

# SuperServer E300-9A-4C



Integrated Board



**A2SDi-4C-HLN4F**

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## Key Features

- Embedded Security Appliance
- Embedded IoT Gateway
- Networking Edge Device

1. Intel® Atom® processor C3558, Single socket FCBGA 1310
2. System on Chip
3. Up to 2 SSD when AOC area is not occupied. Need optional cable CBL-SAST-1034
4. Up to 256GB registered ECC, up to 64GB unbuf. ECC/non-ECC, DDR4-2400MHz, in 4 DIMM slots
5. 1 PCI-E 3.0 x4 AOC slot (LP)
6. 4 GbE LAN ports w/ Intel C3000 SoC
7. 2 USB 2.0, 1 M.2 MKey 2242/2280
8. 1 VGA via BMC
9. 2x40mm chassis fan, passive CPU heat sink
10. 84W DC power adapter

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

# Specifications

## Product SKUs

|                       |                                           |
|-----------------------|-------------------------------------------|
| <b>SYS-E300-9A-4C</b> | ■ SuperServer E300-9A-4C ( <b>Black</b> ) |
|-----------------------|-------------------------------------------|

## Motherboard

|                             |
|-----------------------------|
| <b>Super A2SDi-4C-HLN4F</b> |
|-----------------------------|

## Processor/Cache

|            |                                |
|------------|--------------------------------|
| <b>CPU</b> | ■ Intel® Atom® processor C3558 |
|            | ■ 4 Cores, 2.2GHz              |
|            | ■ CPU TDP support 16W          |
|            | ■ FCBGA 1310                   |

## System Memory

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

## On-Board Devices

|                            |                                                  |
|----------------------------|--------------------------------------------------|
| <b>Chipset</b>             | ■ System on Chip                                 |
| <b>SATA</b>                | ■ SoC controller for 4 SATA3 (6Gbps) ports       |
| <b>Network Controllers</b> | ■ Quad Gigabit Ethernet LAN via Intel® C3000 SoC |
| <b>Graphics</b>            | ■ Aspeed AST2400                                 |

## Input / Output

|                |                                               |
|----------------|-----------------------------------------------|
| <b>SATA</b>    | ■ 2 SATA3 (6Gbps) ports                       |
| <b>LAN</b>     | ■ 4 RJ45 Gigabit Ethernet LAN ports           |
|                | ■ 1 RJ45 Dedicated IPMI LAN port              |
| <b>USB</b>     | ■ 2 USB 2.0 ports (rear)                      |
| <b>Display</b> | ■ 1 VGA port                                  |
| <b>DOM</b>     | ■ 1 SuperDOM (Disk on Module) power connector |
| <b>TPM</b>     | ■ TPM 2.0 header                              |

## Chassis

|                    |           |
|--------------------|-----------|
| <b>Form Factor</b> | ■ Mini-1U |
|--------------------|-----------|

|              |                   |
|--------------|-------------------|
| <b>Model</b> | ■ <b>CSE-E300</b> |
|--------------|-------------------|

## Dimensions

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Width</b>            | ■ 10" (254mm) / 15" (381mm) - pkg.    |
| <b>Height</b>           | ■ 1.7" (43mm) / 10.87" (276mm) - pkg. |
| <b>Depth</b>            | ■ 8.9" (226mm) / 5.59" (142mm) - pkg. |
| <b>Weight</b>           | ■ Gross Weight: 7.5 lbs (3.4 kg)      |
|                         | ■ Net Weight: 3.45 lbs (1.56 kg)      |
| <b>Available Colors</b> | ■ Black                               |

## Front Panel

|                |                                       |
|----------------|---------------------------------------|
| <b>Buttons</b> | ■ Power On/Off button                 |
| <b>LEDs</b>    | ■ Power LED (Hard drive activity LED) |

## Expansion Slots

|                    |                                |
|--------------------|--------------------------------|
| <b>PCI-Express</b> | ■ 1 PCI-E 3.0 x4 AOC slot (LP) |
|--------------------|--------------------------------|

## Drive Bays / Storage

|                 |                                                                                |
|-----------------|--------------------------------------------------------------------------------|
| <b>Internal</b> | ■ Up to 2 SSD when AOC area is not occupied. Need optional cable CBL-SAST-1034 |
| <b>M.2</b>      | ■ Interface: PCI-E 3.0 x2                                                      |
|                 | ■ Form Factor: M Key 2242/2280                                                 |

## System Cooling

|             |                       |
|-------------|-----------------------|
| <b>Fans</b> | ■ 2x 40mm chassis fan |
|-------------|-----------------------|

## Power Supply

|                      |
|----------------------|
| 84W DC power adapter |
|----------------------|

## System BIOS

|                      |                |
|----------------------|----------------|
| <b>BIOS Type</b>     | ■ AMI UEFI     |
| <b>BIOS Features</b> | ■ UEFI 2.4     |
|                      | ■ SMBIOS 2.7.1 |

## Management

|                             |                                                     |
|-----------------------------|-----------------------------------------------------|
| <b>Software</b>             | ■ OOB                                               |
|                             | ■ IPMI 2.0                                          |
|                             | ■ KVM with dedicated LAN                            |
|                             | ■ NMI                                               |
|                             | ■ SuperDoctor® 5                                    |
|                             | ■ Watch Dog                                         |
| <b>Power Configurations</b> | ■ ACPI / APM Power Management                       |
|                             | ■ CPU thermal trip support for processor protection |
|                             | ■ Power-on mode for AC power recovery               |

## Operating Environment / Compliance

|             |                  |
|-------------|------------------|
| <b>RoHS</b> | ■ RoHS Compliant |
|-------------|------------------|

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**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-4C-HLN4F | 1   | Super A2SDi-4C-HLN4F Motherboard            |
|                       | CSE-E300           | 1   | Embedded Server BOX for Mini-ITX 1U w/o PWS |
| Riser Card            | RSC-RR1U-E8        | 1   | RSC-RR1U-E8 (Rev 4.00)                      |
| Cooling Fan           | FAN-0065L4         | -   | 40x28mm 13K RPM 4-PIN PWM FAN               |
| Power Adapter         | MCP-250-10122-0N   | 1   | 84W DC Pow er Adapter                       |

Optional Parts List

|               | Part Number      | Qty | Description                                        |
|---------------|------------------|-----|----------------------------------------------------|
| Chassis Parts | MCP-290-30002-0B | -   | CSE-E300 Rackmount kit                             |
| Cable         | CBL-CUSB-0975    | -   | RJ45 SERIAL Cable for Console                      |
| Cable         | CBL-SAST-1034    | -   | SATA Splitter Cable w ith Pow er for dual SATA HDD |