

SuperServer E100-9AP-IA



Integrated Board



[./products/motherboard/ATOM/A2SAN-E.cfm](/products/motherboard/ATOM/A2SAN-E.cfm)

Super A2SAN-E ([./products/motherboard/ATOM/A2SAN-E.cfm](/products/motherboard/ATOM/A2SAN-E.cfm))

Views: | [Angled View \(/a_images/products/views/E100-9AP-IA_angle.jpg\)](/a_images/products/views/E100-9AP-IA_angle.jpg) | [Front View \(/a_images/products/views/E100-9AP-IA_front.jpg\)](/a_images/products/views/E100-9AP-IA_front.jpg) |

Key Features

- IoT Gateway for Smart Factory/Building
- Machine Automation
- Industrial Application

1. Intel® Atom® Processor E3940, Single Socket FCBGA 1296
2. System-on-Chip
3. 1 Full size Mini-PCIe
1 M.2 2280 B-Key for SATA or PCIe SSD
4. 1 non-ECC DDR3L SODIMM; up to 8GB
5. Dual GbE LAN ports via Intel I210-IT
6. 1 HDMI, 1 VGA, 2 USB 3.0, 4 USB 2.0
7. 2 RS232, 2 RS232/422/485, RS-485 supports auto flow control, 1 DIO via DB9
8. Fanless design
9. 12V DC 60W power adapter with Terminal Block, support 9-36V DC-in

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#)

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=85820&ProductName=SSE100-9AP-IA\)](/en/support/resources/m2ssd?SystemID=85820&ProductName=SSE100-9AP-IA)

[Manuals](#)

[OS Certification Matrix \(/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2DE100%2D9AP%2DIA\)](/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2DE100%2D9AP%2DIA)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-E100-9AP-IA
SuperServer E100-9AP-IA (**Black**)

Motherboard

Super A2SAN-E
(</products/motherboard/ATOM/A2SAN-E.cfm>).

Processor/Cache

CPU
Intel® Atom® Processor E3940
FCBGA 1296
System-on-Chip
CPU TDP support 9W

System Memory

Memory Capacity
1x 204-pin DDR3L SO-DIMM socket
Memory Type
1866/1600/1333MHz Unbuffered non-ECC SO-DIMM DDR3L, 204-pin gold-plated DIMMs
DIMM Sizes
8GB, 4GB, 2GB
Memory Voltage
1.35 V

On-Board Devices

SATA
SoC controller for 1 SATA3 (6Gbps)
Network Controllers
Dual GbE LAN with Intel i210-IT controller

Input / Output

LAN
2 RJ45 Gigabit Ethernet LAN ports
USB
2 USB 3.0 (front)
4 USB 2.0 (side)
COM Port
2 RS232, 2 RS232/422/485, RS-485 supports auto flow control
8-bit configurable GPIO via DB9
Video
1 VGA, 1 HDMI



Chassis

Form Factor
3.5" SBC
Model
CSE-E101-IA

Dimensions

Width
7.64" (194mm) / 9.5" (241mm) - pkg.
Height
3.15" (80mm) / 5.5" (140mm) - pkg.
Depth
4.96" (126mm) / 8" (203mm) - pkg.
Weight
Gross Weight: 3.97 lbs (1.8 kg)
Net Weight: 3.31 lbs (1.5 kg)
Available Colors
Black

Front Panel

Buttons
Power On/Off button
LEDs
Power LED and Hard drive activity LED

Expansion Slots

PCI-Express
1 Full size Mini-PCIe (USB 2.0/PCIe)
1 M.2 2280 B-Key for SATA or PCIe SSD (2242 can be supported with bracket)

Drive Bays

Internal
1 SATA SSD (SATA3)

System Cooling

Fans
Fan-less design

Power Supply

12V DC 60W power adapter with Terminal Block

System BIOS

BIOS Type
64Mb SPI Flash EEPROM with AMI UEFI BIOS
BIOS Features
Plug and Play (PnP)
DMI 2.3
ACPI 5.0
USB Keyboard support
SMBIOS 2.7.1
UEFI

Management

Software

[SuperDoctor® 5 \(/products/nfo/SMS_SD5.cfm\)](/products/nfo/SMS_SD5.cfm)

Watch Dog

Power Configurations

ACPI Power Management

ATX Power connector

Control of power-on for recovery from AC power loss

CPU thermal trip support for processor protection

Operating Environment / Compliance

RoHS

RoHS Compliant

Environmental Spec.

Operating Temperature:

-20°C to 60°C (-4°F to 140°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 60°C operating temperature.

Operational Vibration

IEC 60068-2-64, 5 Grms, randon, 5-500 Hz, 1hr/axis

Operational Shock

Parts List

[Global SKU \(/en/products/SMC_global_skus\)](/en/products/SMC_global_skus)