

Lenovo
ThinkEdge

SE10 Series

Compact. Powerful. Adaptable.



Smarter
technology
for all

Lenovo

A new era of Lenovo Edge computing has begun

Lenovo has set out to solve some of the toughest challenges you face when it comes to capturing data at the outermost edge for your business.

No edge environment is created exactly the same and the features and functionalities you need from your edge devices often vary. This is why we're revolutionizing our ThinkEdge portfolio with the most versatile edge client ever created. Meet the Lenovo ThinkEdge SE10 and SE10-I.



Compact Yet Powerful

This compact, yet powerful edge client is built to be unconstrained on entry performance. These devices balance environmental requirements with reliable performance and effortless deployment and maintenance.



More Versatility

The Lenovo ThinkEdge SE10 is the most versatile product in the Lenovo ThinkEdge portfolio. From extreme temperatures to the most constrained spaces, Lenovo ThinkEdge SE10 users can now scale the spectrum of ruggedness and flexibility thanks to the ground up modular design.



Extensive range of applications

The Lenovo ThinkEdge SE10 has purposeful design features and attributes that address an extensive range of vertical applications, including retail, manufacturing, logistics, smart spaces and more. It can handle any environment where data capture and processing is required.



Built-in reliability and connectivity

True to the Lenovo brand, the fanless Lenovo ThinkEdge SE10 and SE10-I are rugged, built to withstand environments from 0° to 50° C (SE10) and -20° to 60° C (SE10-I) and come with an IP50 rating. Lenovo's ThinkEdge SE10 devices are MIL-STD-810 certified, with vertical IO to fit all Edge use cases.



Committed To Innovation

The Lenovo ThinkEdge SE10 and SE10-I were custom designed for use in a wide range of industries, from commercial to industrial.



Power and reliability at the edge

The Lenovo ThinkEdge SE10 is the first ThinkEdge client in the Lenovo portfolio to be part of the Intel Atom Elkhart Lake class. With increased performance and graphics capabilities, the Lenovo ThinkEdge SE10 series features the Intel ATOM Elkhart Lake CPU up to 4 Core to capture data at the outermost edge. Additionally, through Windows 10 IoT LTSC and Ubuntu Server 22.04 with Core 22, lack of memory space never needs to be a concern.



Easy Deployment & Maintenance

As the smallest member of the ThinkEdge family with no sacrifice on vertical IO connectivity, the Lenovo ThinkEdge SE10 and SE10-I offer DIN and Rail mounting for easy deployment and maintenance. The Lenovo ThinkEdge SE10 is also compatible with Commercial Desktop Tiny sandwich BKT which enables an easy transfer to a fanless solution.

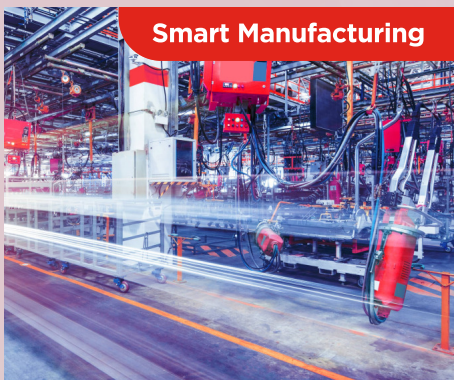


Manageability

The Lenovo ThinkEdge SE10 series, armed with the latest Lenovo Open Cloud Automation (LOC-A), combined with enhanced XClarity capability, provides one platform for both Edge Client and Edge Server devices on-premise deployment & maintenance. Both devices are Microsoft Azure IoT Edge & Amazon Web Service (AWS) IoT Greengrass certified, which means quick deployment through simplified device integration.

The Lenovo ThinkEdge SE10 series is well-suited for a number of vertical markets.

The The Lenovo ThinkEdge SE10 thrives in retail, hospitality and quick service restaurants (QSR), while the Lenovo ThinkEdge SE10-I is a perfect fit for manufacturing and logistics environments.



Smart Manufacturing

- ▶ Rugged PC with broad range of I/O for machine connectivity
- Automated sorting and process
- Machine control and data capture



Smart Retailing

- ▶ Signage and self-service kiosks
- ▶ Multi-signage display
- ▶ Reliable, easy-to-maintain kiosks



Smart Spaces

- ▶ Facilities and infrastructure
- ▶ Ruggedized, less maintenance
- ▶ Industrial IO connectivity

SE10



Performance Processor

- Intel ATOM Elkhart X6214RE, 6W 2 Core CPU
- Intel ATOM Elkhart X6425RE, 12W 4 Core CPU

Memory & Storage

- 2x SoDIMM DDR4, up to 32GB
- 1x M.2 SSD up to 1T, 1x SD

Power

- 65W AC adapter

Connectivity Front Input/Output ports

- 2x USB 3.2 Gen2
- 2x RS232/422/485
- 1x MIC-in
- 1x Line-out
- 2x RP-SMA (WWAN)
- 3x LED indicators
- 1x Power button
- 1x Reset switch



Rear Input/Output Ports

- 2x USB 2.0
- 2x 2.5G LAN
- 1x HDMI 1.4b
- 1x DP 1.4
- 1x AC power in
- 1x Chassis Grounding
- 2x RP-SMA Ant. (Wi-Fi/BT)

Side Input/Output

- 1x SD slot (left)
- 1x Nano SIM slot (left)
- 1x Kensington Lock (right)

Wireless (option)

- W-Fi6 802.11ax dual band 2x2 / BT5.1 combo
- 4G WWAN, CAT-4

Design

- Fanless
- Dimension: 179mm x 135mm x 34.5mm (7.04in x 5.3in x 1.36in)
- Net weight: 1.5Kg / 3.31 lb

SE10-I



Performance Processor

- Intel ATOM Elkhart X6214RE, 6W 2 Core CPU
- Intel ATOM Elkhart X6425RE, 12W 4 Core CPU

Memory & Storage

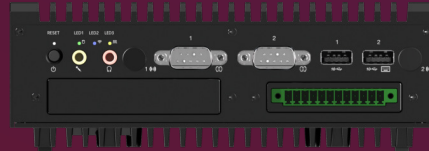
- 2x SoDIMM DDR4, up to 32GB
- 64GB eMMC, 1x M.2 SSD up to 1T, 1x SD

Power

- Industrial power inlet: 9-36VDC or 65W AC adapter

Connectivity Front Input/Output ports

- 2x USB 3.2 Gen2
- 2x RS232/422/485
- 1x MIC-in
- 1x Line-out
- 2x RP-SMA Ant. (WWAN)
- 3x LED indicators
- 1x Power button
- 1x Reset switch
- 4x DI / 4x DO (option)
- Expansion IO (option)
 - 2x RS232/422/485 or
 - 2x CAN BUS or
 - 2x PoE (PSE 15.4W)



Rear Input/Output Ports

- 2x USB 2.0
- 2x 2.5G LAN
- 1x HDMI 1.4b
- 1x DP 1.4
- 1x 9-36VDC power in
- 1x Chassis Grounding
- 1x Remote power on switch
- 2x RP-SMA Ant. (Wi-Fi/BT)

Side Input/Output

- 1x SD slot (left)
- 1x Nano SIM slot (left)
- 1x Kensington Lock (right)

Wireless (option)

- Wi-Fi5 802.11ac dual band 2x2 / BT5.0 combo
- Wi-Fi6 802.11ax dual band 2x2 / BT5.1 combo
- 4G WWAN, CAT-4

Design

- Fanless
- Dimension: 179mm x 135mm x 60mm (7.04in x 5.3in x 1.45in)
- Net weight: 2.6Kg / 5.51 lb

SE10 Series

SE10 EDGE CLIENT THE LENOVO ADVANTAGE

- ▶ Higher-performing CPU
- ▶ Transparent supply chain
- ▶ Best-in-class engineering



SE10 PRODUCT HIGHLIGHTS

- Fanless design (SE10 0°~50°C and SE10-I -20°~60°C operating temperatures)
- Diverse I/O port support: 2 x 2.5G LAN, 2 x Serial, 4 x USB, 1 x DP, 1 x HDMI
- More options on SE10-I with 4xDI/4xDO, 2xSerial or 2xCAN or 2xPoE
- DIN rail, wall mount support
- High-performing computing and memory
- IEC61010 Industrial Certified
- MIL-STD 810G certified

SW AND IOT CERTIFICATIONS

- Win10 IoT LTSC & Ubuntu OS
- Ubuntu, RHEL certified
- AWS IoT Greengrass certified
- Microsoft Azure IoT Edge certified

SPECIFICATIONS

OPERATING SYSTEM

- Windows 10 IoT LTSC 2021
- Ubuntu Server 22.04, Core 22
- Ubuntu Certification
- REHL Certification

STORAGE

- Non-Operating: -40°C ~ 85°C
- Non-Operating Humidity: 60°C @90%

IP PROTECTION

- IP50 kits (Option)

SECURITY

- ThinkShield Security Compliant
- HW TPM 2.0
- BitLocker
- HDD Password
- Tamper Switch
- Smart USB protection
- Kensington lock slot

REGULATION

- CE, FCC, Class B, BSMI, CCC
- UL (ETL), BSMI, CB, CCC
- ErP Lot 6, Low Halogen, RoHS compliant, REACH, PCF, TED, WEEE

OPERATING TEMPERATURE

- SE10: 0-50°C, 0.7m/s air flow
- SE10-I: -20-60°C, 0.7m/s air flow

OPERATING VIBRATION & SHOCK

- Vibration: 3Grms, Random, 5-500Hz, 1hr/axis
- Shock: 30G/11ms, half sine

MECHANICAL MOUNTING

- 75x75/100x100 VESA mount
- DIN Bracket (Option)
- ThinkCentre Tiny sandwich bracket compatible. (SE10 only)

MANAGEABILITY

- XClarity in-band Management



Ready to take data capturing and processing at the edge to the next level? Visit www.lenovo.com/ThinkEdge

