

SuperServer E300-9A-8CN10P



Integrated Board



A2SDV-8C-LN10PF

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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. 8 GbE and 2 1G SFP LAN ports
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. 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-8CN10P** ■ SuperServer E300-9A-8CN10P (Black)

Motherboard

Super A2SDV-8C-LN10PF

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** ■ 8x 1GbE LAN ports via Intel C3000 SoC
 - 2x 1G SFP via Intel I210-IS
- Graphics** ■ Aspeed AST2400 BMC

Input / Output

- SATA** ■ 2 SATA3 (6Gbps) ports
- LAN** ■ 8 RJ45 Gigabit Ethernet LAN ports
 - 2 1G SFP LAN ports
 - 1 RJ45 Dedicated IPMI LAN port
- USB** ■ 2 USB 3.0 ports (rear)
- Display** ■ 1 VGA port
- 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) when SSD is not populated

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

**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-8C-LN10PF	1	Super A2SDV-8C-LN10PF Motherboard
	CSE-E300-LED+	1	Embedded Server BOX for Mini-ITX 1U w/o PWS
Cooling Fan	FAN-0065L4	1	40x28mm 13K RPM 4-PIN PWM FAN
Power Adapter	MCP-250-10122-0N	1	84W DC Pow er Adapter
I/O Shield	MCP-260-30002-1B	1	CSE-E300-LED+ I/O shield for A2SDV-4C/8C-LN10PF

Optional Parts List

	Part Number	Qty	Description
Rackmount Kit	MCP-290-30002-0B	-	CSE-E300 Rackmount kit
Riser Card Bracket	MCP-240-30002-0N	-	CSE-E300 Riser Card Bracket