

SuperServer E102-9W-L



Integrated Board



Super X11SWN-L

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.

Product SKUs

SYS-E102-9W-L ■ SuperServer E102-9W-L (Black)

Motherboard

Super X11SWN-L

Processor/Cache

CPU ■ 8th Gen. 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

Video ■ Intel® UHD Graphics 620

Input / Output

USB ■ 4 USB 3.1 Gen2 ports (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)

Others ■ TPM onboard

Key Features

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

1. 8th Gen. Intel® Core™ i3-8145UE Processor; 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 2400MHz; 2 DIMM slots

5. 1x 1GbE LAN, Intel PHY i219LM
 1x 1GbE LAN, Intel i210IT

6. 4 COM (RS-232/422/485) Opt., 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

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 | <ul style="list-style-type: none"> ■ Key: B-Key, M-Key, E-Key ■ M.2 2242/3042/2280 B-Key (1 USB 3.0/2.0, 1 SATA Gen3) 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 |
|------------|--|

Drive Bays

| | |
|-----------------|---|
| Internal | <ul style="list-style-type: none"> ■ 1 M.2 2242/2280 B-Key SATA ■ 1 M.2 2242/2280 M-Key (NVMe Support) ■ 1 SATA 2.5" 7mm SSD/HDD |
|-----------------|---|

System Cooling

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

Power Supply

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|-----------------------------------|
| Lockable 12V DC 60W power adapter |
|-----------------------------------|

System BIOS

| | |
|------------------|------------|
| BIOS Type | ■ AMI UEFI |
|------------------|------------|

Management

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|-----------------------------|--|
| Software | <ul style="list-style-type: none"> ■ <u>SuperDoctor® 5</u> ■ Watch Dog |
| Power Configurations | <ul style="list-style-type: none"> ■ +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. | <ul style="list-style-type: none"> ■ 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-L | 1 | Super X11SWN-L 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 2x2M/P4.2, 12V,15CM,24AWG, 2.5A/pin, -20~80C, RoHS |
| I/O Shield | MCP-260-10204-0B | 1 | CSE-E102 I/O shield for X11SWN |