

SuperServer 5019S-ML



Integrated Board



Super X11SSH-F

Key Features

- **Mainstream, Entry Appliance**
- **Low Power, Cost effective**

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen. Core™ i3 series
2. Intel® C236 chipset
3. 2x 3.5" Fixed drive bay or 3x 2.5" drive option
4. Up to 64GB ECC/non-ECC UDIMM DDR4 2133MHz; 4x DIMM slots
5. 1x PCI-E 3.0 x8 AOC slot
6. 2x GbE ports with Intel® i210-AT
1x shared IPMI port
7. I/O ports: 1x VGA, 1x COM,
2x USB 2.0, USB 3.0
9. 350W Platinum Level power supply

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

Specifications

Product SKUs

- SYS-5019S-ML** ■ SuperServer 5019S-ML (**Black**)

Motherboard

Super X11SSH-F

Processor/Cache

CPU

- Single Socket H4 (LGA 1151) supports:
- Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core™ i3
- CPU TDP up to 80W

System Memory

Memory Capacity

- 4x 288-pin DDR4 DIMM slots
- Up to 64GB DDR4 ECC UDIMM

Memory Type

- 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs

DIMM Sizes

- 16GB, 8GB, 4GB

Memory Voltage

- 1.2 V

Error Detection

- Corrects single-bit errors
- Detects double-bit errors (using ECC memory)

Chassis

Form Factor

- 1U Rackmount

Model

- **CSE-512F-350B1**

Dimensions and Weight

Height

- 1.7" (43mm)

Width

- 17.2" (437mm)

Depth

- 14.4" (366mm)

Package

- 6.1" (H) x 25.4" (W) x 19.8" (D)

Weight

- Net Weight: 8.45 lbs (3.83 kg)
- Gross Weight: 12.55 lbs (5.69 kg)

Available Colors

- Black

Front Panel

Buttons

- Power On/Off button
- System Reset button

LEDs

- Power LED
- Hard drive activity LED
- 2x Network activity LEDs
- System Overheat LED
- Information LED (temp., status)

Expansion Slots

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C236 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) via C236 controller RAID 0, 1, 5, 10 support
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 ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Dual Intel® I210-AT Gigabit Ethernet LAN ports Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

SATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Shared IPMI LAN port
USB	<ul style="list-style-type: none"> 2x USB 3.0 ports (rear) 2x USB 2.0 ports (rear)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x COM ports (1 rear)
SuperDOM	<ul style="list-style-type: none"> 2x <u>SuperDOM</u> (Disk on Module) ports with built-in power

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
FAN	<ul style="list-style-type: none"> Total of 4 fan headers supporting up to 4 fans 2 fans with tachometer status monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support I²C temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend static indicator LED UID/Remote UID
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header Chipkill support RoHS, Halogen Free

- PCI-Express**
- 1x PCI-E 3.0 x8 AOC slot
 - 1x M.2 connector

Drive Bays

- Fixed**
- 2x 3.5" or 3x 2.5" (option) internal drive bays

System Cooling

- Fans**
- 2x 4cm counter-rotating mid fans

Power Supply

350W AC power supply w/ PFC

- AC Voltage**
- 100-240 V, 50-60 Hz, 4.2-1.8 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](#)]

System BIOS

- BIOS Type**
- 8MB SPI Flash EEPROM with AMI BIOS

BIOS Features

- DMI 2.3
- PCI 2.3
- ACPI 1.0 / 2.0
- USB Keyboard support
- SMBIOS 2.3

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-X11SSH-F	1	Super X11SSH-F Motherboard
	CSE-512F-350B1	1	1U Chassis
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
Cable 1	CBL-0061L	1	35CM end to end, SATA CABLE, PB FREE, 26AWG, flat
Manual	MNL-1797-QRG	1	5019S-ML,QRG,HF,RoHS/REACH
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PCI-E x16 output
Heatsink / Retention	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156
Power Supply	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply