

SuperServer 1028UX-LL2-B8 (Complete System Only)



Integrated Board



X10DRU-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 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.

Qualified low latency NICs [here](#)

Key Features

Support **Hyper-Speed**

1. Dual Intel® Xeon® processor E5-2687W v4
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%+)**

Specifications

Product SKUs

SYS-1028UX-LL2-B8	<ul style="list-style-type: none"> SuperServer 1028UX-LL2-B8 (Black)
--------------------------	---

Motherboard

Super X10DRU-XLL

Processor/Cache

CPU	<ul style="list-style-type: none"> Intel® Xeon® processor E5-2687W v4 (Included) * Dual Socket R3 (LGA 2011)
Cores / Cache	<ul style="list-style-type: none"> Up to 12 Cores / Up to 30MB Cache
System Bus	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 8x 8GB DDR4-2400MHz (Default) 16x 288-pin DDR4 DIMM slots Up to 2TB† ECC 3DS LRDIMM, 768GB ECC RDIMM
Memory Type	<ul style="list-style-type: none"> 2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB 3DS LRDIMM: 128GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SAS	<ul style="list-style-type: none"> Broadcom 3108 SAS3 (12Gbps) controllers; RAID 0, 1, 5, 6, 10, 50 support
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1, 5, 10
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 ASPEED AST2400 BMC
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

SAS	<ul style="list-style-type: none"> 8 SAS3 (12Gbps) ports
SATA	<ul style="list-style-type: none"> 2 SATA3 (6Gbps) ports
NVMe	<ul style="list-style-type: none"> 2 NVMe ports support via optional Ultra Riser card (AOC-URN2-i2XT)
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)

Chassis

Form Factor	<ul style="list-style-type: none"> 1U Rackmount
Model	<ul style="list-style-type: none"> CSE-119UTS-R751P-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)
Gross Weight	<ul style="list-style-type: none"> 48 lbs (21.8 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 2 Network activity LEDs System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express	Expansion slots via riser card: <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 8 heavy duty fans with optimal fan speed control
Air Shroud	<ul style="list-style-type: none"> 2 Air Shroud

Power Supply

750W Redundant Power Supplies with PMBus

Total Output Power	<ul style="list-style-type: none"> 750W: 100 – 127Vac 750W: 200 – 240Vac
Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 203 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 9.5A Max / 50-60Hz 200-240Vac / 4.5A Max / 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 62.5A / Min: 0A
12V SB	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector

Certification



Platinum Level

[[Test Report](#)]

Video	<ul style="list-style-type: none"> 1 VGA Connector
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 serial 1 COM port (rear)

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors PSU I²C temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> Power Fail / Overheat LED Suspend-state Indicator LED UID LED
Other Features	<ul style="list-style-type: none"> SDDC Support

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 30°C (50°F to 86°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

Parts List - (Items Included)

	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-0101L4	8	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
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-DPE52687WV4-SR2NA	2	BDW-EP 12C/24T E5-2687W v4 3G 30M 9.6GT 160W 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
	BTR-TFM8G-LSICVM02	-	40x56 fan tray
	& 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	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)