

SuperServer E102-9W-H



Integrated Board



Super X11SWN-H

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-H ■ SuperServer E102-9W-H (Black)

Motherboard

Super X11SWN-H

Processor/Cache

CPU ■ 8th Gen. 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

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)

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

Others ■ TPM onboard

Key Features

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

1. 8th Gen. Intel® Core™ i7-8665UE 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	■ 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	■ 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	
Lockable 12V DC 60W power adapter	
System BIOS	
BIOS Type	■ AMI UEFI
Management	
Software	■ <u>SuperDoctor® 5</u> ■ 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) ■ 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-H	1	Super X11SWN-H 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