

SuperServer E100-12T-E



Integrated Board



Key Applications

- Industrial Automation, Retail
- Smart Medical Expert Systems
- Kiosk, Interactive info system
- IoT Gateway for Smart Factory
- Smart Building
- Security and Surveillance
- Digital Signage

Key Features

1. 11th Generation Intel® Core™ i5-1145GRE Processor; Single Socket FCBGA-1449
2. System-on-Chip
3. M.2: B-Key, M-Key, E-Key
M.2 2242/3042/2280 B-Key (USB3.0/2.0, SATA Gen3/PCI-E 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 4.0 x4), NVMe support
4. Up to 64GB Unbuffered Non-ECC SO-DIMM DDR4 3200MHz; 2 DIMM slots
5. Dual 2.5GbE LAN w/ Intel I225-IT
6. 4 COM (RS-232/422/485), 3 USB 3.2, 1 USB-C 3.2, 4 USB 2.0, 1 DIO via DB9
7. 1 HDMI 2.0b (4K60Hz), 1 HDMI 1.4b
8. -30°C to 50°C Operating Temperature
9. Lockable 12V DC 84W power adapter

Specifications

Product SKUs

SYS-E100-12T-E ■ SuperServer E100-12T-E (Black)

Motherboard

Super X12STN-E-WOHS

Processor/Cache

CPU ■ 11th Generation Intel® Core™ i5-1145GRE Processor
 ■ Single Socket FCBGA-1449
 ■ System-on-Chip
 ■ CPU TDP support up to 12/15/28W

Note BIOS version 2.0 or above is required

System Memory

Memory Capacity ■ Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-3200MHz, in 2 DIMM slots

Memory Type ■ DDR4 up to 3200MHz

DIMM Sizes ■ 32GB, 16GB, 8GB, 4GB

Memory Voltage ■ 1.2V

On-Board Devices

Chipset ■ System on Chip

Network Controllers ■ Dual 2.5GbE LAN with Intel® I225-IT

Audio ■ ALC 888S HD Audio

Video ■ Intel® Xe Graphics

Input / Output

USB ■ 3 USB 3.2 ports, 1 USB-C 3.2 port, 4 USB 2.0 ports

Video Output ■ 1 HDMI 2.0b (4K60Hz), 1 HDMI 1.4b

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) [optional]

Others ■ 1 DIO via DB9

Chassis

Form Factor ■ 3.5" SBC

Model ■ CSE-E101-03

Dimensions

Width ■ 7.68" (195mm) / 11.81" (300mm) - pkg.

Height ■ 1.73" (44mm) / 5.12" (130mm) - pkg.

Depth ■ 5.94" (150mm) / 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
 ■ E-Key (CNVi/PCI-E 3.0 x1/USB2) M.2 2242/2280
 ■ M-Key (PCI-E 4.0 x4), NVMe support

System Cooling

Fans ■ Fan-less design

Power Supply

Lockable 12V DC 84W power adapter

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:
-30°C ~ 50°C (-22°F ~ 122°F) with 0.7 m/s air flow. The use of industrial grade wide-temperature peripherals is required to meet 50°C operating temperature.
 - 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
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12STN-E-WOHS	1	Super X12STN-E-WOHS Motherboard
	CSE-E101-03	1	Fanless Enclosure for 3.5" motherboard
Power Adapter	MCP-250-10137-0N	1	84W, Locable AC to DC adapter without power cord - EN62368