

SuperServer 1029P-MT



Integrated Board



Super X11DPL-i

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

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

Key Applications

Data Center Optimized
Web Server
Enterprise Server
Managed Hosting
Short Depth

Key Features

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

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

- Cores** ■ Up to 28 Cores

- Note** [‡] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

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

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, I²C, 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

Management**Software**

- Intel® Node Manager
- IPMI 2.0
- KVM with dedicated LAN
- NMI
- SSM, SPM, SUM
- SuperDoctor® 5
- Watch Dog

Power Configurations

- ACPI / APM Power Management

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

Notes:

- Parts with * are inside the chassis
- 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
NVMe AOC card	AOC-SLG3-2E4T	1	2 Port NVMe PCI-E x8 Redriver Card
Cable Management Arm	MCP-290-00152-0N	1	1U Supermicro Cable Management Arm 2nd Gen
Cable	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
Storage Controller Card(s) & Cables(s)	AOC-S3108L-H8IR-16DD + 2x CBL-SAST-0531 + 1x FAN-0154L4	-	8 internal ports, 12Gb/s per port- Gen3, 16HDD, RAID 0, 1, 5, 6, 10, 50, 60; Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s
	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

Network Card(s)	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
	DVD-ROM / DVD-RW	DVM-PNSC-DVD-SBT3	-
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
DVD-ROM Accessory	MCP-220-81502-0N	-	Slim SATA DVD kit for SC213,219,813,815,818,819,825,828,829,836,842
TPM 2.0	AOM-TPM-9670V	1	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
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-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)