

SuperServer 5019C-M4L



Integrated Board



Super X11SCL-LN4F

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

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

Key Applications

**Entry level, Cost effective
Compact, less than 15" depth**

Key Features

1. Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E-2100 / E-2200 series, 8th/9th Gen. Intel® Core™ i3 Processors, Intel® Celeron®, Intel® Pentium®
2. Intel® C242 chipset
3. Up to 128GB ECC UDIMM, up to DDR4-2666MHz; 4 DIMM slots
4. 1 PCI-E 3.0 x16 slot
5. 1 Fixed 3.5" drive support (default); up to 2 Fixed 3.5" drives or 3 Fixed 2.5" drives (opt.)
6. **M.2 Interface:** 1 PCI-E 3.0 x4
M.2 Form Factor: 2280/22110
M.2 Key: M-Key
7. 4 GbE LAN ports, 1 dedicated IPMI LAN
8. 2 USB 3.1 (rear), 2 USB 2.0 (rear)
9. 1 VGA, 1 COM (header), 1 TPM
10. 350W Multi-output power supply, Platinum Level Certified

Specifications

Product SKUs

SYS-5019C-M4L ■ SuperServer 5019C-M4L (Black)

Motherboard

Super X11SCL-LN4F

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™ i3 / Pentium® / Celeron® Processors

Cores ■ 8 cores, 16 threads

Note ■ BIOS 1.0b or above is required to support Intel® Xeon® processor E-2200 series

System Memory

Memory Capacity ■ 4 DIMM slots
 ■ Up to 128GB Unbuffered ECC UDIMM
 ■ Up to DDR4-2666MHz

Memory Type ■ 2666/2400/2133MHz ECC DDR4 SDRAM

DIMM Sizes ■ 32GB, 16GB, 8GB, 4GB

On-Board Devices

Chipset ■ Intel® C242 chipset

SATA ■ SATA3 (6Gbps) via Intel C242 controller
 ■ RAID 0, 1, 5, 10 support

IPMI ■ ASPEED AST2500

Network Controllers ■ Quad LAN with Intel® I210-AT

Video ■ ASPEED AST2500 BMC

Input / Output

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

LAN ■ 4 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 ■ 1 VGA port

Serial Port / Header ■ 1 COM port (header)

TPM ■ 1 TPM 2.0 Header

System BIOS

BIOS Type ■ UEFI 256Mb

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-512F-350B1**

Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 14.5" (368mm)

Package ■ 6.3" (H) x 22" (W) x 20" (D)

Weight ■ Gross Weight: 17 lbs (7.71 kg)
 ■ Net Weight: 11 lbs (4.99 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 PCI-E 3.0 x4
 ■ M.2 Form Factor: 2280/22110
 ■ M.2 Key: M-Key

Drive Bays

Internal ■ 2x 3.5" or 3x 2.5" drive bays with optional converter kits

System Cooling

Fans ■ 2x 4cm counter-rotating PWM fan

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

-
- 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
-

- 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, PECI
-

Operating Environment / Compliance

- RoHS**
- RoHS Compliant
-

- Environmental Spec.**
- Operating Temperature: 10°C to 35°C (50°F to 95°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-X11SCL-LN4F	1	Super X11SCL-LN4F Motherboard
	CSE-512F-350B1	1	1U Chassis
Parts	MCP-260-00131-0N	1	1U I/O Shield for X11SCL-LN4F with EMI Gasket
Manual	MNL-2153-QRG	1	5019C-M4L Quick Reference Guide
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 1	CBL-0156L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,40CM,28AWG
* Cable 2	CBL-0260L	1	US power cord 18AWG 6ft, PBF (default for low watt)
* Cable 3	CBL-0261L	1	SATA,INT,FLAT,ST-RA,40CM,26AWG
* Cable 4	CBL-0262L	1	PWEX,SATA,1X4M/P5.08 TO 1x4(RA)+1xSATA(RA)+1xFPD,18/22AWG
* FAN 1	FAN-0087L4	2	40x56,4 Pin PWM Fan
* Parts	MCP-260-00024-0N	1	1U I/O shield for X8 server MB (3rd LAN + 4xLAN)
* 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
* Front Panel	MCP-280-51201-0N	1	Front control board (FP512) for SC512 (surface-mounted LED)
* Parts	MCP-290-00005-01	2	Black chassis handle for SC512F-520
* Peripheral Drive 1	MCP-290-00006-01	1	Black DVD dummy cover for SC512, RoHS
* Fan Holder	MCP-320-00003-01	1	Fan holder of two 40x40x56mm fans for SC512F-280

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
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5	1	TEAC slim DVD-ROM SATA drive
	DVM-PLDS-DVDRW-SBT5	1	PHILIPS slim DVD-RW SATA drive
DVD-ROM Accessory	MCP-220-51202-0N	1	Slim SATA DVD mounting kit
Internal 2.5" HDD Tray	MCP-220-00044-0N	-	Dual 2.5" fixed HDD bracket
Internal 2.5" HDD Tray	MCP-220-00051-0N	-	Single 2.5" fixed HDD bracket
Cable for internal HDD	CBL-0484L	-	55cm 30AWG SATA straight to straight cable
	CBI-0082L	-	Y split, big 4 pin to two RA SATA power extension 15cm
Rail Kit	MCP-290-00004-03	1	Chassis inner and outer rail set (25.6" ~ 33.05")
	MCP-290-00056-0N	1	Quick-release outer rail for square hole short-depth rack (19" ~ 26.4")
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350-AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STGN-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGF-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel X710-BM2
	AOC-STG-B4S	-	Standard Lp, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S
	AOC-STGS-i2T	-	Standard Lp, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2
TPM security module	AOM-TPM-9670V	1	TPM 2.0, vertical form factor
	AOM-TPM-9671V	1	TPM 1.2, vertical form factor
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)

Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)
-----------------	------------------------	---	--