

SuperServer E102-9W-C



Integrated Board



Super X11SWN-C

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

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

Key Features

- Industrial Automation, Retail
- Smart Medical Expert Systems
- Kiosk, Interactive info system
- Digital Signage

1. Intel® Celeron® Processor 4305UE; Single Socket FCBGA-1528
2. System-on-Chip
3. M.2: B-Key 2242/3042/2280, E-Key 2230, M-Key 2242/2280
4. Up to 64GB Unbuffered Non-ECC SO-DIMM DDR4 2133MHz; 2 DIMM slots
5. 1x 1GbE LAN, Intel PHY i219LM
1x 1GbE LAN, Intel i210IT
6. 4 COM (RS-232/422/485),
4 USB 3.1, TPM onboard
7. 1 HDMI and 1 Display Port
8. Passive CPU Heat Sink and
1x 40mm Chassis Fan
9. Lockable 12V DC 60W power adapter

Product SKUs

- **SYS-E102-9W-C** ■ SuperServer E102-9W-C (**Black**)

Motherboard

Super X11SWN-C

Processor/Cache

- **CPU** ■ Intel® Celeron® Processor 4305UE
- 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, DDR4-2133MHz, in 2 DIMM slots

- **Memory Type** ■ DDR4 up to 2133MHz

- **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

- **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 (option)

- **Audio** ■ 1 HD Audio header (Mic-in/Line-Out) (option)

- **Others** ■ TPM onboard

Chassis

- **Form Factor** ■ 3.5" SBC

- **Model** ■ **CSE-E102**

Dimensions

- **Width** ■ 7.48" (190mm) / 11.81" (300mm) - pkg.

- **Height** ■ 1.72" (44mm) / 5.12" (130mm) - pkg.

- **Depth** ■ 4.72" (120mm) / 11" (279mm) - pkg.

- **Weight** ■ Gross Weight: 4.5 lbs (2.04 kg)
- Net Weight: 2.65 lbs (1.2 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 (1 USB 3.0/2.0, 1 SATA Gen3) w 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 Gen3 x 1), NVMe support

System Cooling

- **Fans** ■ Passive CPU Heat Sink and 1x 40mm Chassis Fan

Power Supply

- Lockable 12V DC 60W power adapter

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)
- 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)

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SWN-C	1	Super X11SWN-C Motherboard
	CSE-E102	1	Embedded Enclosure for 3.5" SBC
Power Adapter	MCP-250-10134-0N	1	60W DC power adapter with US power cord 18AWG 6ft (0-40°C)
Cooling Fan	FAN-0170L4	1	40x40x10 mm, 7K RPM, SC101S Chassis Fan, RoHS
Cable	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable	CBL-PWEX-1029	1	PWR EXT,2X4F/P2.00 to 2x2MP4.2, 12V,15CM,24AWG, 2.5A/pin, -20~80C, RoHS
I/O Shield	MCP-260-10204-0B	1	CSE-E102 I/O shield for X11SWN