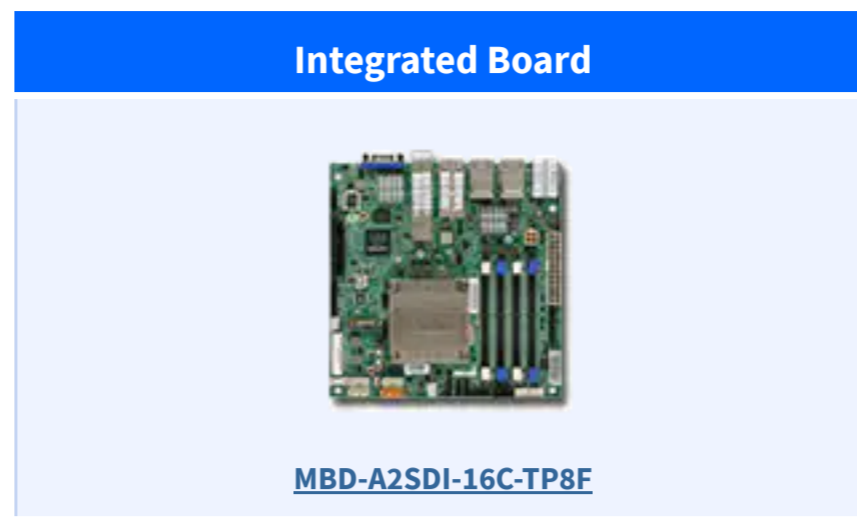


# SuperServer E300-9A-16CN8TP



Views: | [Angled View](#) | [Top View](#)  
| [Front View](#) | [Rear View](#) |



### Integrated Board

MBD-A2SDI-16C-TP8F

### Key Features

- Embedded Networking Applications
  - Network Security Appliance
  - FireWall Applications
  - Virtualization Server
1. Intel® Atom® processor C3958, Single socket FCBGA 1310
  2. System on Chip
  3. 1 fixed 2.5" drive bay (Top drive bay area is shared with AOC. Please remove riser card when installing 2.5" drive on the top.)
  4. Up to 64GB unbuffered ECC/non-ECC, DDR4-2400MHz, in 4 DIMM slots
  5. 1 PCI-E 3.0 x4 AOC slot (LP), 1 M.2 M Key PCI-E/SATA3 2242/80, 1 Mini-PCI-E w/ mSATA Half Size
  6. 2x 10GbE SFP+, 2x 10GbE LAN, 4x 1GbE LAN, 1 dedicated IPMI LAN
  7. 2 USB 3.0, 1 VGA
  8. 2x 40x28mm 4-PIN PWM Fan
  9. Lockable 12V DC 84W power adapter

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [Manuals](#) | [OS Certification Matrix](#) | [Drive Options](#)

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-16CN8TP** SuperServer E300-9A-16CN8TP (Black)

### Motherboard

#### Super MBD-A2SDI-16C-TP8F

### Processor/Cache

**CPU** Intel® Atom® processor C3958  
16 Cores, 2.0GHz  
CPU TDP support 31W  
FCBGA 1310

### System Memory

**Memory Capacity** 4x DDR4 DIMM sockets  
Supports up to 64GB DDR4 ECC/non-ECC SO-DIMM

**Memory Type** 2400/2133/1866MHz ECC/Non-ECC SO-DIMM

**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 LAN with Intel® C3000 SoC: 2 10GBaseT, 2 10Gb SFP+  
Quad LAN with Intel® Ethernet Controller I350-AM4: 1GbE

**Graphics** Aspeed AST2400

### Input / Output

**SATA** 4 SATA3 (6Gbps) ports

**LAN** 2x SFP+ 10G Ethernet LAN ports  
2x RJ45 10GBase-T Ethernet LAN ports  
4x 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](#)

### 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: 6.1 lbs (2.8 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 Express 3.0 x4 AOC slot (LP)  
1 Mini-PCI-E w/ mSATA Half Size

### Drive Bays / Storage

**Internal** 2 fixed 2.5" drive bays, one with bracket, one on base mount  
(1 fixed 2.5" drive bay when AOC area is occupied)

**M.2** Interface: PCI-E/SATA3  
Form Factor: M Key 2242/2280

### System Cooling

**Fans** 2x 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
<b>Motherboard / Chassis</b>	MBD-MBD-A2SDI-16C-TP8F	1	Super MBD-A2SDI-16C-TP8F Motherboard
	CSE-E300	1	Embedded Server BOX for Mini-ITX 1U w/o PWS
<b>Power Adapter</b>	MCP-250-10137-0N	1	84W DC Power Adapter

### Optional Parts List

	Part Number	Qty	Description
<b>Chassis Parts</b>	MCP-290-30002-0B	-	CSE-E300 Rackmount kit (150W/180W adapter supported)
<b>Cable</b>	CBL-CUSB-0975	-	RJ45 SERIAL Cable for Console
<b>Cable</b>	CBL-SAST-1034	-	SATA Splitter Cable with Power for dual SATA HDD

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