

SuperServer 5019A-12TN4



Integrated Board



A2SDi-LN4F

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

Key Features

- ❑ **Virtual Router**
- ❑ **FireWall Applications**
- ❑ **Virtualization**
- ❑ **Low Power, Low Cost Applications**

1. Intel® Atom® processor C3850, Single socket FCBGA 1310; TDP 25W
2. 1x 3.5" or 4x 2.5" internal drive bays
3. 1 PCI-E 3.0 x4, 1 mini PCIe with mSATA support (half card only)
4. Up to 64GB Unbuffered ECC/non-ECC SO-DIMM, up to DDR4-2400MHz, in 4 DIMM slots
5. 4x 1GbE LAN, 1 dedicated IPMI LAN
6. 2 USB 3.0, 1 VGA, 1 SATA support SuperDOM, TPM
7. 2x 13K RPM cooling fans
8. 200W Low-noise AC-DC power supply

Specifications

Product SKUs

- SYS-5019A-12TN4** ■ SuperServer 5019A-12TN4 (Black)

Motherboard

Super A2SDi-LN4F

Processor/Cache

- CPU** ■ Intel® Atom® processor C3850
 - FCBGA 1310 supported
 - CPU TDP support 25W

System Memory

- Memory Capacity** ■ 4 DDR4 DIMM sockets
 - Supports up to 64GB DDR4 ECC/non-ECC SODIMM
- Memory Type** ■ 2400/2133/1866/1600MHz ECC DDR4 SDRAM
- DIMM Sizes** ■ 16GB, 8GB, 4GB
- Memory Voltage** ■ 1.2 V
- Error Detection** ■ Corrects single-bit errors

On-Board Devices

- SATA** ■ SoC controller for 4 SATA3 (6Gbps) ports
- Network Controllers** ■ Quad Gigabit Ethernet LAN via Intel® I350-AM4
- IPMI** ■ Support for Intelligent Platform Management Interface v.2.0
 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- Graphics** ■ BMC integrated ASPEED AST2400

Input / Output

- SATA** ■ 4 SATA3 (6Gbps) ports
- LAN** ■ 4 RJ45 Gigabit Ethernet LAN ports
 - 1 RJ45 Dedicated IPMI LAN port
- USB** ■ 2 USB 3.0 ports (rear)
- DOM** ■ 1 SATA DOM (Disk on Module) power connector
- VGA** ■ 1 VGA Port
- Others** ■ TPM header

Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-504-203B**

Dimensions and Weight

- Height** ■ 1.7" (43mm)
- Width** ■ 17.2" (437mm)
- Depth** ■ 9.8" (249mm)
- Weight** ■ Net Weight: 8 lbs (3.62 kg)
 - Gross Weight: 10 lbs (4.54 kg)
- Available Colors** ■ Black

Front Panel

- Buttons** ■ Power On/Off button
 - System Reset button
- LEDs** ■ Power LED
 - Hard drive activity LED
 - Network activity LEDs
 - System Information LED
 - Information LED (temp., status)

Expansion Slots

- PCI-E** ■ 1 PCI-E 3.0 x4 slot
 - 1 M.2 PCI-E 3.0 x4 with SATA support, M Key 2242/2280

Drive Bays

- HDD** ■ 1x 3.5" or 4x 2.5" internal hard drive bays

System Cooling

- Fans** ■ 2x 13K RPM PWM cooling fans,
 - Optional 1x 40x28mm 4-PIN PWM Fan

Power Supply

200W Low Noise AC-DC power supply with PFC

- AC Voltage** ■ 100 - 240V, 50-60Hz, 2.6 Amp Max
- +5V** ■ 8.0 Amp (max.)
- +5V standby** ■ 2.0 Amp (max.)
- +12V** ■ 16 Amp (max.)
- 12V** ■ 0.5 Amp (max.)
- +3.3V** ■ 8.0 Amp (max.)

Certification



Gold Certified

System BIOS

- BIOS Type** ■ AMI UEFI

Operating Environment / Compliance

RoHS

- RoHS Compliant
-

**Environmental
Spec.**

- Operating Temperature:
0°C to 40°C (32°F to 104°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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-A2SDi-LN4F	1	Super A2SDi-LN4F Motherboard
	CSE-504-203B	1	1U Chassis
Cable 1	CBL-0061L	1	SATA,INT,FLAT,31.5CM,26AWG
FAN 1	FAN-0065L4	2	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
Parts	MCP-120-00063-0N	1	Riser card bracket for slot-7 in SC504
Parts	MCP-260-00100-0B	1	1U I/O Shield
Air Shroud	MCP-310-50501-0B	1	mylar air shroud for SC504/505 with X10SDV, HF, RoHS/REACH
Fan Holder	MCP-320-81302-0B	2	Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only)
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8

Optional Parts List

	Part Number	Qty	Description
HDD Bracket	MCP-220-00044-0N	-	Dual 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]