SuperServer E100-9W-IA-H

Integrated Board

Super X11SWN-H-WOHS

Views: | Angled View | Front View | Side View 1 | Side View 2 |

▶**Drivers & Utilities**   ▶**BIOS**   ▶**IPMI**   ▶**Tested Memory**   ▶**Tested M.2 List**   ▶**Drive Options**   ▶**Manuals**   ▶
Quick-References Guide   ▶**OS Certification Matrix**

Key Applications

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

Key Features

1. 8th Generation Intel® Core™ i7-8665UE 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

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-H	SuperServer E100-9W-IA-H (**Black**)

Motherboard

Super X11SWN-H-WOHS

Processor/Cache

CPU	8th Generation Intel® Core™ i7-8665UE 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 - vPro - AMT
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.