

## SuperServer E102-9W-C



**Integrated Board**



**Super X11SWN-C**

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

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [Tested M.2 List](#) | [Drive Options](#) | [Manuals](#) | [OS Certification Matrix](#)

### 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

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

#### 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	
<b>Form Factor</b>	■ 3.5" SBC
<b>Model</b>	■ CSE-E102
Dimensions	
<b>Width</b>	■ 7.48" (190mm) / 11.81" (300mm) - pkg.
<b>Height</b>	■ 1.72" (44mm) / 5.12" (130mm) - pkg.
<b>Depth</b>	■ 4.72" (120mm) / 11" (279mm) - pkg.
<b>Weight</b>	■ Gross Weight: 4.5 lbs (2.04 kg) ■ Net Weight: 2.65 lbs (1.2 kg)
<b>Available Colors</b>	■ Black
Front Panel	
<b>Buttons</b>	■ Power On/Off button
<b>LEDs</b>	■ Power LED and Hard drive activity LED
Expansion Slots	
<b>M.2</b>	<ul style="list-style-type: none"> <li>■ Key: B-Key, M-Key, E-Key</li> <li>■ M.2 2242/3042/2280 B-Key (1 USB 3.0/2.0, 1 SATA Gen3) with nano SIM holder</li> <li>■ M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/USB2)</li> <li>■ M.2 2242/2280 M-Key (PCI-E 3.0 x4, SATA Gen3 x 1), NVMe support</li> </ul>
System Cooling	
<b>Fans</b>	■ Passive CPU Heat Sink and 1x 40mm Chassis Fan
Power Supply	
Lockable 12V DC 60W power adapter	
System BIOS	
<b>BIOS Type</b>	■ AMI UEFI
Management	
<b>Software</b>	<ul style="list-style-type: none"> <li>■ <u>SuperDoctor® 5</u></li> <li>■ Watch Dog</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>■ +12V ~ +24V DC Wide power range input</li> <li>■ ACPI Power Management</li> <li>■ Control of power-on for recovery from AC power loss</li> <li>■ Force Power On by Jumper</li> <li>■ CPU thermal trip support for processor protection</li> </ul>
Operating Environment / Compliance	
<b>RoHS</b>	■ RoHS Compliant
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>■ Operating Temperature: 0°C ~ 50°C (32°F ~ 122°F)</li> <li>■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>■ Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>■ Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11SWN-C	1	Super X11SWN-C Motherboard
	CSE-E102	1	Embedded Enclosure for 3.5" SBC
<b>Power Adapter</b>	MCP-250-10134-0N	1	60W DC power adapter with US power cord 18AWG 6ft (0-40°C)
<b>Cooling Fan</b>	FAN-0170L4	1	40x40x10 mm, 7K RPM, SC101S Chassis Fan, RoHS
<b>Cable</b>	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
<b>Cable</b>	CBL-PWEX-1029	1	PWR EXT,2X4F/P2.00 to 2x2M/P4.2, 12V,15CM,24AWG, 2.5A/pin, -20~80C, RoHS
<b>I/O Shield</b>	MCP-260-10204-0B	1	CSE-E102 I/O shield for X11SWN