

# SuperServer 1029P-MT



**Integrated Board**



**Super X11DPL-i**

**Views: | [Angled View](#) | [Top View](#) |  
| [Front View](#) | [Rear View](#) |**

**[▶ Drivers & Utilities](#) | [▶ BIOS](#) | [▶ IPMI](#) | [▶ Tested Memory](#) | [▶ Tested M.2 List](#) | [▶ 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.

## Key Features

- Data Center Optimized**
- Web Server**
- Enterprise Server**
- Managed Hosting**
- Short Depth**

---

1. Dual Socket P (LGA 3647) support  
2nd Gen. Intel® Xeon® Scalable  
processors (Cascade Lake/Skylake)‡

---

2. 8 DIMMs; up to 2TB 3DS ECC  
DDR4-2933MHz† RDIMM/LRDIMM

---

3. 1 PCI-E 3.0 x8 (FHHL) slot

---

4. 8 Hot-swap 2.5" SATA3 drive bays,  
1 Slim DVD-ROM drive (optional),  
Optional PCIe/SATA M.2 drive  
M.2 holder: MCP-450-00003-0N

---

5. 2 1GbE LAN ports via Marvell 88E1512

---

6. IPMI 2.0 + KVM with Dedicated LAN

---

7. 1 VGA, 2 USB 2.0 (rear)

---

8. 2 SuperDOM (Disk on Module) ports;  
1 PCIe/SATA M.2 drive connector

---

9. 600W High-Efficiency Power Supply  
**Platinum Level Certified**

---

# Specifications

## Product SKUs

- SYS-1029P-MT** ■ SuperServer 1029P-MT (Black)

## Motherboard

### Super X11DPL-i

## Processor/Cache

- CPU** ■ Dual Socket P (LGA 3647)
  - 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)‡, Dual UPI up to 10.4GT/s
  - Support CPU TDP 70-140W with IVR

- 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** ■ 8 DIMM slots
  - Up to 2TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM

- 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

## On-Board Devices

- Chipset** ■ Intel® C621 chipset

- SATA** ■ SATA3 (6Gbps); RAID 0, 1, 5, 10

- Network Controllers** ■ Marvell 88E1512 PHY Gigabit Ethernet controller
  - Supports 1000BASE-T

- IPMI** ■ Support for Intelligent Platform Management Interface v.2.0
  - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

- Video** ■ ASPEED AST2500 BMC

## Input / Output

- SATA** ■ 8 SATA3 (6Gbps) ports

- LAN** ■ 2 RJ45 Gigabit Ethernet LAN ports
  - 1 RJ45 Dedicated IPMI LAN port

- USB** ■ 2 USB 2.0 ports (rear)

- Video** ■ 1 VGA port

- Serial Port / Header** ■ 1 COM port (header)

- DOM** ■ 2 SuperDOM (Disk on Module) ports

## System BIOS

- BIOS Type** ■ 256Mb SPI Flash EEPROM with AMI BIOS

## Management

## Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-113MFAC2-605CB**

## Dimensions and Weight

- Width** ■ 17.2" (437mm)

- Height** ■ 1.7" (43mm)

- Depth** ■ 19.98" (508mm)

- Package** ■ 23.4" (W) x 8.5" (H) x 29.7" (L)

- Weight** ■ Gross Weight: 29.8 lbs (13.5 kg)

- Available Colors** ■ Black

## Front Panel

- Buttons** ■ Power On/Off button
  - System Reset button

- LEDs** ■ Power status LED
  - HDD activity LED
  - Network activity LEDs
  - Universal Information (UID) LED

## Expansion Slots

- PCI-Express** ■ 1 PCI-E 3.0 x8 (FHHL) slot

## Drive Bays

- Hot-swap** ■ 8 Hot-swap 2.5" SATA3 drive bays

## Peripheral Drives

- Optional** ■ 1 Slim DVD-ROM drive (optional)
  - PCIe/SATA M.2 drive (optional)

## System Cooling

- Fans** ■ 4x 4cm 22.5K RPM middle cooling fans

## Power Supply

600W High-Efficiency Power Supply w/PMBus 1.2, PFC, and Digital Switching

- AC Input** ■ 100-240V, 50-60Hz

- DC Output** ■ +3.3V: 15A
  - +5V: 18A
  - +5V standby: 3A
  - +12V: 49A
  - -12V: 0.5A

## Certification



Platinum Certified  
[ [Test Report](#) ]

## Operating Environment

- RoHS** ■ RoHS Compliant

---

<b>Software</b>	<ul style="list-style-type: none"><li>■ Intel® Node Manager</li><li>■ <u>IPMI 2.0</u></li><li>■ KVM with dedicated LAN</li><li>■ NMI</li><li>■ SSM, SPM, SUM</li><li>■ <u>SuperDoctor® 5</u></li><li>■ Watch Dog</li></ul>
-----------------	--

---

<b>Power Configurations</b>	<ul style="list-style-type: none"><li>■ ACPI / APM Power Management</li></ul>
-----------------------------	---

---

---

<b>Environmental Spec.</b>	<ul style="list-style-type: none"><li>■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)</li><li>■ Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</li><li>■ Operating Relative Humidity: 8% to 90% (non-condensing)</li><li>■ Non-operating Relative Humidity: 5% to 95% (non-condensing)</li></ul>
----------------------------	--

---

#### PC Health Monitoring

---

<b>CPU</b>	<ul style="list-style-type: none"><li>■ Monitors for CPU Cores, Chipset Voltages, Memory.</li><li>■ 4+1 Phase-switching voltage regulator</li></ul>
------------	---

---

<b>FAN</b>	<ul style="list-style-type: none"><li>■ Fans with tachometer monitoring</li><li>■ Status monitor for speed control</li><li>■ Pulse Width Modulated (PWM) fan connectors</li></ul>
------------	---

---

<b>Temperature</b>	<ul style="list-style-type: none"><li>■ Monitoring for CPU and chassis environment</li><li>■ Thermal Control for fan connectors</li></ul>
--------------------	---

---

# Parts List

## Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPL-i	1	Super X11DPL-i Motherboard
	CSE-113MFAC2-605CB	1	1U Chassis
<b>Backplane</b>	BNP-SAS3-113A-N2	1	8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices
<b>Cable 1</b>	CBL-SAST-0631	2	MINI SAS HD-4 SATA,6G,INT,RF,Cross Over,55CM,55CM SB,30AWG
<b>Parts</b>	MCP-260-00111-0N	1	1U I/O Shield for X11DPL-i with EMI Gasket
<b>Air Shroud</b>	MCP-310-19015-0N	1	SC813M,SC113M, DP X9DRL-EF/ X9DRL-7F/ X10DRL-i, X9/X10 mylar air shroud, 12
<b>Manual</b>	MNL-2012-QRG	1	1029P-MT/MTR Quick Reference Guide
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8
<b>Heatsink / Retention</b>	SNK-P0067PD	2	1U Passive Proprietary CPU Heat Sink for X11DPL Motherboard Equipped with a Square Retention Mechanism
<b>* Power Supply</b>	PWS-605P-1H	1	1U 600W Multi Output Power Supply PMbus
<b>* Cable 2</b>	CBL-0160L	1	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
<b>* Cable 3</b>	CBL-0335L	1	CBL,FRONT CNTL,20 TO 20 PIN,RA,RND TUBE,73CM,28AWG
<b>* FAN 1</b>	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
<b>* Front Panel</b>	FPB-FP112	1	Front control board for SC113,113M (U/C share
<b>* Drive Tray(s)</b>	MCP-220-00047-0B	8	Black gen 3rd hot-sw ap 2.5inch HDD tray
<b>* Rear Window</b>	MCP-240-00085-0N	1	STD rear window for SC113 single PWS
<b>* Parts</b>	MCP-260-00078-0N	1	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF
<b>* Peripheral Drive 1</b>	MCP-290-00036-0B	1	Black DVD dummy tray support 1x2.5 HDD for SC113,815,825,836
<b>* Parts</b>	MCP-290-00037-0N	1	SC113 Control panel module (w/o DVD)
<b>* Rail Set</b>	MCP-290-00102-0N	1set	Outer rail, quick-release type, 25.6" to 33.05"
<b>* Rail Set</b>	MCP-290-00107-0N	1set	Inner rail, front, short, screw type
<b>* Rail Set</b>	MCP-290-00110-0N	1set	Inner rail, extension (quick) for 1U 17.2
<b>* Fan Holder</b>	MCP-320-00031-0B	1	Fan tray for six 40x28 fans(SC813M/113M)
<b>* Parts</b>	MCP-340-00001-01	2	Dummy fan 40x28mm

### Notes:

1. Parts with \* are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

## Optional Parts List

	Part Number	Qty	Description
<b>NVMe AOC card</b>	AOC-SLG3-2E4T	1	2 Port NVMe PCI-E x8 Redriver Card
<b>Cable</b>	CBL-SAST-0929	2	OcuLink v 1.0 source to MiniSAS HD,INT,PCIe, 57CM,34AWG
	CBL-SAST-0531	2	MINI SAS HD,12G,INT,80CM,30AWG

<b>Storage Controller Card(s) &amp; Cables(s)</b>	AOC-S3108L-H8iR-16DD & 2x CBL-SAST-0531	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3008L-L8i & 2x CBL-SAST-0531	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 63HDD; RAID 0, 1, 10
	AOC-S3008L-L8e & 2x CBL-SAST-0531	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 122HDD; HBA
	AOC-S2308L-L8e & 2x CBL-SAST-0631	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 122HDD; HBA (Cable included in system)
	AOC-S2308L-L8i & 2x CBL-SAST-0631	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 63HDD; RAID 0, 1, 10 (Cable included in system)
	AOC-S2208L-H8iR & 2x CBL-SAST-0631	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 240HDD; RAID 0, 1, 5, 6, 10, 50, 60 (Cable included in system)
<b>Network Card(s)</b>	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® i350AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel® i350
	AOC-SG-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® 82575EB
	AOC-SG-i4	-	Standard LP, 4x GbE RJ45, PCI-E x8, Intel® 82576EB
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom® BCM57840S
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STGN-i1S	-	Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel® X540
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel® 82598EB
<b>DVD-ROM / DVD-RW</b>	DVM-PNSC-DVD-SBT3	-	BLACK PANASONIC SLIM DVD ROM SATA DRIVE
	DVM-TEAC-DVD-SBT3	-	BLACK TEAC SLIM DVD ROM SATA DRIVE
	DVM-PLDS-DVDRW-SBT4	-	PHILIPS SLIM BLACK DVD-RW SATA DRIVE
	DVM-TEAC-DVDRW-SBT2	-	BLACK TEAC SLIM DVD-RW SATA DRIVE
<b>DVD-ROM Accessory</b>	MCP-220-81502-0N	-	Slim SATA DVD kit for SC213,219,813,815,818,819,825,828,829,836,842
<b>TPM 2.0</b>	AOM-TPM-9670V	1	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
<b>Global Services &amp; Support</b>	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
<b>Software</b>	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
<b>Software</b>	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)