

SuperServer 6019P-MT



Integrated Board



Super X11DPL-i

Views: | [Angled View](#) | [Top 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 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. 4 Hot-swap 3.5" SATA3 drive bays
Optional PCIe/SATA M.2 drive
M.2 holder: MCP-450-00003-0N
5. 2 GbE 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. 500W High-Efficiency Power Supply
Platinum Level Certified

Specifications

Product SKUs

SYS-6019P-MT ■ SuperServer 6019P-MT (**Black**)

Motherboard

Super X11DPL-i

Processor/Cache

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

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 ■ 4 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 Super**DOM** (Disk on Module) ports

System BIOS

BIOS Type ■ 256Mb SPI Flash EEPROM with AMI BIOS

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-813MF2TQC-505CB**

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: 28.7 lbs (13.0 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button

LEDs ■ Power status LED
 ■ HDD activity LED
 ■ Network activity LEDs

Expansion Slots

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

Drive Bays

Hot-swap ■ 4 Hot-swap 3.5" SATA3 drive bays

Backplane

SAS2/SATA3 Backplane

System Cooling

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

Power Supply

500W High-Efficiency Power Supply w/PMBus 1.2, I²C, and PFC

AC Input ■ 100-240V, 50-60Hz, 6.6A max

DC Output ■ +3.3V: 12A
 ■ +5V: 15A
 ■ +5V standby: 3A
 ■ +12V: 41A
 ■ -12V: 0.2A

Certification



Platinum Certified

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-813MF2TQC-505CB	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
Cable 1	CBL-0186L	1	SATA,INT,ROUND,SET OF 4,ST-RA 56/45.5/35/23CM,26AWG
Cable 2	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
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-2013-QRG	1	6019P-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-505P-1H	1	1U 500W Multi-output, Platinum level w/ PMbus 24pin, W100xL180xH40mm,RoHS/REACH
* Cable 3	CBL-0071L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,75CM,28AWG
* Peripheral Drive 1	CSE-PT93L-B	1	Black DVD dummy cover for SC813, 813M, 815, PBF-RoHS
* FAN 1	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
* Front Panel	FPB-FP813-D	1	Front control board dual color for SC815,SC813M (C)
* Drive Tray(s)	MCP-220-00075-0B	4	Black gen 5.5 hot-swap 3.5"; HDD tray
* 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
* Parts	MCP-260-00111-0N	1	1U I/O Shield for X11DPL-i with EMI Gasket
* Rail Set	MCP-290-00102-0N	1set	Outer rail, quick-release type, 25.6" to 33.05"
* Rail Set	MCP-290-00108-0N	1set	Inner rail, front, short, quick-release type
* Rail Set	MCP-290-00110-0N	1set	Inner rail, extension (quick) for 1U 17.2
* Fan Holder	MCP-320-00060-0N	1	Fan tray for six 40x28 fans in SC813M (for X11DPL-i 12"x10.15")
* Parts	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
Cable Management Arm	MCP-290-00152-0N	1	1U Supermicro Cable Management Arm 2nd Gen
Storage Control Card and Cable(s)	AOC-S3108L-H8IR-16DD + 1x CBL-SAST-0699 + 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 4 SATA,12G,INT,75/75/90/90CM,75CM
Cable	CBL-SAST-0699	1	MINI SAS HD-4 SATA,12G,INT,75/75/90/90CM
HDD tray converter	MCP-220-00043-0N	-	Black hot-swap gen 4 3.5" to 2.5" HDD tray

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 x4, 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	-	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
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)