

SuperServer 5019P-M



Key Features

- **Web Hosting, VM**
- **Compact Network Appliance**

1. Single socket P (LGA 3647) supports Intel® Xeon® Scalable Processors
2. Intel® C621 chipset
3. 4 Hot-swap 3.5" SATA3 bays w/ RAID
4. Up to 768GB ECC 3DS LRDIMM, up to DDR4-2666MHz; 6 DIMM slots
5. 1 PCI-E 3.0 x16 slot (FH, HL)
6. 2x 1GbE with Marvell® 88E1512
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 1 VGA, 2 COM, 5 USB 3.0, 6 USB 2.0
9. 350W High-efficiency Power Supply **Platinum Level Certified**

- [▶ Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#)
[▶ Tested M.2 List](#) ▶ [OS Certification Matrix](#) ▶ [Quick-References Guide](#) ▶ [Drive Options](#)


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

Specifications

Product SKUs	
SYS-5019P-M	▪ SuperServer 5019P-M (Black)
Motherboard	
Super X11SPM-F	
Processor/Cache	
CPU	▪ Single Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors ▪ Support CPU TDP 70-165W with IVR
Cores	▪ Up to 28 Cores with Intel® HT Technology
System Memory	
Memory Capacity	▪ 6 DIMM slots ▪ Up to 768GB ECC 3DS LRDIMM, 192GB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	▪ 2666/2400/2133MHz ECC DDR4 SDRAM
On-Board Devices	
Chipset	▪ Intel® C621 chipset
SATA	▪ SATA3 (6Gbps) via C621 controller ▪ RAID 0, 1, 5, 10 support

Chassis	
Form Factor	▪ 1U Rackmount
Model	▪ CSE-813MFTQC-350CB
Dimensions and Weight	
Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 19.8" (503mm)
Package	▪ 8.5" (H) x 24" (W) x 29.5" (D)
Weight	▪ Gross Weight: 30.4 lbs (13.8 kg) ▪ Net Weight: 17.6 lbs (8 kg)
Available Colors	▪ Black
Front Panel	
Buttons	▪ Power On/Off button ▪ System Reset button
LEDs	▪ Power LED ▪ Hard drive activity LED ▪ Network activity LEDs ▪ System Overheat LED
Expansion Slots	

Network Controllers	<ul style="list-style-type: none"> Dual Gigabit Ethernet LAN with Marvell® 88E1512
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
Video	<ul style="list-style-type: none"> ASPEED AST2500 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> 4 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 1GbE LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 4 USB 3.0 ports (2 front, 2 rear) 2 USB 2.0 ports (rear)
Video	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2 COM ports (1 rear, 1 header)
SuperDOM	<ul style="list-style-type: none"> 2 <u>SuperDOM</u> (Disk on Module) ports with built-in power
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI UEFI
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI <u>SPM, SUM</u> <u>SuperDoctor® 5</u> Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

PCI-Express	<ul style="list-style-type: none"> 1 PCI-E 3.0 x16 slot (FH, HL)
Drive Bays / Storage	
Hot-swap	<ul style="list-style-type: none"> 4 Hot-swap 3.5" SATA3 drive bays
M.2	<ul style="list-style-type: none"> Interface: PCIe 3.0 x4 Form Factor: 2242, 2280
Peripheral Drives	
Optional	<ul style="list-style-type: none"> Optional slim optical device bay, optional FDD/USB bay
System Cooling	
Fans	<ul style="list-style-type: none"> 4x 40x28mm PWM fans; 2x 40x28mm PWM fans Optional 2 fans for AOC cooling
Power Supply	
350W AC power supply w/ PFC	
AC Voltage	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 4.2-1.8 Amp
+5V	<ul style="list-style-type: none"> Max.: 15 Amp Min.: 0.2 Amp
+5V standby	<ul style="list-style-type: none"> Max.: 3 Amp Min.: 0 Amp
+12V	<ul style="list-style-type: none"> Max.: 29 Amp Min.: 0.5 Amp
-12V	<ul style="list-style-type: none"> Max.: 0.2 Amp Min.: 0 Amp
+3.3V	<ul style="list-style-type: none"> Max.: 12 Amp Min.: 0.2 Amp
Certification	 Platinum Level Certified [Test Report]
Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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-X11SPM-F	1	Super X11SPM-F Motherboard
	CSE-813MFTQC-350CB	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5" SAS3/SATA3 HDD/SSD
Cable 1	CBL-SAST-0644	1	MINI SAS(RA)-4 SATA(RA),INT,75/75/90/90CM,90CM SB,30AWG
Parts	MCP-120-00031-0N	1	Riser card bracket for SC812,813,813M,815,111,113,113M
Manual	MNL-2008-QRG	1	5019P-M/MR Quick Reference Guide
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0067PS	1	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply (180mm)
FAN 1	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH