

SuperServer E100-9W-IA-L



Integrated Board



Super X11SWN-L-WOHS

Views: | [Angled View](#) | [Front View](#) | [Side View 1](#) | [Side View 2](#) |

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Key Applications

- **Industrial Automation & Control**
- **Machine Automation**

Key Features

1. 8th Generation Intel® Core™ i3-8145UE Processor; Single Socket FCBGA-1528
2. System-on-Chip
3. M.2: M-Key 2242/2280, E-Key 2230, B-Key 2242/2280
4. Up to 64GB Unbuffered Non-ECC SO-DIMM DDR4 2400MHz; 2 DIMM slots
5. Dual GbE LAN w/ Intel i219LM + i210IT
6. 4 COM (RS-232/422/485), 4 USB 3.1, 4 USB 2.0, 1 DIO via DB9
7. 1 HDMI and 1 Display Port
8. Fanless design
9. 12V DC 60W power adapter with Terminal Block, support 12-24V DC-in

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

Product SKUs

- **SYS-E100-9W-IA-L** ■ SuperServer E100-9W-IA-L (**Black**)

Motherboard

Super X11SWN-L-WOHS

Processor/Cache

- **CPU** ■ 8th Generation Intel® Core™ i3-8145UE Processor
- Single Socket FCBGA-1528
- System-on-Chip
- CPU TDP support 15W

Note BIOS version 2.0 or above is required

System Memory

- **Memory Capacity** ■ Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-2400MHz, in 2 DIMM slots
- **Memory Type** ■ DDR4 up to 2400MHz
- **DIMM Sizes** ■ 32GB, 16GB, 8GB, 4GB
- **Memory Voltage** ■ 1.2V

On-Board Devices

- **Chipset** ■ System on Chip
- **Network Controllers** ■ Single LAN with Intel® I210IT
- Single LAN with Intel® PHY I219LM
- **Audio** ■ ALC 888S HD Audio
- **Video** ■ Intel® UHD Graphics 620

Input / Output

- **LAN** ■ 2 RJ45 Gigabit Ethernet LAN ports
- **USB** ■ 4 USB 3.1 Gen2 ports (Type A), 4 USB 2.0 (Type A)
- **Video Output** ■ 1 HDMI and 1 Display Port
- **COM Port** ■ 4 COM ports: 2 RS232, 2 RS232/422/485, RS-485 supports auto flow control
- **Audio** ■ 1 HD Audio header (Mic-in/Line-Out) (option)
- **Others** ■ 8-bit configurable GPIO via DB9
- 1 TPM Chip

Chassis

- **Form Factor** ■ 3.5" SBC
- **Model** ■ **CSE-E101-IA2**

Dimensions

- **Width** ■ 7.64" (194mm) / 11.81" (300mm) - pkg.
- **Height** ■ 4.52" (115mm) / 5.12" (130mm) - pkg.
- **Depth** ■ 4.96" (126mm) / 11" (279mm) - pkg.
- **Weight** ■ Gross Weight: 4.3 lbs (1.95 kg)
- Net Weight: 3.7 lbs (1.68 kg)
- **Available Colors** ■ Black

Front Panel

- **Buttons** ■ Power On/Off button
- **LEDs** ■ Power LED and Hard drive activity LED

Expansion Slots

- **M.2** ■ Key: B-Key, M-Key, E-Key
- M.2 2242/3042/2280 B-Key (USB 3.0/2.0 x1, SATA Gen3 x1) with nano SIM holder
- M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/USB2)
- M.2 2242/2280 M-Key (PCI-E 3.0 x4, SATA Gen 3 x1), NVMe support

System Cooling

- **Fans** ■ Fan-less design

Power Supply

12V DC 60W power adapter with Terminal Block

System BIOS

- **BIOS Type** ■ AMI UEFI

Management

- **Software** ■ SuperDoctor® 5
- Watch Dog
- **Power Configurations** ■ +12V ~ +24V DC Wide power range input
- ACPI Power Management
- Control of power-on for recovery from AC power loss
- Force Power On by Jumper
- CPU thermal trip support for processor protection

Operating Environment / Compliance

RoHS

- RoHS Compliant

Environmental Spec.

- Operating Temperature:
0°C ~ 50°C (32°F ~ 122°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 50°C operating temperature.