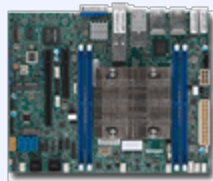


# SuperStorage 5019D8-TR12P (Complete System Only)



## Integrated Board



**X11SDV-8C-TP8F**

Due to the complexity of integration, this product is sold as a completely assembled system only (including but not limited to CPU, memory, and HDDs). Please contact your Supermicro sales rep for special requirements.

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

## Coming Soon

### Key Features

- Warm Storage
- Content Delivery Network (CDNs)
- Web or Database Servers
- Multi-access Edge Computing
- VM and SMB Servers

1. Intel® Xeon® processor D-2146NT, 8-Core, 16 Threads, 80W
2. 12 Hot-swap 3.5" SATA3 bays; SAS3 supported by AOC
3. 1 PCI-E 3.0 x16 (FH) slot; 1 M.2 slot M key and 1 B Key
4. Up to 512GB ECC LRDIMM, up to 256GB reg. ECC RDIMM DDR4-2133Mz; in 4 DIMM slots
5. 2x 1GbE, 2x 10GBase-T, 2x 10G SFP+ and 1 dedicated LAN for IPMI 2.0
6. 1 VGA, 2 USB 3.0, 4 USB 2.0
7. 6x 4cm 4-pin PWM fans
8. 400W Redundant Power Supplies Platinum Level (94%)
9. Built in Intel QAT up to 40Gbps Crypto/Compression

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

## Specifications

### Product SKUs

SSG-5019D8-TR12P ■ SuperServer 5019D8-TR12P (Black)

### Motherboard

[Super X11SDV-8C-TP8F](#)

### Processor/Cache

CPU ■ Intel® Xeon® processor D-2146NT, CPU TDP support 80W

Cores / Cache ■ 8 Cores, 16 Threads

### System Memory

Memory ■ Up to 512GB DDR4 ECC LRDIMM

### Chassis

Form Factor ■ 1U Rackmount

Model ■ CSE-801LTS-R407CP

### Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 32" (813mm)

Gross Weight ■ 32 lbs (14.5kg)

Available Colors ■ Black

### Front Panel

Buttons ■ Power On/Off button  
■ System Reset button

Capacity	<ul style="list-style-type: none"> <li>Up to 256GB DDR4 ECC RDIMM</li> <li>4 DIMM slots</li> </ul>
Memory Type	<ul style="list-style-type: none"> <li>2666/2400/2133MHz ECC DDR4 L/RDIMM</li> <li>Operating speed up to 2133MHz</li> </ul>
DIMM Sizes	<ul style="list-style-type: none"> <li>128GB, 64GB, 32GB, 16GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

#### On-Board Devices

SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) ports via SoC controller</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual 10G SFP+ via SoC</li> <li>Dual 1GbE with Intel I350-AM4</li> <li>Dual 10GBase-T with Intel X557</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>Aspeed AST2500 BMC</li> </ul>

#### Input / Output

SATA	<ul style="list-style-type: none"> <li>12 SATA3 (6Gbps) ports (HDD/SSD)</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2 10G SFP+ ports</li> <li>2 RJ45 1GbE LAN ports</li> <li>2 RJ45 10GBase-T LAN ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>2 USB 3.0 ports (rear)</li> <li>4 USB 2.0 ports (rear)</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
Others	<ul style="list-style-type: none"> <li>TPM 2.0 header</li> </ul>

LEDs	<ul style="list-style-type: none"> <li>Power LED</li> <li>Hard drive activity LED</li> <li>Network activity LEDs</li> <li>System Overheat LED</li> <li>Information LED (temp., status)</li> </ul>
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#### Expansion Slots

PCI-E	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x16 slot</li> <li>1 Mini-PCI-E with mSATA Support</li> </ul>
M.2	<ul style="list-style-type: none"> <li>M.2 Interface: 1 PCI-E 3.0 x4 and 1 SATA/PCI-E 3.0 x2</li> <li>Form Factor: 2242/2280</li> <li>Key: M-Key, B-Key</li> </ul>


#### Drive Bays

Internal	<ul style="list-style-type: none"> <li>12 Hot-swap 3.5" SATA3 drive bays</li> <li>Optional AOC-S3216L-L16iT: support 12x 3.5" SAS3 + 2x 2.5" fixed SAS3/SATA3 or NVMe</li> </ul>
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#### System Cooling

Fans	<ul style="list-style-type: none"> <li>6x 4cm 4-pin fans</li> </ul>
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#### AC/DC240V Input Redundant Power Supplies

400W 1U Redundant Power Supplies with PMbus	
Total Output Power	<ul style="list-style-type: none"> <li>400W</li> </ul>
Dimension (W x H x L)	<ul style="list-style-type: none"> <li>54.5 x 40 x 220 mm</li> </ul>
Input	<ul style="list-style-type: none"> <li>100 - 240Vac / 6.0 - 3.0A / 50-60Hz</li> <li>200 - 240Vdc / 3.4 - 3.2A (CCC Only)</li> </ul>
+12V	<ul style="list-style-type: none"> <li>Max: 33A / Min: 0.5A</li> </ul>
+5V sb	<ul style="list-style-type: none"> <li>Max: 3A / Min: 0A</li> </ul>
Output Type	<ul style="list-style-type: none"> <li>Gold Finger Connector Mating with Molex 45984-4343</li> </ul>
Certification	 <ul style="list-style-type: none"> <li>UL/cUL/CB/CE/BSMI/CCC Platinum Level Certified</li> <li>[ <a href="#">Test Report</a> ]</li> </ul>

#### System BIOS

BIOS Type	<ul style="list-style-type: none"> <li>128Mb SPI Flash with AMI BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>PCI 3.0</li> <li>ACPI 5.0</li> <li>USB Keyboard support</li> <li>Hardware BIOS Virus protection</li> <li>SMBIOS 2.8</li> <li>UEFI 2.4</li> <li>RTC (Real Time Clock) Wakeup</li> </ul>

#### Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SDV-8C-TP8F	1	Super X11SDV-8C-TP8F Motherboard
	CSE-801LTS-R407CP	1	1U Chassis
Backplane	BPN-SAS-801T-A2	2	2-port 1U CSE-801 cold storage backplane with thermistor and individual HDD power cycle, support up to 2x 3.5-inch SAS2/SATA3 HDD/SSD
Backplane	BPN-SAS-801T-A4	2	4-port 1U CSE-801 cold storage backplane with thermistor and individual HDD power cycle, support up to 4x 3.5-inch SAS2/SATA3 HDD/SSD
Cable 1	CBL-0483L	3	SATA,INT,ROUND,ST-ST,29CM,30AWG
Cable 2	CBL-0484L	1	SATA,INT,ROUND,ST-ST,55CM,30AWG
Cable 3	CBL-SAST-0699	2	MINI SAS HD-4 SATA,12G,INT,75/75/90/90CM,75CM SB,28/30AWG,Ro
Parts	MCP-120-00078-0N	1	Optional shorter 1U riser card bracket for X9DRL-7F/EF
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-E8	1	RSC-RR1U-E8
Power Supply	PWS-407P-1R	2	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH
FAN 1	FAN-0147L4	6	40x40x28 mm, 17.5K RPM, SC813MTS Middle Cooling Fan,RoHS/REACH,PBF

## Optional Parts List

	Part Number	Qty	Description
HDD Bracket	MCP-220-00044-0N	-	Retention Bracket for up to 2x 2.5" HDD
SuperDOM	-	-	Supermicro SATA DOM Solutions [ <a href="#">Details</a> ]