SuperServer 1028UX-LL3-B8 (Complete System Only)

Integrated Board

X10DRU-XLL

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

Qualified low latency NICs here

Key Features

Support Hyper-Speed

1. Dual Intel® Xeon® processor
   E5-2689 v4 (Broadwell)

2. 8x 8GB DDR4-2400MHz (Default), up to
   DDR4- **2400**†MHz ; 16 DIMM slots

3. Expansion slots via riser card:
   2 PCI-E 3.0 x16, Full-height, 10.5" Length
   1 PCI-E 3.0 x8, Low-profile
   1 PCI-E 3.0 x8 SAS3 integrated

4. 4 Gigabit Ethernet LAN ports

5. Integrated IPMI 2.0 with KVM and
   Dedicated LAN

6. 10 Hot-swap 2.5" Drive Bays:
   8 SAS3 (Broadcom 3108), 2 SATA3,
   2 NVMe ports support via
   optional AOC-URN2-I2XT
   (with 2x 10GBase-T ports)

7. 8 heavy duty fans w/ optimal
   fan speed control

8. 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 HDDs). 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** ▸**Network Card (AOC) Matrix**

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

Specifications

Product SKUs

SYS-1028UX-LL3-B8	SuperServer 1028UX-LL3-B8 (**Black**)

Motherboard

Super X10DRU-XLL

Processor/Cache

CPU	**Intel® Xeon® processor E5-2689 v4 (Included) *** Dual Socket R3 (LGA 2011)
Cores / Cache	Up to 10 Cores / Up to 25MB Cache
System Bus	QPI up to 9.6 GT/s
Note	† BIOS version 2.0 or above is required
Note	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory

Memory Capacity	8x 8GB DDR4-2400MHz (Default) 16x 288-pin DDR4 DIMM slots Up to 2TB† ECC 3DS LRDIMM, 768GB ECC RDIMM
Memory Type	**2400†**/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB 3DS LRDIMM: 128GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors

On-Board Devices

Chipset	Intel® C612 chipset
SAS	Broadcom 3108 SAS3 (12Gbps) controllers; RAID 0, 1, 5, 6, 10, 50 support
SATA	SATA3 (6Gbps) with RAID 0, 1, 5, 10
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2400 BMC
Graphics	ASPEED AST2400 BMC

Input / Output

SAS	8 SAS3 (12Gbps) ports
SATA	2 SATA3 (6Gbps) ports
NVMe	2 NVMe ports support via optional Ultra Riser card (AOC-URN2-i2XT)
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)

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)
Gross Weight	48 lbs (21.8 kg)
Available Color	Black

Front Panel

Buttons	Power On/Off button System Reset button
LEDs	Power LED Hard drive activity LED 2 Network activity LEDs System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express	**Expansion slots via riser card:** 2 PCI-E 3.0 x16, Full-height, 10.5" Length 1 PCI-E 3.0 x8, Low-profile 1 PCI-E 3.0 x8 SAS3 integrated

Drive Bays

Hot-swap	8 Hot-swap 2.5" SAS3 drive bays 2 Hot-swap 2.5" SATA3 drive bays Optional NVMe support: 2 NVMe via AOC-URN2-I2XT (w/ 2x 10GBase-T ports)

System Cooling

Fans	8 heavy duty fans with optimal fan speed control
Air Shroud	2 Air Shroud

Power Supply

750W Redundant Power Supplies with PMBus

Total Output Power	750W: 100 – 127Vac 750W: 200 – 240Vac
Dimension (W x H x L)	73.5 x 40 x 203 mm
Input	100-127Vac / 9.5A Max / 50-60Hz 200-240Vac / 4.5A Max / 50-60Hz
+12V	Max: 62.5A / Min: 0A
12V SB	Max: 2.1A / Min: 0A
Output Type	25 Pairs Gold Finger Connector
Certification	**Platinum Level** [Test Report]

Video	1 VGA Connector
Serial Port / Header	1 Fast UART 16550 serial 1 COM port (rear)

System BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP) APM 1.2 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1

PC Health Monitoring

CPU	Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages. CPU Core 6-Phase-switching voltage regulator
FAN	Total of eight 4-pin PWM fans 8x fans with tachometer monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors PSU I^{2}C temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	Power Fail / Overheat LED Suspend-state Indicator LED UID LED
Other Features	SDDC Support

Operating Environment / Compliance

RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 10°C to 20°C (50°F to 68°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRU-XLL	1	Super X10DRU-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
Air Shroud	MCP-310-81907-0N	2	SC819UT PLASTIC AIR SHROUD 16 DIMM
Add-on Card	AOC-S3108L-H8IR-16DD	1	SAS-3, GEN-3 RAID card. Supports 12Gb and R0,1,5,6,10,50 and 60. Includes 2GB memory
Add-on Card	AOC-UR-I4G-O-P	1	1U Ultra Riser based on Intel i350AM4 controller with 4 GbE RJ45 ports and 1 internal PCI-E x8 3.0 slot
CPU	P4X-DP2689V4L3	2	BDW-EP E5-2689 v4 3.1G 9.6GT 165W R3 2011 M0
Memory	MEM-DR480L-SL02-ER24	8	8GB DDR4-2400 1Rx4 LP ECC REG DIMM
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Power Supply	PWS-751P-1R	2	1U 750W Redundant Platinum Single Output Power Supply w/Pmbus W73.5xH40xL203mm,RoHS/REACH

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
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)