

SuperServer E100-9AP-IA



Integrated Board



Super A2SAN-E

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](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#)

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)
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Motherboard

Super A2SAN-E

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 ■ 1 DIO 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)
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Drive Bays

Internal	■ 1 SATA SSD (SATA3)
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System Cooling

Fans	■ Fan-less design
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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 (PhP) ■ DMI 2.3 ■ ACPI 5.0 ■ USB Keyboard support ■ SMBIOS 2.7.1 ■ UEFI

Management

Software	■ <u>SuperDoctor® 5</u> ■ 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
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Environmental Spec.	■ Operating Temperature: -20°C to 60°C (-4°F to 140°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)
Operational Vibration	■ IEC 60068-2-64, 5 Grms, randon, 5-500 Hz, 1hr/axis
Operational Shock	■ IEC 60068-2-27, 30G, half sine, 11ms

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-A2SAN-E	1	Super A2SAN-E Motherboard
	CSE-E101-IA	1	Fanless 3.5" SBC embedded chassis
Power Adapter	MCP-250-10125-0N	1	60W 12V 3.33A, AC to DC power adapter w / terminal block (0-40°C)

Optional Parts List

	Part Number	Qty	Description
mSATA 128GB	HDS-MTM-THNSNH128GMCT	-	Toshiba mSATA 128GB MLC
mSATA 256GB	HDS-MTM-THNSNH256GMCT	-	Toshiba mSATA 256GB MLC