

SuperServer E100-9APP



Integrated Board



Super X11SAN

Views: | [Angled View](#) | [Front View](#) |

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-PCle |
| 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.

Product SKUs	
SYS-E100-9APP	■ SuperServer E100-9APP (Black)

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	■ 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-PCle (1 USB 2.0, 1 PCle Gen2)
Drive Bays	
Internal	■ 1 M.2 2280 B-Key for SATA or PCle 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	■ <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
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 required to meet 40°C operating temperature.

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-250-10135-0N	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