

SuperServer E100-9APP



Integrated Board



Super X11SAN

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](#) ► [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-E100-9APP	■ SuperServer E100-9APP (Black)
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Motherboard

Super X11SAN

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	■ 1 DIO via DB9

Chassis

Form Factor	■ 3.5" SBC
Model	■ CSE-E101

Dimensions

Width	■ 7.68" (195mm) / 9.5" (241mm) - pkg.
Height	■ 1.73" (44mm) / 5.5" (140mm) - pkg.
Depth	■ 5.94" (151mm) / 8" (203mm) - 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)
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Drive Bays

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

Fans	■ Fan-less design
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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	■ <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:
0°C to 40°C (32°F to 104°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, random, 5~500 Hz, 1hr/axis
 - Operational Shock, IEC 60068-2-27,
30G, half sine, 11ms
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SAN	1	Super X11SAN Motherboard
	CSE-E101	1	Chassis for Embedded 3.5" SBC
Power Adapter	MCP-250-10124-0N	1	40W 12V 3.33A, AC to DC lockable power adapter (0-40°C)

Optional Parts List

	Part Number	Qty	Description
Chassis Parts	MCP-110-00097-0N	1	Mini PCI-E Half to Full Size Bracket