

## SuperServer E100-9APP



### Integrated Board



[./products/motherboard/X11/X11SAN.cfm](https://products/motherboard/X11/X11SAN.cfm)

**Super X11SAN** ([./products/motherboard/X11/X11SAN.cfm](https://products/motherboard/X11/X11SAN.cfm))

**Views:** | [Angled View](#) ([/a\\_images/products/views/E100-9APP\\_angle.jpg](#)) | [Front View](#) ([/a\\_images/products/views/E100-9APP\\_front.jpg](#)) |

## Key Features

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

1. Intel® Pentium™ processor N4200, Single Socket FCBGA 1296
2. 1 M.2 2280 B-Key for SATA or PCIe SSD (2242 can be supported with bracket)
3. 1 non-ECC DDR3L SODIMM up to 8G
4. 1 Full size Mini-PCIe
5. Dual GbE LAN ports via Intel I210-AT
6. 1 HDMI, 1 VGA, Intel® HD Graphics
7. 1 USB 3.1, 2 USB 3.0, 4 USB 2.0, 4 COM, ALC 888S HD Audio
8. Fanless design
9. Lockable 12V DC 40W power adapter

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

[Tested M.2 List](#) ([/en/support/resources/m2ssd?SystemID=85806&ProductName=SSE100-9APP](#))

[Manuals](#)

[OS Certification Matrix](#)  
([/support/resources/OS/OS\\_Certification\\_Intel.cfm?MProduct\\_Name=SYS%2DE100%2D9APP](#))

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

## Specifications

## Product SKUs

**SYS-E100-9APP**  
SuperServer E100-9APP (**Black**)

## Motherboard

**Super X11SAN**  
[\(/products/motherboard/X11/X11SAN.cfm\)](/products/motherboard/X11/X11SAN.cfm).

## Processor/Cache

**CPU**  
Intel® Pentium™ Processor N4200  
FCBGA 1296  
System-on-Chip  
CPU TDP support 6W

## 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-AT controller  
**Video**  
Intel HD Graphics

## Input / Output

**LAN**  
2 RJ45 Gigabit Ethernet LAN ports  
**USB**  
1 USB 3.1 (Type C, front)  
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, 1 Intel HD Graphics  
**Audio**  
ALC 888S HD Audio, 1 HD Audio header (Mic-in/Line-out)  
**TPM**  
1 TPM 2.0 Chip onboard  
**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** ([/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
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**Operating Environment / Compliance**

**RoHS**

RoHS Compliant

**Environmental Spec.**

- Operating Temperature:
  - 0°C to 40°C (32°F to 104°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

**Parts List**

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[Global SKU \(/en/products/SMC\\_global\\_skus\)](/en/products/SMC_global_skus)

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