SuperServer E50-9AP

Integrated Board

A2SAP-H

Views: | **Angled View** | **Front View** | **Rear View** |

Key Features

- **IoT Gateway**
- **Commercial Appliance**
- **IP51 for water/dust proof**

1. Intel® Atom® processor E3940 (9.5W, 4C)
   Single socket FCBGA 1296

2. System on Chip

3. 1 SATA 3.0 for 7mm 2.5" SATA SSD,
   1 M.2 B-Key 2242/3042 for SATA SSD

4. Up to 8GB 1866MHz DDR3L Non-ECC
   SO-DIMM in 1 socket

5. 1 Full size Mini-PCIe,
   1 Half size Mini-PCIe,
   1 M.2 B-Key 2242/3042,
   1 M.2 E-Key 2230

6. Dual LAN with Intel I210-IT

7. 2 USB 3.0, 2 USB 2.0, 2 COM
   (RS-232/422/485), 1 TPM 2.0 onboard

8. Fanless design

9. Lockable 12V DC 40W power adapter

▶**Drivers & Utilities** ▶**BIOS** ▶**IPMI** ▶**Tested Memory** ▶**Tested M.2 List** ▶**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.

Product SKUs

SYS-E50-9AP	SuperServer E50-9AP (**Black**)

Motherboard

Super A2SAP-H

Processor/Cache

CPU	**Intel® Atom® processor E3940** Single socket FCBGA 1296 9.5W, 4C

System Memory

Memory Capacity	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM socket
Memory Type	DDR3L up to 1866MHz
DIMM Sizes	8GB, 4GB
Memory Voltage	1.35 V

On-Board Devices

Chipset	System on Chip
Network Controllers	Dual LAN with Intel® Ethernet Controller I210-IT
Audio	ALC 888S HD Audio
Graphics	Intel® HD Graphics HDMI (max. resolution up to 3840 x 2160 @ 30Hz)

Input / Output

LAN	2 RJ45 Gigabit Ethernet LAN ports
USB	2 USB 3.0 ports (rear) 2 USB 2.0 ports
Video	2 HDMI ports
COM	2 COM (RS-232/422/485)
TPM	1 TPM 2.0 onboard

Chassis

Form Factor	Proprietary
Model	**CSE-E50**

Dimensions

Width	5.82" (148mm)
Height	1.72" (44mm)
Depth	4.64" (118mm)
Weight	Gross Weight: 3.52 lbs (1.6 kg) Net Weight: 2.2 lbs (1 kg)
Available Colors	Black

Front Panel

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

Expansion Slots

PCI-Express	1 Full size Mini-PCIe 1 Half size Mini-PCIe
M.2	1 M.2 B-Key 2242/3042 for storage 1 M.2 E-Key 2230 for communication module

Drive Bays / Storage

Internal	1 SATA 3.0 for 7mm 2.5" SATA SSD OR 1 M.2 B-Key 2242/3042 for SATA SSD

System Cooling

Fans	Fanless design

Power Supply

40W lockable 12V DC power adapter

System BIOS

BIOS Type	AMI UEFI

Management

Software	■ <u>SuperDoctor® 5</u> ■ <u>Watch Dog</u>
Power Configurations	■ +12V DC Power Input ■ ACPI Power Management ■ Control of power-on for recovery from AC power loss ■ Force Power On by Jumper

Operating Environment / Compliance

RoHS	■ RoHS Compliant

Environmental Spec.	■ Operating Temperature:
	  -20°C to 50°C (-4°F to 122°F) with 0.7 m/s air flow
	
	  with M.2 SATA SSD
	
	  0°C to 40°C (32°F to 104°F)
	
	  with HDD
	■ 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)
	
	The use of industrial grade wide-temperature peripherals is required to meet 50°C operating temperature.