SuperServer E50-9AP-N5

Integrated Board

A2SAP-H

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

▶ **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.

Key Features

- **- IoT Gateway**
- **- Entry Networking Appliance**

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 for SATA SSD

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

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

6. 5 LAN with Intel I210-IT

7. 2 USB 3.0, 2 USB 2.0, 1 COM, 2 HDMI,
   ALC 888S HD Audio, 1 TPM 2.0 onboard

8. Fanless design

9. Lockable 12V DC 40W power adapter

Product SKUs	
SYS-E50-9AP-N5	▪ SuperServer E50-9AP-N5 (**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	▪ 5 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	▪ 5 RJ45 Gigabit Ethernet LAN ports
USB	▪ 2 USB 3.0 ports (rear) ▪ 2 USB 2.0 ports (front)
Video	▪ 2 HDMI port
COM	▪ 1 COM
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)
Package	▪ 5.5" (H) x 9.5" (W) x 8" (D)
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 Half size Mini-PCIe
M.2	▪ 1 M.2 B-Key 2242 for storage (SATA SSD) ▪ 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 for SATA SSD

System Cooling

Fans	▪ Fanless design

Power Supply

40W lockable 12V DC power adapter

System BIOS

BIOS Type	▪ AMI UEFI

Management

Software	▪ SuperDoctor® 5 ▪ Watch Dog
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 ▪ 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.

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-A2SAP-H	1	Super A2SAP-H Motherboard
	CSE-E50	1	IP51 Fanless Chassis for 2.5" PICO
Add-on Card / Module	AOM-PICO-3L-P	1	Add-on I/O Module for Pico-ITX A2SAP and Embedded IoT system SYS-E50 series with 3 GbE LANs.,RoHS
Cable 1	CBL-PWCD-0260-IS	1	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,18AWG,RoHS/REACH
Parts	MCP-210-05002-0B	1	Front IO for CSE-E50 with 2xUSB2.0, 1xCOM, 3xLAN
Power Adapter	MCP-250-10135-0N	1	40W 12V 3.33A, AC to DC lockable power adapter (0-40°C)