

SuperServer 5019C-MHN2



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



Key Applications

General Purpose, SMB, Web Hosting
Application and data serving
Archiving, Mail/Finance, Security

Key Features

- Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E-2100 / E-2200 series, 8th/9th Gen. Intel® Core™ i9/i7/i5/i3 Processors, Intel® Celeron®, Intel® Pentium®
- Intel® C246 chipset
- Up to 128GB ECC/non-ECC UDIMM, up to DDR4-2666MHz; 4 DIMM slots
- 1 PCI-E 3.0 x16 slot
- 4 Hot-swap 3.5" drive bays
- M.2 Interface:**
1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4
M.2 Form Factor: 2280/22110
M.2 Key: M-Key
- 2 GbE LAN ports, 1 dedicated IPMI LAN
- 2 USB 3.1 (rear), 2 USB 2.0 (rear)
- 1 VGA, 1 COM, 1 TPM header
- 350W Multi-output power supply, Platinum Level Certified

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [Tested M.2 List](#) | [Manuals](#) | [OS Certification Matrix](#) | [Quick-References Guide](#) | [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-5019C-MHN2	SuperServer 5019C-MHN2 (Black)
Motherboard	
Super X11SCZ-F	
Processor	
CPU	Single Socket H4 (LGA 1151), CPU TDP support up to 95W Support Intel® Xeon® processor E-2100 / E-2200 series, 8th/9th Gen. Intel® Core™ i9/i7/i5/i3 Processors, Intel® Celeron®, Intel® Pentium®
System Memory	
Memory Capacity	4 DIMM slots Up to 128GB Unbuffered ECC/non-ECC UDIMM Up to DDR4-2666MHz
Memory Type	2666/2400/2133MHz ECC DDR4 SDRAM
DIMM Sizes	32GB, 16GB, 8GB, 4GB
Note	128GB system memory capacity will be available in 2019 through a published BIOS update.
On-Board Devices	
Chipset	Intel® C246 chipset
SATA	SATA3 (6Gbps) via Intel C246 controller RAID 0, 1, 5, 10 support
IPMI	ASPEED AST2500
Network Controllers	Dual LAN with Intel® I210-AT
Audio	ALC 888S HD Audio
Video	ASPEED AST2500 BMC
Input / Output	
SATA	5 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
LAN	2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	2 USB 3.1 ports (rear) 2 USB 2.0 ports (rear)
Video	VGA D-Sub Connector port, 1 DVI - I port, 2 DP (DisplayPort) ports 3 independent displays
Serial Port / Header	1 COM port (header) 1 TPM 2.0 Header
System BIOS	
BIOS Type	UEFI 256Mb
BIOS Features	ACPI 6.0 SMBIOS 2.7 Plug and Play (PnP) RTC (Real Time Clock) Wakeup UEFI 2.7 USB Keyboard support PCI 3.0
Management	
Software	Intel® Node Manager IPMI 2.0 NMI SSM , SPM , SUM Watch Dog SuperDoctor® 5

Chassis	
Form Factor	1U Rackmount
Model	CSE-813MFTQC-350CB2
Dimensions and Weight	
Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	19.8" (483mm)
Package	8.5" (H) x 23.4" (W) x 29.7" (D)
Weight	Gross Weight: 32 lbs (14.52 kg) Net Weight: 18 lbs (8.16 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 Information LED
Expansion Slots	
PCI-Express	1 PCI-E 3.0 x16 slot
M.2	M.2 Interface: 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key
Drive Bays	
Hot-swap	4 Hot-swap SAS/SATA 3.5" drive bays
System Cooling	
Fans	5x 40x28mm PWM fans
Power Supply	
350W AC power supply w/ PFC	
AC Voltage	100-240 V, 50-60 Hz, 5.0-2.5 Amp
+5V	Max.: 15 Amp Min.: 0.2 Amp
+5V standby	Max.: 3 Amp Min.: 0 Amp
+12V	Max.: 29 Amp Min.: 0.5 Amp
-12V	Max.: 0.2 Amp Min.: 0 Amp
+3.3V	Max.: 12 Amp Min.: 0.2 Amp
Certification	Platinum Level Certified [Test Report]
PC Health Monitoring	
CPU	Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
FAN	6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
Temperature	Monitoring for CPU and chassis environment, CPU thermal trip support, Thermal Monitor 2 (TM2) support, PECl
Operating Environment / Compliance	
RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 0°C to 40°C (32°F to 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°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-X11SCZ-F	1	Super X11SCZ-F Motherboard
	CSE-813MFTQC-350CB2	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
Cable 1	CBL-0488L	1	SATA,INT,ROUND,ST-RA,55CM,30AWG
Cable 2	CBL-CDAT-0660	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,27CM,28AWG
Cable 3	CBL-SAST-0639	2	SATA,INT,ROUND,ST-RA,31CM,30AWG
Cable 4	CBL-SAST-0641	1	SATA,INT,ROUND,ST-RA,45CM,30AWG
Cable 5	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Parts	MCP-260-00127-0N	1	1U I/O Shield for X11SCZ with EMI Gasket
Air Shroud	MCP-310-19007-0N	1	SC811/SC512L/SC512F/SC813M/SC113M/SC513L-410B/SC513L-420B/SC513F, UP X9SRE/I, X9 Mylar Air Shroud, 12"x9.6" MB
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0049P	1	1U Passive Enhanced Performance CPU Heat Sink for Intel Socket H Series Processors
* Power Supply	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply (180mm)
* Cable 5	CBL-0071L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,75CM,28AWG
* Cable 6	CBL-PWCD-0160-IS	1	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,13A,125V,ROHS/REACH
* Peripheral Drive 1	CBL-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
* 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-320-00031-0B	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
3.5" to 2.5" Converter Tray	MCP-220-00043-0N	-	Black Hot-swap Gen-4 2.5" to 3.5" HDD tray
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5DVM-PLDS-DVDRW-SBT5	11	TEAC slim DVD-ROM SATA drivePHILIPS slim DVD-RW SATA drive
DVD-ROM Accessory	MCP-220-81502-0N	1	Slim SATA DVD mounting kit
Internal 2.5" HDD Tray (FDD slot)	MCP-220-83601-0B	1	Black FDD dummy tray support 1x 2.5" slim HDD
Internal 2.5" HDD Tray (DVD slot)	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" slim HDD
Cable for internal HDD	CBL-0484LCBL-0289L	21	55cm 30AWG SATA straight to straight cableY split, big 4 pin to two RA SATA power estension 30cm
Hot-swap 2.5" kit (FDD slot)	MCP-220-81504-0N	1	Single slim 2.5" SAS3 (12Gb/s) hot swap in slim FDD form factor
Hot-swap 2.5" kit (DVD slot)	MCP-220-81506-0N	1	Single slim 2.5" SAS3 (12Gb/s) hot swap in slim DVD form factor
Cooling Fan	FAN-0154L4	-	40x40x28mm 22.5K RPM, SC813MF Middle Cooling Fan
Storage Controller card & cable	AOC-S3108L-H8IR & 1x CBL-SAST-0811 AOC-S3108L-H8IR-16DD & 1x CBL-SAST-0811 AOC-S3008L-L8i & 1x CBL-SAST-0811 AOC-S3008L-L8e & 1x CBL-SAST-0811	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, RAID controller, RAID 0, 1, 5, 6, 10, 50, 60 Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, 16HDD RAID controller, RAID 0, 1, 5, 6, 10, 50, 60 Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD, RAID 0, 1, 10 Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
Network Card(s)	AOC-SGP-i2 AOC-SGP-i4 AOC-STGN-i2S AOC-STGF-i2S AOC-STG-B4S AOC-STGS-i2T AOC-S25G-b2S AOC-S25G-m2S	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350-AM2 Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350 Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel X710-BM2 Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2 Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom BCM57414 Standard LP, 2x 25GbE SFP28, PCI-E x8, Mellanox CX-4 LX
Front Bezels	CSE-PTFB-813LB AOM-PTFB-813-02B	-	Black front bezels Black Front Bezel w/ Round Venting Holes
TPM security module	CEM-TPM-9665VAOM-TPM-9655V	11	TPM 2.0, vertical form factorTPM 1.2, vertical form factor
Global Services & Support	OS4HR3/2/1 OSNBD3/2/1	-	3/2/1-year onsite 24x7x4 service 3/2/1-year onsite NBD service

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