

SuperServer 5019S-MT



Integrated Board



Super X11SSH-TE

Key Features

- Storage HN, VM, Hosting
- Mainstream, Small file server
- Entry Caching Appliance

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen. Core™ i3 series
2. Intel® C236 chipset
3. 4x 3.5" Hot-swap SATA3 bays w/ RAID
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2133MHz; 4x DIMM slots
5. 1 PCI-E 3.0 x8 AOC slot
6. 2x 10GBase-T ports with Intel® X550
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. I/O ports: 1x VGA, 2x COM, 2x USB 3.0 (front/rear), USB 2.0
9. 350W High-efficiency Power Supply Platinum Level Certified

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-MT ■ SuperServer 5019S-MT (Black)

Motherboard

Super X11SSH-TE

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

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
 - 2x Network activity LEDs
 - System Overheat LED

Error Detection	<ul style="list-style-type: none"> ▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)
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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® X550 10GBase-T LAN ports ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10GBASE-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"> ▪ 4x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> ▪ 2x RJ45 10GBase-T LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ▪ 2x USB 3.0 ports (front/rear) ▪ 2x USB 2.0 ports
Video	<ul style="list-style-type: none"> ▪ 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> ▪ 2x COM ports (1 rear, 1 header)
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 ▪ 4 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

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> ▪ 1x PCI-E 3.0 x8 AOC slot
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> ▪ 4x 3.5" Hot-swap SATA3 drive bays
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Peripheral Drives

Optional	<ul style="list-style-type: none"> ▪ 2x 2.5" Fixed drives internal
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Backplane

SAS3/SATA HDD Backplane	<ul style="list-style-type: none"> ▪ (SAS support requires optional SAS controller)
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System Cooling

Fans	<ul style="list-style-type: none"> ▪ 4x 40x28mm 4-pin PWM Cooling Fans
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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](#)]

System BIOS

BIOS Type	<ul style="list-style-type: none"> ▪ 8MB SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> ▪ DMI 2.3 ▪ PCI 2.3 ▪ ACPI 1.0 / 2.0 ▪ USB Keyboard support ▪ SMBIOS 2.3

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> ▪ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> ▪ 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-TF	1	Super X11SSH-TF Motherboard
	CSE-813MFTQC-350CB	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
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5" SAS/SAS HDD/SSD
Cable 1	CBL-0186L	1	SET OF 4 SATA 56/45.5/35/23CM ROUND S-RA. 26AWG
Cable 2	CBL-CDAT-0661	1	8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH
Drive Tray(s)	MCP-220-00129-0B	1	Black 2x USB3.0/COM port tray in slim FDD bay
Manual	MNL-1843-QRG	1	5019S-MT,QRG,HF,RoHS/REACH
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
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 (180mm)