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

Integrated Board

X11DPU-XLL

Views: | **Angled View** | **Top View** |
| **Front View** | **Rear View** |

Qualified low latency NICs <u>here</u>
World Record Performance <u>White Paper</u>
STAC® report <u>here</u>
RedHat® OpenShift Collaboration <u>here</u>

Key Features

   Financial Analysis
   Business Critical Applications
   Enterprise Server

1. Dual Socket P (LGA 3647) support
   (Intel® Xeon® Gold 6144 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%+)

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 <u>list</u> 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.

Specifications

Product SKUs

SYS-1029UX-LL1-S16	SuperServer 1029UX-LL1-S16 (**Black**)

Motherboard

Super X11DPU-XLL

Processor

CPU	Dual Socket P (LGA 3647) Intel® Xeon® Gold 6144 included
Cores	Up to 8 Cores

System Memory

Memory Capacity	16 DIMM slots Up to 2TB 3DS ECC L/RDIMM, up to DDR4-2666MHz 12x 16GB DDR4-2666MHz included
Memory Type	2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

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

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

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 2 Hot-swap 2.5" NVMe

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	80 PLUS PLATINUM　94%　Platinum Level [Test Report]

Operating Environment

RoHS	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 ~ 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-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-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-DCMS-Single	1	DataCenter Management Package (per node license)