

SuperServer 8049U-E1CR4T(Complete System Only)



Integrated Board



(/products/motherboard/Xeon/C620/X11QPH_.cfm).

Super X11QPH+ (/products/motherboard/Xeon/C620/X11QPH_.cfm).

Views: | **Angled View** (/a_images/products/views/8049U-E1CR4T_angle.jpg) | **Top View** (/a_images/products/views/8049U-E1CR4T_top.jpg) |

Front View (/a_images/products/views/8049U-E1CR4T_front.jpg) | **Rear View** (/a_images/products/views/8049U-E1CR4T_rear.jpg) |

Key Features

4-Way MP

Up to 112 cores per system

In-Memory Database Application

ERP, CRM

Business Intelligence

Scientific Computing

Scale-up HPC

Cloud and Virtualization needs

1. Quad Socket P (LGA 3647) support 2nd Gen. Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[†]
2. 48 DIMMs; up to 12TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
3. 6 PCI-E 3.0 x16 slots, 10 PCI-E 3.0 x8 slots
Up to 6 double width passive GPUs
4. 4x 10GBase-T LAN ports via AOC-4UR66-I4XTF-P
5. 24 Hot-swap 3.5" SAS3/SATA3 drive bays supported via optional Add-on RAID controller card; 8 Hybrid ports with NVMe support via optional AOC
6. 8x 9cm heavy duty fans
7. 1600W (3+1) Redundant Power Supplies, **Platinum Level (96%)**

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (with minimum 4 CPUs, 4 DIMMs and 1 HDD recommended). Please contact your Supermicro sales rep for special 2 CPUs with 2 DIMMs requirements with fees.

[Drivers & Utilities](#) **[BIOS](#)** **[IPMI](#)** **[Tested Memory](#)** **[NVMe Options](#)**

[Manuals](#)

[OS Certification Matrix](#)

[/support/resources/OS/OS_Certification_Intel.cfm?](/support/resources/OS/OS_Certification_Intel.cfm)

[MProduct_Name=SYS-8049U-E1CR4T](#)

[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-8049U-E1CR4T
SuperServer 8049U-E1CR4T (**Black**)

Motherboard

Super X11QPH+
(/products/motherboard/Xeon/C620/X11QPH_.cfm).

Processor/Cache

CPU
Quad Socket P (LGA 3647)
2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors[†],
3 UPI up to 10.4GT/s
Support CPU TDP 70-205W
Cores
Up to 28 Cores
Note
[†] BIOS version 3.0a or above is required to support 2nd Gen Intel® Xeon® Scalable processors

System Memory

Memory Capacity
48 DIMM slots
Up to 12TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM
Supports Intel® Optane™ DCPMM^{††}
Memory Type
2933[†]/2666MHz 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 (SSD only) via Intel C621; RAID 0, 1
Network Connectivity
4x 10GBase-T LAN ports via AOC-4UR66-I4XTF-P; [Other options](/support/resources/aoc/aoc_compatibility_ultra.cfm) (/support/resources/aoc/aoc_compatibility_ultra.cfm)
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

SATA
2 SATA3 (SSD only) (6Gbps) ports at rear
SAS
24 SAS3 ports support via optional Add-on Cards
NVMe
8 Hybrid ports with NVMe support via AOC
LAN
4x 10GBase-T RJ45 LAN ports
1 RJ45 Dedicated IPMI LAN port
USB
2 USB 3.0 ports (rear)
Video
1 VGA Connector
Serial Port / Header
1 COM port (rear)

Chassis

Form Factor
4U Rackmount
Model
CSE-848UTS-R4800P

Dimensions and Weight

Width
17.2" (437mm)
Height
6.9" (177mm)
Depth
34.5" (876mm)
Weight
Net Weight: 74.5 lbs (33.79 kg)
Gross Weight: 115 lbs (52.16 kg)
Available Colors
Black

Front Panel

Buttons
Power On/Off button
System Reset button
LEDs
Power status LED
HDD activity LED
Network activity LEDs
System information (overheat/UID) LED

Expansion Slots

PCI-Express
6 PCI-E 3.0 x16 slots
10 PCI-E 3.0 x8 slots
(4 CPUs need to be installed for full access to PCI-E slots and onboard controllers)
See [AOC Support](/products/nfo/UIO.cfm?show=AOCSupport) (</products/nfo/UIO.cfm?show=AOCSupport> details.)

Drive Bays

Hot-swap
24 Hot-swap 3.5" SAS3/SATA3 drive bays
Optional 24 SAS3 ports via AOC
Optional 16 SAS3 ports via AOC + 8 NVMe ports via AOC

System Cooling

Fans
8x 9cm heavy duty fans with speed control

AC/DC240V Input Redundant Power Supply

1000 / 1600W 1U Redundant Power Supply
Total Output Power
1000W: 100 – 127Vac
1600W: 200 – 240Vac
1600W: 200 – 240Vdc (for CCC only)
Dimension (W x H x L)
73.5 x 40 x 185 mm
Input
100 -- 127Vac / 13.8A / 47-63Hz
200 -- 240Vac / 9.6A / 47-63Hz
200 -- 240Vdc / 8.5A (CCC Only)
+12V
Max: 83A / Min: 0A (1000W)
Max: 132A / Min: 0A (1600W)
12Vsb
Max: 2.1A / Min: 0A

DOM
2 Super**DOM** ([/SATADOM/](#)). (Disk on Module) ports

System BIOS

BIOS Type
128Mb SPI Flash EEPROM with AMI BIOS

Management

Software
[SuperDoctor® 5 \(/products/nfo/SMS_SD5.cfm\)](#)
Watch Dog
NMI
[SUM \(/products/nfo/SMS_SUM.cfm\)](#)
IPMI 2.0
Power Configurations
ACPI Power Management
Power-on mode for AC power recovery

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

Parts List

Output Type
Gold Finger
Certification

(<http://www.plugloadsolutions.com/80PlusPowerSupply?id=69&type=2>). **Platinum Certified**

Operating Environment

RoHS
RoHS Compliant
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:

Global SKU ([/zh_tw/products/SMC_global_skus](#))