IoT SuperServer E100-12T-H



Integrated Board



(/en/products/motherboard/X12STN-H-

WOHS)

<u>Super X12STN-H-WOHS (/en/products/motherboard/X12STN-H-WOHS)</u>

Views: Angled View (/a images/products/views/E100-12T angle.jpg) Front View (/a images/products/views/E100-12T front.jpg) Rear View (/a images/products/views/E100-12T rear.jpg)

Drivers & Utilities BIOS IPMI Tested Memory

<u>Tested M.2 List (/en/support/resources/m2ssd?</u> <u>SystemID=87733&ProductName=SSE100-12T-H)</u>

<u>Manuals</u>

OS Certification Matrix (/support/resources/OS/OS Certification Intel.cfm? MProduct Name=SYS%2DE100%2D9W%2DH)

Quick-References Guide

AWS IoT Guide (/manuals/other/AWS IoT SYS-E100-12T-H.pdf)

<u>AWS Greengrass Guide (/manuals/other/AWS Greengrass SYS-E100-12T-H.pdf)</u>

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

Specifications

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™ i7-1185GRE Processor; Single Socket FCBGA-1449
- 2. System-on-Chip
- 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 (add MCP-270-10105-0B Fin Bottom Cover)
- 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
- 10. Hailo-8™ powerful and efficient Edge Al solution integration ready

Product SKUs SYS-E100-12T-H

SuperServer E100-12T-H (Black)

Chassis Form Factor

3.5" SBC

Model CSE-E101-03

Motherboard

Super X12STN-H-WOHS

(/en/products/motherboard/X12STN-H-WOHS)

Processor/Cache

CPU

11th Generation Intel® Core™ i7-1185GRE Processor

Single Socket FCBGA-1449

System-on-Chip

CPU TDP support up to 12/15/28W

Note

BIOS version 1.1 or above is required

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

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

Front Panel

Buttons

Power On/Off button

LEDs

Power LED and Hard drive activity LED

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

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

Lockable 12V DC 84W power adapter

System Cooling

Fans

Fan-less design

Power Supply

System BIOS

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

8-bit configurable GPIO via DB9

Management

Software

BIOS Type AMI UEFI

SuperDoctor® 5 (/products/nfo/SMS SD5.cfm)

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 $\sim 50^{\circ}$ C (-22° F $\sim 122^{\circ}$ 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

Parts List

Global SKU (/en/products/SMC_global_skus)