

# SuperServer 5019A-FTN4



## Integrated Board



## A2SDi-8C-HLN4F

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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

**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

# 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

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|                      |                                                                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BIOS Features</b> | <ul style="list-style-type: none"><li>■ Plug and Play (PnP)</li><li>■ DMI 2.3</li><li>■ ACPI 5.0</li><li>■ USB Keyboard support</li><li>■ SMBIOS 2.7.1</li><li>■ UEFI</li></ul> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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#### Operating Environment / Compliance

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| <b>RoHS</b> | <ul style="list-style-type: none"><li>■ RoHS Compliant</li></ul> |
|-------------|------------------------------------------------------------------|

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Spec.</b> | <ul style="list-style-type: none"><li>■ Operating Temperature:<br/>0°C to 40°C (32°F to 104°F)</li><li>■ Non-operating Temperature:<br/>-40°C to 70°C (-40°F to 158°F)</li><li>■ Operating Relative Humidity:<br/>8% to 90% (non-condensing)</li><li>■ Non-operating Relative Humidity:<br/>5% to 95% (non-condensing)</li></ul> |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Parts List

### Parts List - (Items Included)

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

### Optional Parts List

|                       | Part Number      | Qty | Description                                                |
|-----------------------|------------------|-----|------------------------------------------------------------|
| <b>HDD Bracket</b>    | MCP-220-00044-0N | -   | Dual 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U |
| <b>Rack Mount Kit</b> | MCP-290-50404-0N | -   | Rack Mount Kit for CSE-504-203B                            |
| <b>SuperDOM</b>       | -                | -   | Supermicro SATA DOM Solutions <a href="#">[Details]</a>    |