

SuperServer 5018D2-AR12L (Complete System Only)



Integrated Board

[X10SDV-2C-7TP4F](#)

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
- Data Warehousing, Archiving
- Long Tail, Medical Records, Compliance Docs
- Low Power Efficiency Appliance

1. Intel® Pentium® processor D1508, Single socket FCBGA 1667; 2-Core, 4 Threads, 25W
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 1866MHz 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-5018D2-AR12L
 - SuperServer 5018D2-AR12L (Silver)

Motherboard

[Super X10SDV-2C-7TP4F](#)

Processor/Cache

- CPU
 - Intel® Pentium® processor D1508, 2.2GHz-2.6GHz; CPU TDP support 25W
 - FCBGA 1667

- Cores / Cache
 - 2 Cores, 4 Threads / 3MB

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
- LEDs
 - Network activity LEDs

System Memory

Memory Capacity	<ul style="list-style-type: none">4x DDR4 DIMM socketsSupports up to 128GB DDR4 ECC RDIMMSupports up to 64GB DDR4 ECC/non-ECC UDIMM
Memory Type	<ul style="list-style-type: none">1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM
DIMM Sizes	<ul style="list-style-type: none">32GB, 16GB, 8GB, 4GB
Memory Voltage	<ul style="list-style-type: none">1.2 V
Error Detection	<ul style="list-style-type: none">Corrects single-bit errorsDetects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none">System on Chip
SATA/SAS	<ul style="list-style-type: none">SoC controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10 RSTeLSI 2116 SW controller for 16 SATA3 (6Gbps) ports; SAS2 and SATA3
Network Controllers	<ul style="list-style-type: none">Dual 10G SFP+ from D-1500 SoCDual 1GbE with Intel I210
IPMI	<ul style="list-style-type: none">Support for Intelligent Platform Management Interface v.2.0IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	<ul style="list-style-type: none">Aspeed AST2400

Input / Output

LAN	<ul style="list-style-type: none">2x 10G SFP+ LAN ports2x 1GbE LAN ports1x Dedicated IPMI LAN port
USB	<ul style="list-style-type: none">2x USB 3.0 ports (rear)5x USB 2.0 ports (4 via headers, 1 Type A)
Video	<ul style="list-style-type: none">1x VGA port
Serial Port / Header	<ul style="list-style-type: none">1x COM port (header)
DOM	<ul style="list-style-type: none">2x SuperDOM (Disk on Module) power connectors
Others	<ul style="list-style-type: none">TPM 2.0 header

Expansion Slots

PCI-E	<ul style="list-style-type: none">1x PCI-E 3.0 x8 Full-height slotM.2 PCIe 3.0 x4, M Key 2242/2280/22110Mini-PCIe with mSATA support
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Drive Bays

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

SAS/SATA HDD Backplane

System Cooling

Fans	<ul style="list-style-type: none">5x 4cm middle fans
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Power Supply

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

Certification  Gold Certified

System BIOS

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

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

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