

# SuperServer E300-9A-8CN8



## Integrated Board



## A2SDV-8C-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 C3758, 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,  
1 M.2 M Key 2242/2280
8. 1 VGA via BMC
9. 1x 40mm 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-8CN8** ■ SuperServer E300-9A-8CN8 (**Black**)

## Motherboard

**Super A2SDV-8C-LN8F**

## Processor/Cache

- CPU** ■ **Intel® Atom® processor C3758**
  - 8 Cores, 2.2GHz
  - CPU TDP support 25W
  - FCBGA 1310

## 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** ■ 2400/2133/1866MHz 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
  - 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
  - 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
  - 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)
  - 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** ■ 2 M.2 Key
  - Interface: PCI-E 3.0 x2
  - Form Factor: B Key 3042/2280
  - Form Factor: M Key 2242/2280

## System Cooling

- Fans** ■ 1x 40mm chassis fan

## Power Supply

- 84W DC power adapter

## System BIOS

- BIOS Type** ■ AMI UEFI

- BIOS Features** ■ UEFI 2.4
  - SMBIOS 2.7.1

## Management

- Software** ■ OOB
  - IPMI 2.0
  - KVM with dedicated LAN
  - NMI
  - SuperDoctor® 5**
  - Watch Dog

- Power Configurations** ■ ACPI / APM Power Management
  - CPU thermal trip support for processor protection
  - Power-on mode for AC power recovery

## Operating Environment / Compliance

**RoHS**

- 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)
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# Parts List

## Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-A2SDV-8C-LN8F	1	Super A2SDV-8C-LN8F Motherboard
	CSE-E300-LED	1	Embedded Server BOX for Mini-ITX 1U w/o PWS
<b>Cooling Fan</b>	FAN-0065L4	-	40x28mm 13K RPM 4-PIN PWM FAN
<b>Power Adapter</b>	MCP-250-10122-0N	1	84W DC Power Adapter

## Optional Parts List

	Part Number	Qty	Description
<b>Chassis Parts</b>	MCP-290-30002-0B	-	CSE-E300 Rackmount kit
<b>Cable</b>	CBL-CUSB-0975	-	RJ45 SERIAL Cable for Console