SuperServer 1029UX-LL4-C16 (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** ▶**Drive Options**

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

Key Features

Qualified low latency NICs here
Financial Analysis
Business Critical Applications
Enterprise Server

1. Dual Socket P (LGA 3647) support (Intel® Xeon® Gold 6246R included)

2. 16 DIMMs; up to 4TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM, (12x 16GB DDR4-2933MHz 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-LL4-C16	SuperServer 1029UX-LL4-C16 (**Black**)

Motherboard

Super X11DPU-XLL

Processor

CPU	Dual Socket P (LGA 3647) Intel® Xeon® Gold 6246R included

System Memory

Memory Capacity	16 DIMM slots Up to 4TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM 12x 16GB DDR4-2933MHz included
Memory Type	2933†/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
Note	† 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro †† Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

Chipset	Intel® C621 chipset
SATA	SATA3 (disabled)
SAS	Broadcom 3108 controller for 8 SAS3 ports
Network Connectivity	4 Gigabit Ethernet ports via AOC-UR-i4G (Intel® i350AM4)
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	ASPEED AST2500 BMC

Input / Output

SAS	8 SAS3 ports support via integrated 3108 Add-on Card
LAN	4 RJ45 Gigabit Ethernet ports 1 RJ45 Dedicated IPMI LAN port
USB	5 USB 3.0 ports (2 rear, 2 via header, 1 Type A)
Video	1 VGA port
Serial Port	1 COM Port (1 rear)

System BIOS

BIOS Type	AMI UEFI

Management

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	Power On/Off button System Reset button
LEDs	Power LED Hard drive activity LED Network activity LEDs System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express	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) **(See manual block diagram and AOC Support for details.)**

Drive Bays

Hot-swap	8 Hot-swap 2.5" SAS3 drive bays (SSD only) 2 Hot-swap 2.5" NVMe Note: due to thermal limitation, this SKU can only support up to 4 drives.

System Cooling

Fans	8 heavy duty fans with optimal fan speed control

Power Supply

750W Redundant AC-DC Power Supplies, +12V/+12Vsb output

AC Input	100-127Vac, 50-60Hz 200-240Vac, 50-60Hz
+12V	Max: 62.5A & Min: 0A (100Vac-127Vac) Max: 62.5A & Min: 0A (200Vac-240Vac)
12V SB	Max: 2.1A Min: 0A
Certification	**Platinum Level** [**Test Report**]

Software
- IPMI 2.0
- KVM with dedicated LAN
- NMI
- SSM, SPM, SUM
- SuperDoctor® 5
- Watchdog

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

Operating Environment

RoHS
- RoHS Compliant

Environmental Spec.
- Operating Temperature:
  10°C ~ 20°C (50°F ~ 68°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-0141L4	8	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
CPU	P4X-LL46246R	2	Intel® Xeon® Gold 6254
Memory	MEM-DR416L-SL02-ER29	12	16GB DDR4-2933 1Rx4 LP ECC RDIMM,HF,RoHS
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
Power Supply	PWS-751P-1R	2	1U 750W Redundant Platinum Single Output Power Supply w/Pmbus W73.5xH40xL203mm,RoHS/REACH
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)