SuperServer E100-9AP

Integrated Board

Super A2SAN-E

Views: | Angled View | Front View |

▶ **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.

Key Features

- **IoT Gateway for Smart Factory/Building/Home**
- **Kiosk, Interactive info system**
- **Environmental Monitor**

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. 4 COM, 2 USB 3.0, 4 USB 2.0

7. 1 VGA, 1 HDMI

8. Fanless design

9. Lockable 12V DC 40W power adapter

Product SKUs	
SYS-E100-9AP	■ SuperServer E100-9AP (**Black**)

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	
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 (rear)
COM Port	■ 4 COM ports (4 headers); 2 RS232, 2 RS232/422/485, RS-485 supports auto flow control
Video	■ 1 VGA, 1 HDMI
Others	■ 8-bit configurable GPIO via DB9

Chassis

Form Factor	3.5" SBC
Model	CSE-E101

Dimensions

Width	7.68" (195mm) / 11.81" (300mm) - pkg.
Height	1.73" (44mm) / 5.12" (130mm) - pkg.
Depth	5.94" (151mm) / 11" (279mm) - pkg.
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 (1 USB 2.0, 1 PCIe Gen2)

Drive Bays

Internal	1 M.2 2280 B-Key for SATA or PCIe SSD (2242 can be supported with bracket)

System Cooling

Fans	Fan-less design

Power Supply

Lockable 12V DC 40W power adapter

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 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)
	Operational Vibration, IEC 60068-2-64, 5 Grms, random, 5~500 Hz, 1hr/axis
	Operational Shock, IEC 60068-2-27, 30G, half sine, 11ms
	
	The use of industrial grade wide-temperature peripherals is required to meet 60°C operating temperature.

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-A2SAN-E	1	Super A2SAN-E Motherboard
	CSE-E101	1	Chassis for Embedded 3.5" SBC
Power Adapter	MCP-250-10135-0N	1	40W 12V 3.33A, AC to DC lockable power adapter (0-40°C)