

# SuperServer 5018D4-AR12L (Complete System Only)



Due to the complexity of integration, this product is sold as completely assembled systems only (including but not limited to CPUs, memory, and 12 HDDs). Please contact your Supermicro sales rep for special requirements.

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## Key Features

- Cold Storage
- Archiving, Mail/Finance, Security
- Scale-Out Density, VOD Delivery
- Low Power Efficiency Appliance

1. Intel® Xeon® processor D-1518, Single socket FCBGA 1667; 4-Core, 8 Threads, 35W
2. 12x 3.5" SAS2/SATA3 Hot-swap HDD bays
3. Expansion slot: 1x PCI-E 3.0 x8, M.2 PCIe 3.0 x4, M Key 2242/2280/22110, Mini-PCIe w/ mSATA support
4. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
5. Dual 10G SFP+ and dual 1GbE LAN
6. 2x USB 3.0 ports (rear), 5x USB 2.0 ports (4 via headers, 1 Type A)
7. 5x 4cm middle fans
8. 400W High-efficiency redundant short depth Power Supplies

[White Paper](#)

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

## Specifications

### Product SKUs

- SSG-5018D4-AR12L
  - SuperServer 5018D4-AR12L (Silver)

### Motherboard

[Super X10SDV-4C-7TP4F](#)

### Processor/Cache

- CPU
  - Intel® Xeon® processor D-1518, 2.2GHz; CPU TDP support 35W
  - FCBGA 1667

- Cores / Cache
  - 4 Cores, 8 Threads / 6MB

### Chassis

- Form Factor
  - 1U Rackmount
- Model
  - [CSE-801LTS-R406CP](#)

### Dimensions and Weight

- Height
  - 1.7" (43mm)
- Width
  - 17.2" (437mm)
- Depth
  - 32" (813mm)
- Gross Weight
  - 32 lbs (14.5kg)

### Front Panel

- Buttons
  - Power On/Off button

System Memory	
Memory Capacity	<ul style="list-style-type: none"> <li>4x DDR4 DIMM sockets</li> <li>Supports up to 128GB DDR4 ECC RDIMM</li> <li>Supports up to 64GB DDR4 ECC/non-ECC UDIMM</li> </ul>
Memory Type	<ul style="list-style-type: none"> <li>2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM</li> </ul>
DIMM Sizes	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB</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	
Chipset	<ul style="list-style-type: none"> <li>System on Chip</li> </ul>
SATA/SAS	<ul style="list-style-type: none"> <li>SoC controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10 RSTe</li> <li>LSI 2116 SW controller for 16 SATA3 (6Gbps) ports; SAS2 and SATA3</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual 10G SFP+ from D-1500 SoC</li> <li>Dual 1GbE with Intel I210</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>
Video	<ul style="list-style-type: none"> <li>Aspeed AST2400</li> </ul>

Input / Output	
LAN	<ul style="list-style-type: none"> <li>2x 10G SFP+ LAN ports</li> <li>2x 1GbE LAN ports</li> <li>1x Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>2x USB 3.0 ports (rear)</li> <li>5x USB 2.0 ports (4 via headers, 1 Type A)</li> </ul>
Video	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1x COM port (header)</li> </ul>
DOM	<ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) power connectors</li> </ul>
Others	<ul style="list-style-type: none"> <li>TPM 2.0 header</li> </ul>

LEDs	<ul style="list-style-type: none"> <li>Network activity LEDs</li> </ul>
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Expansion Slots	
PCI-E	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 x8 Full-height slot</li> <li>M.2 PCIe 3.0 x4, M Key 2242/2280/22110</li> <li>Mini-PCIe with mSATA support</li> </ul>

Drive Bays	
Internal	<ul style="list-style-type: none"> <li>12x 3.5" SAS2/SATA3 Hot-swap HDD bays</li> </ul>

Backplane	
SAS/SATA HDD Backplane	

System Cooling	
Fans	<ul style="list-style-type: none"> <li>5x 4cm middle fans</li> </ul>

Power Supply	
400W Redundant Power Supplies w/Power Distributor, PMBus 1.2, I <sup>2</sup> C, and PFC	
AC Input	<ul style="list-style-type: none"> <li>100-240V, 50-60Hz, 6-3A</li> </ul>
DC Output	<ul style="list-style-type: none"> <li>+5V standby: 3A</li> <li>+12V: 33A</li> </ul>
DC Output With Power Distributor	<ul style="list-style-type: none"> <li>+5V: 25A</li> <li>+3.3V: 25A</li> <li>-12V: 0.6A</li> </ul>

Certification	 Gold Certified
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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

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10SDV-4C-7TP4F	1	Super X10SDV-4C-7TP4F Motherboard
	CSE-801LTS-R406CP	1	1U Chassis
<b>Backplane</b>	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
<b>Backplane</b>	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
<b>Cable 1</b>	CBL-SAST-0616	1	internal mini SAS HD to 4 SATA 50CM, S, w/50cm SB,HF,RoHS/REACH,PBF
<b>Cable 2</b>	CBL-SAST-0556	2	internal 6G mini SAS HD to 4 SATA, 75/75/90/90cm w/75cm SB, S. 30AWG,HF,RoHS/REACH,PBF
<b>Parts</b>	MCP-120-00078-0N	1	Optional shorter 1U riser card bracket for X9DRL-7F/EF
<b>Label</b>	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
<b>Manual</b>	MNL-1873-QRG	1	QRG For 5018DX-AR12L
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
<b>Power Supply</b>	PWS-406P-1R	2	1U 400W Redundant Short Depth Power Supply

### Optional Parts List

	Part Number	Qty	Description
<b>HDD Bracket</b>	MCP-220-00137-0N	-	Dual 2.5 fixed HDD tray
<b>SATA Cable</b>	CBL-0061L	-	35cm SATA straight to straight cable ( for internal 2.5" drive connect to SoC SATA)
<b>MiniSAS HD cable</b>	CBL-SAST-0703	1	MiniSAS HD to 4 SATA cable (for internal 2.5" drive connect to LSI 2116)
<b>SATA Power cable</b>	CBL-0082L	1	Y split, big 4 pin to two RA SATA power extension 15cm (for 3rd and 4th internal 2.5" drive)
<b>Power extension</b>	CBL-0212L	1	Big 4 pin power extension cable 20cm (for 3rd and 4th internal 2.5" drive)
<b>Cable Arm</b>	MCP-290-00086-0N	1	Cable Management Arm for 1U ball bearing chassis SC801S/801L
<b>SuperDOM</b>	-	-	Supermicro SATA DOM Solutions <a href="#">[Details]</a>