

# SuperServer 1029UX-LL1-S16 (Complete System Only)



Due to the complexity of integration, this product is sold as a completely assembled system only (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. Please contact your Supermicro sales rep for special requirements.

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

- **Qualified low latency NICs** [here](#)

## Key Features

- **Financial Analysis**
- **Business Critical Applications**
- **Enterprise Server**

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s (Intel® Xeon® Gold 6144 included)
2. Up to 2TB ECC 3DS LRDIMM or RDIMM, 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%+)

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

## Specifications

### Product SKUs

SYS-1029UX-LL1-S16	▪ SuperServer 1029UX-LL1-S16 (Black)
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### Motherboard

[Super X11DPU-XLL](#)

### Processor/Cache

CPU	<ul style="list-style-type: none"> <li>▪ Dual Socket P (LGA 3647)</li> <li>▪ Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s</li> <li>▪ Intel® Xeon® Gold 6144 included</li> </ul>
Cores	▪ Up to 8 Cores with Intel® HT Technology

### System Memory

Memory Capacity	<ul style="list-style-type: none"> <li>▪ 16 DIMM slots</li> <li>▪ Up to 2TB ECC 3DS LRDIMM, 2TB ECC RDIMM, DDR4 up to 2666MHz</li> </ul>
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### Chassis

Form Factor	▪ 1U Rackmount
Model	▪ CSE-119UTS-R751P-T


### Dimensions and Weight

Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 28.5" (724mm)
Weight	▪ Gross Weight: 48 lbs (21.77 kg)
Available Color	▪ Black

### Front Panel

Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>▪ Power LED</li> <li>▪ Hard drive activity LED</li> <li>▪ Network activity LEDs</li> </ul>

Memory Type	<ul style="list-style-type: none"> <li>12x 16GB DDR4-2666MHz included</li> <li>2666/2400/2133MHz ECC DDR4 SDRAM</li> </ul>
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C621 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (disabled)</li> </ul>
SAS	<ul style="list-style-type: none"> <li>Broadcom 3108 controller for 8 SAS3 ports</li> </ul>
Network Connectivity	<ul style="list-style-type: none"> <li>4 Gigabit Ethernet ports via AOC-UR-i4G (Intel® i350AM4)</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Input / Output</b>	
SAS	<ul style="list-style-type: none"> <li>8 SAS3 ports support via integrated 3108 Add-on Card</li> </ul>
LAN	<ul style="list-style-type: none"> <li>4 RJ45 Gigabit Ethernet ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>5 USB 3.0 ports (2 rear, 2 via header, 1 Type A)</li> </ul>
Video	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
Serial Port	<ul style="list-style-type: none"> <li>1 COM Port (1 rear)</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>AMI UEFI</li> </ul>
<b>Management</b>	
Software	<ul style="list-style-type: none"> <li>IPMI 2.0</li> <li>KVM with dedicated LAN</li> <li>NMI</li> <li>SSM, SPM, SUM</li> <li>SuperDoctor® 5</li> <li>Watchdog</li> </ul>
<b>PC Health Monitoring</b>	
CPU	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, Chipset Voltages, Memory.</li> <li>4+1 Phase-switching voltage regulator</li> </ul>
FAN	<ul style="list-style-type: none"> <li>Fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for fan connectors</li> </ul>

	<ul style="list-style-type: none"> <li>System Overheat LED / Fan fail LED / UID LED</li> </ul>
<b>Expansion Slots</b>	
PCI-Express	<ul style="list-style-type: none"> <li>2 PCI-E 3.0 x16 (1 Full-height, 10.5" L; 1 Full-height, 10")</li> <li>1 PCI-E 3.0 x8 (Low Profile)</li> <li>1 PCI-E 3.0 x8 (Internal SAS3 integrated 3108)</li> </ul> <p>(See manual block diagram and <a href="#">AOC Support</a> for details.)</p>
<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>8 Hot-swap 2.5" SAS3 drive bays</li> <li>2 Hot-swap 2.5" NVMe</li> </ul>
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>8 heavy duty fans with optimal fan speed control</li> </ul>
<b>Power Supply</b>	
750W Redundant AC-DC Power Supplies, +12V/+12Vsb output	
AC Input	<ul style="list-style-type: none"> <li>100-127Vac, 50-60Hz</li> <li>200-240Vac, 50-60Hz</li> </ul>
+12V	<ul style="list-style-type: none"> <li>Max: 62.5A &amp; Min: 0A (100Vac-127Vac)</li> <li>Max: 62.5A &amp; Min: 0A (200Vac-240Vac)</li> </ul>
12V SB	<ul style="list-style-type: none"> <li>Max: 2.1A</li> <li>Min: 0A</li> </ul>
Certification	 Platinum Level <a href="#">[ Test Report ]</a>
<b>Operating Environment</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)</li> <li>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## 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-LL16144	2	LL1 Only, SKL 6144 8C/16T 3.5G 24.75M 10.4GT 150W
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-CV3108-1U1	-	CacheVault for Broadcom 3108 with Supercap mounting in 1U 40x56 fan tray
	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	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)