

SuperServer E300-9A-4C



Integrated Board



A2SDi-4C-HLN4F

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Key Features

- Embedded Security Appliance
 - Embedded IoT Gateway
 - Networking Edge Device
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1. Intel® Atom® processor C3558, Single socket FCBGA 1310
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2. System on Chip
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3. Up to 2 SSD when AOC area is not occupied. Need optional cable CBL-SAST-1034
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4. Up to 256GB registered ECC, up to 64GB unbuf. ECC/non-ECC, DDR4-2400MHz, in 4 DIMM slots
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5. 1 PCI-E 3.0 x4 AOC slot (LP)
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6. 4 GbE LAN ports w/ Intel C3000 SoC
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7. 2 USB 2.0, 1 M.2 M Key 2242/2280
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8. 1 VGA via BMC
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9. 2x 40mm chassis fan, passive CPU heat sink
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10. 84W DC power adapter
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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-4C	■ SuperServer E300-9A-4C (Black)
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Motherboard

Super A2SDi-4C-HLN4F

Processor/Cache

CPU	■ Intel® Atom® processor C3558
	■ 4 Cores, 2.2GHz
	■ CPU TDP support 16W
	■ 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® C3000 SoC
Graphics	■ Aspeed AST2400

Input / Output

SATA	■ 2 SATA3 (6Gbps) ports
LAN	■ 4 RJ45 Gigabit Ethernet LAN ports
	■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 2 USB 2.0 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

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)
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Drive Bays / Storage

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

System Cooling

Fans	■ 2x 40mm chassis fan
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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
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 Power 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 with Power for dual SATA HDD