 (Black) |
|---------------------------|--|

Motherboard

Super X11DPU-XLL

Processor

| | |
|--------------|---|
| CPU | <ul style="list-style-type: none"> Dual Socket P (LGA 3647) Intel® Xeon® Gold 6154 included |
| Cores | <ul style="list-style-type: none"> Up to 18 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

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

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|-----------------|---|
| 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 |
|-----------------|---|

Chassis

| | |
|--------------------|--|
| Form Factor | <ul style="list-style-type: none"> 1U Rackmount |
| Model | <ul style="list-style-type: none"> CSE-119UTS-R1K02P-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> |
|--------------------|--|

Drive Bays

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

System Cooling

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

Power Supply

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|---|--|
| 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] |
|----------------------|---|

Operating Environment

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|-------------|--|
| RoHS | <ul style="list-style-type: none"> RoHS Compliant |
|-------------|--|

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 ~ 30°C (50°F ~ 86°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-R1K02P-T | 1 | CSE-119UTS-R1K02P-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-LL36154 | 2 | LL3 Only, SKL 6154 18C/36T 3G 24.75M 10.4GT 200W |
| 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 | OS4HR3/2/1 | - | 3/2/1-year onsite 24x7x4 service |
| | OSNBD3/2/1 | - | 3/2/1-year onsite NBD service |
| Software | SFT-OOB-LIC • eStore | 1 | OOB Management Package (per node license) |
| Software | SFT-DCMS-Single | 1 | DataCenter Management Package (per node license) |