

SuperServer E300-9A-4CN8



Integrated Board



A2SDV-4C-LN8F

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Key Features

- Virtual-CPE White Box Solution
- Network Security Appliance
- Embedded IoT Gateway
- Networking Edge Device

1. Intel® Atom® processor C3558, Single socket FCBGA 1310
2. System on Chip
3. 1 fixed 2.5" drive bay when AOC area is not occupied
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 i350-AM4
4 GbE LAN ports w/ Marvell 88E1543
7. 2 USB 3.0, 1 M.2 B Key 3042/2280
8. 1 VGA via BMC
9. 1x40mm 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

- | | |
|-------------------------|---|
| SYS-E300-9A-4CN8 | ■ SuperServer E300-9A-4CN8 (Black) |
|-------------------------|---|

Motherboard

Super A2SDV-4C-LN8F

Processor/Cache

- | | |
|------------|--|
| CPU | ■ Intel® Atom® processor C3558 <ul style="list-style-type: none">■ 4 Cores, 2.2GHz■ CPU TDP support 16W■ FCBGA 1310 |
|------------|--|

System Memory

- | | |
|------------------------|---|
| Memory Capacity | ■ 4x DDR4 DIMM sockets <ul style="list-style-type: none">■ Supports up to 256GB DDR4 ECC RDIMM■ Supports up to 64GB DDR4 ECC/non-ECC UDIMM |
| Memory Type | ■ 2400/2133/1866MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM |
| DIMM Sizes | ■ 64GB, 32GB, 16GB, 8GB, 4GB |
| Memory Voltage | ■ 1.2 V |
| Error Detection | ■ Corrects single-bit errors <ul style="list-style-type: none">■ Detects double-bit errors (using ECC memory) |

On-Board Devices

- | | |
|----------------------------|--|
| Chipset | ■ System on Chip |
| SATA | ■ SoC controller for 4 SATA3 (6Gbps) ports |
| Network Controllers | ■ Quad Gigabit Ethernet LAN via Intel® i350-AM4 <ul style="list-style-type: none">■ Quad Gigabit Ethernet LAN via Marvell® Alaska® 88E1543 |
| Graphics | ■ Aspeed AST2400 |

Input / Output

- | | |
|----------------|--|
| SATA | ■ 2 SATA3 (6Gbps) ports |
| LAN | ■ 8 RJ45 Gigabit Ethernet LAN ports <ul style="list-style-type: none">■ 1 RJ45 Dedicated IPMI LAN port |
| USB | ■ 2 USB 3.0 ports (rear) |
| Display | ■ 1 VGA port |
| DOM | ■ 1 SuperDOM (Disk on Module) power connector |
| TPM | ■ TPM 2.0 header |

Chassis

- | | |
|--------------------|-----------------------|
| Form Factor | ■ Mini-1U |
| Model | ■ CSE-E300-LED |

Dimensions

- | | |
|-------------------------|---|
| Width | ■ 10" (254mm) / 15" (381mm) - pkg. |
| Height | ■ 1.7" (43mm) / 10.87" (276mm) - pkg. |
| Depth | ■ 8.9" (226mm) / 5.59" (142mm) - pkg. |
| Weight | ■ Gross Weight: 7.5 lbs (3.4 kg) <ul style="list-style-type: none">■ Net Weight: 3.45 lbs (1.56 kg) |
| Available Colors | ■ Black |

Front Panel

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

Expansion Slots

- | | |
|--------------------|--------------------------------|
| PCI-Express | ■ 1 PCI-E 3.0 x4 AOC slot (LP) |
|--------------------|--------------------------------|

Drive Bays / Storage

- | | |
|-----------------|--|
| Internal | ■ 1 fixed 2.5" drive bay when AOC area is not occupied |
| M.2 | ■ 1 M.2 Key <ul style="list-style-type: none">■ Interface: PCI-E 3.0 x2■ Form Factor: B Key 3042/2280 |

System Cooling

- | | |
|-------------|-----------------------|
| Fans | ■ 1x 40mm chassis fan |
|-------------|-----------------------|

Power Supply

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

System BIOS

- | | |
|----------------------|---|
| BIOS Type | ■ AMI UEFI |
| BIOS Features | ■ UEFI 2.4 <ul style="list-style-type: none">■ SMBIOS 2.7.1 |

Management

- | | |
|-----------------------------|---|
| Software | ■ OOB <ul style="list-style-type: none">■ IPMI 2.0■ KVM with dedicated LAN■ NMI■ <u>SuperDoctor® 5</u>■ Watch Dog |
| Power Configurations | ■ ACPI / APM Power Management <ul style="list-style-type: none">■ CPU thermal trip support for processor protection■ Power-on mode for AC power recovery |

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-A2SDV-4C-LN8F	1	Super A2SDV-4C-LN8F Motherboard
	CSE-E300-LED	1	Embedded Server BOX for Mini-ITX 1U w/o PWS
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