

SuperServer 5019A-FTN4



Integrated Board



A2SDi-8C-HLN4F

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Key Features

- ☐ **Network Security Appliance**
- ☐ **Edge Computing Server**
- ☐ **Virtualization Server**

1. Intel® Atom® processor C3758, Single socket FCBGA 1310; 8-Core, TDP 25W
2. 1x 3.5" or 4x 2.5" internal drive bays
3. 1 PCI-E 3.0 x4, 1 M.2 (M key for SSD, 2242/2280, PCI-E 3.0 x2 or SATA3)
4. Up to 256GB ECC RDIMM DDR4 2400MHz or 64GB ECC/non-ECC UDIMM in 4 DIMM slots
5. 4 1GbE LAN, 1 dedicated IPMI LAN
6. 2 USB 2.0, 1 VGA, 1 SuperDOM, TPM
7. 2x 40x28mm 4-pin PWM fans, optional 1x 40x28mm 4-pin fan
8. 200W Low-noise AC-DC power supply

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

Specifications

Product SKUs

- SYS-5019A-FTN4** ■ SuperServer 5019A-FTN4 (Black)

Motherboard

Super A2SDi-8C-HLN4F

Processor/Cache

- CPU** ■ Intel® Atom® processor C3758
■ FCBGA 1310 supported
■ CPU TDP support 25W

System Memory

- Memory Capacity** ■ 4x DDR4 DIMM sockets
■ Supports up to 256GB DDR4 ECC RDIMM
■ Supports up to 64GB DDR4 ECC/non-ECC UDIMM
- Memory Type** ■ 2400/2133/1866/1600MHz ECC DDR4 SDRAM
- DIMM Sizes** ■ 64GB, 32GB, 16GB, 8GB, 4GB
- Memory Voltage** ■ 1.2 V
- Error Detection** ■ Corrects single-bit errors
■ Detects double-bit errors (using ECC memory)

On-Board Devices

- SATA** ■ SoC controller for 4 SATA3 (6Gbps) ports
- Network Controllers** ■ Quad Gigabit Ethernet LAN via Intel® C3000 SoC
■ Virtual Machine Device Queues reduce I/O overhead
■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
■ 1 Realtek RTL8201N PHY (dedicated IPMI)
- 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 2.0 ports (rear)
- Serial Port** ■ 1 COM port (header)
- DOM** ■ 1 SATA DOM (Disk on Module) power connector
- VGA** ■ 1 VGA Port
- Others** ■ TPM header

Chassis

- Form Factor** ■ 1U Rackmount
- Model** ■ **CSE-505-203B**

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: 12 lbs (5.44 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 x2, M Key 2242/2280

Drive Bays

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

System Cooling

- Fans** ■ 2x 40x28mm 4-PIN PWM Fan, 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 BIOS

BIOS Features	■ Plug and Play (PnP) ■ DMI 2.3 ■ ACPI 5.0 ■ USB Keyboard support ■ SMBIOS 2.7.1 ■ UEFI
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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)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-A2SDi-8C-HLN4F	1	Super A2SDi-8C-HLN4F Motherboard
	CSE-505-203B	1	1U Chassis
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-0473L	2	SATA,INT,ROUND,ST-ST,21CM,30AWG
FAN 1	FAN-0065L4	2	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
Drive Tray(s)	MCP-220-00051-0N	2	Single 2.5
Rear Window	MCP-240-00091-0N	2	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF
Parts	MCP-260-00085-0B	1	1U I/O Shield for A1SRM-LN7F on SC510 with EMI Gasket,RoHS/REACH
Fan Holder	MCP-320-81302-0B	3	Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only)
Parts	MCP-340-00001-01	1	Dummy fan 40x28mm
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8
Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

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
Rack Mount Kit	MCP-290-50404-0N	-	Rack Mount Kit for CSE-504-203B
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]