

ThinkCentre

Smarter  
technology  
for all

Lenovo

# LENOVO DESKTOPS FOR A SMART FACTORY EXPERIENCE

▶ Learn more at [Lenovo.com](https://lenovo.com)



Built for Business

Intel vPro® platform



# DIGITIZING THE MANUFACTURING INDUSTRY

The manufacturing industry has long marched to the digitization drumbeat. Advancements in technology have acted as a catalyst, transforming the shop floor infrastructure to connect R&D to supply chain management. With data collection and analytics, real-time updates are now possible at every stage of production.

Industry 4.0 has converged the physical and digital worlds with technologies such as IoT, AI, Cloud, Big Data, Analytics, and 3D-printing. These are among the emerging technologies that enabled the rise of smart factories. By using Cloud-based automatic data collection and analysis to ensure a transparent supply chain and facilitate informed decision making, organizations have reaped the benefits of increased ROI. Factories are becoming digitally connected and increasingly automated, and one thing is clear – the Fourth Industrial Revolution is all about reinventing the manufacturing industry.

To benefit from the revolution, organizations need to recognize their challenges and strategize accordingly. Some of the biggest challenges manufacturing businesses face are:

- **Harnessing the power of Big Data and Analytics**
- **Data security**
- **Implementing IoT innovation**
- **Improving workforce productivity**

To overcome these challenges, organizations need reliable and innovative technology, powered by **Intel® vPro® Essentials and Enterprise platform** and Windows 11 Pro, to deliver higher workforce productivity, better decision making through effective analytics, and faster product development. Lenovo's business-boosting technologies can empower their future-ready workforce to stay productive, connected, and secure – wherever work happens.



Built for Business Intel vPro® platform



## WHY LENOVO DESKTOPS FOR MANUFACTURING

The ThinkCentre, Lenovo's enterprise class desktop solution, is known for top-notch performance, practical expandability and enterprise-grade security.

Powered by the latest processors, it has robust memory, powerful graphics, MIL-standard durability, multi-monitor setup support, and compatibility with any Cloud ecosystem – a best-in-class desktop solution that builds the fundamentals of manufacturing technologies in big data analysis, security management, collaboration and AI edge computing.

▶ Learn more at [Lenovo.com](https://www.lenovo.com)

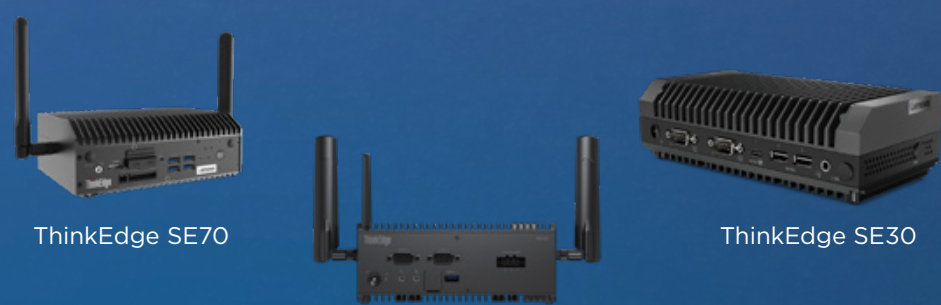


# MILITARY-STD-810H DURABILITY & RELIABILITY

ThinkCentre M product portfolio is Military Standard (MIL-STD) Certified with 12 methods and 20 procedures.



ThinkCentre M Tower    ThinkCentre M SFF    ThinkCentre M Tiny    ThinkCentre All-In-One



ThinkEdge SE70    ThinkEdge SE50    ThinkEdge SE30



Intel vPro® platform



**VIBRATION**  
Tested while running and turned off



**HUMIDITY**  
95% relative humidity, at 30°C-60°C



**HIGH TEMPERATURE**  
Storage: 63°C for 24 hrs  
Operation: 43°C for 2 hrs



**FUNGUS**  
28 days with common fungus sources



**SOLAR RADIATION**  
Three 24-hr. cycles of simulated UV radiation



**TEMPERATURE SHOCK**  
Tested in temperature shock cycles going from -25°C to 60°C for 6 hrs



**LOW TEMPERATURE**  
Storage: -25°C for 24 hrs  
Operation: -21°C for 2 hrs



**SAND & DUST**  
140 mesh silica dust for 14 hr. cycles



**CONTAMINATION BY FLUIDS**  
Chemicals on exposed surface 5-10 min



**ALTITUDE**  
Tested for operations at 15,000 feet



**SHOCK**  
Transit dropped tested in every corner 26 times



**SALT FOG**  
24 hrs spray + 24 hrs dry, 2 cycles



# THINKCENTRE ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG)

Lenovo



## CIRCULAR ECONOMY

Our product takeback programs (PTBs) make it very easy for customers around the world to recycle their old devices, batteries, and packaging. Keeping end-of-life products **out of landfills**.



## SUSTAINABLE PACKAGING

Now uses **30%** recycled white EPE foam.  
By 2025, **90%** will be made from recycled materials.



## SOCIAL IMPACT

Lenovo ThinkCentre products, powered by up to **Intel vPro® with 12th Gen Intel® Core™ i9 processors**, are made with **conflict-free minerals**.

## 5 KEY FOCUS AREAS



## ENERGY CONSERVATION/ CARBON MITIGATION

As of March 2021, ThinkCentre energy achieved a 33.06% efficiency saving of 100 million kWh could **Round the Earth 13400 times** with an electric vehicle. By 2050, we will improve to 50%.



## RECYCLED MATERIALS

**100%** of the ThinkCentre models released after 2019 uses recycled plastic content.



Intel vPro® with 12th Gen  
Intel® Core™ i9 processor

▶ Learn more at [Lenovo.com](https://www.lenovo.com)





# ThinkEdge SE

With a ruggedized design built to tackle complex environments and automate Internet of Things (IoT) applications, ThinkEdge SE devices are powered by the latest **Intel vPro® with 12th Gen Intel® Core™ i5 processor** to streamline manufacturing operations with real-time data processing from operations to IT. This makes it ready-built for challenging edge applications, complete with Wi-Fi, Bluetooth®, and 4G LTE or 5G WWAN wireless connections to efficiently transport your IoT data to the cloud or your data center.

An optional IOBOX with configurable serial interfaces, two POE ports, and DI/DO connectors provides even greater connectivity for manufacturing scenarios.

## SUITABLE FOR

IoT management, as well as planning and design for sensors and devices integration.

## KEY FEATURES

MIL-STD-810H, Operating temperature range from -20° to 60° C, Self Healing BIOS, BIOS-based Smart USB Protection



Intel vPro® with 12<sup>th</sup> Gen  
Intel® Core™ i5 processor



ThinkEdge SE70



ThinkEdge SE50



ThinkEdge SE30

## ThinkEdge SE30

### Processor

Up to 12<sup>th</sup> Gen Intel® Core™ i5  
vPro® Processor

### Storage

256GB SSD+ 512GB SSD

### Graphic

Integrated GPU

### Memory

8GB

### Security

Kensington™ Cable Lock, VESA  
mount lock, Intel® vPro®

### Green Certifications

ErP Lot 6, Low Halogen, RoHS  
compliant, REACH, PCF, TED  
(ECO-declaration), WEEE

### Other Certifications

EMC, EMC CE / FCC Class B,  
BSMI, CCC, Safety: UL(ETL),  
BSMI, CB, CCC



# ThinkCentre M90

The newest generation of ThinkCentre M90 series offer best-in-class performance, expandability, and security delivered in even smaller, modern desktop designs that boost productivity as well as business.

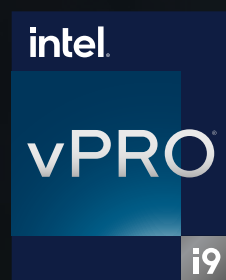
With up to **Intel vPro® with 12th Gen Intel® Core™ i9 processor**, ThinkCentre M90 offers robust, unrivaled performance, lightning-fast speed, productivity enhancing upgrades like Modern Standby, and the ability to connect to up to three displays. Maximum expandability lets you bridge between legacy peripherals and future storage needs. Security and manageability are covered inside and out with ThinkShield solutions and the **Intel® vPro® platform** – so power users in the manufacturing industry such as technical engineers and concept designers can safeguard their data confidently.

## SUITABLE FOR

Head of R&D and Product Manager who require high performance computing on product research for innovation, development, testing, and analysis

## KEY FEATURES

Intel vPro® Enterprise, dTPM 2.0 chip, Self Healing BIOS , BIOS-based Smart USB Protection, Intelligent Cooling Engine (ICE 5.0), Supports up to 4 monitors



Intel vPro® with 12<sup>th</sup> Gen Intel® Core™ i9 processor



ThinkCentre M90t Tower

## ThinkCentre M90t Tower

### Processor

Up to 12<sup>th</sup> Gen Intel® Core™ i9 vPro® Processors

### Storage

2 x 512GB SSD + 1TB HDD

### Graphics

Discrete GPU

### Memory

4 x 16GB

### Security

SentinelOne, Intel® vPro® Enterprise, , Kensington™ Cable

### Certifications

MIL-STD-810H, Energy Star®, EPEAT™, RoHS, TÜV Rheinland®, Low Noise, TCO 8.0

## RECOMMENDED ADD-ONS



ThinkVision P27q-30



Kensington Security lock



SentinelOne





# ThinkCentre M80

Lenovo ThinkCentre M80 is built to accelerate your innovation, whichever industry you are in. With up to **Intel vPro® with 12th Gen Intel® Core™ i9 processor**, the all-new ThinkCentre M80 offers powerful performance to meet today’s needs plus easy ways to expand and upgrade now or over the long term. Users can connect to up to three displays for maximum multitasking.

Professionals in the manufacturing industry such as warehouse and logistics managers can secure their data with built-in security features such as ThinkShield solutions and the Intel® vPro® Enterprise platform.

## SUITABLE FOR

Testing in Production (TiP), that requires manufacturing QC and sensitive data security compliance.

## KEY FEATURES

Intel vPro® Enterprise, dTPM 2.0 chip, Self Healing BIOS , BIOS-based Smart USB Protection, Intelligent Cooling Engine (ICE 5.0), Supports up to 4 monitors



Intel vPro® with 12<sup>th</sup> Gen Intel® Core™ i9 processor

ThinkCentre M80s SFF



## ThinkCentre M80s SFF

### Processor

Up to 12<sup>th</sup> Gen Intel® Core™ i9 vPro® Processors

### Storage

512GB SSD + 1TB HDD

### Graphics

Discrete GPU

### Memory

2 x 32GB

### Security

SentinelOne, Intel® vPro® Platform, Kensington™ Cable Lock

### Certifications

MIL-STD-810H, Energy Star®, EPEAT™, RoHS, TÜV Rheinland®, Low Noise, TCO 8.0

## RECOMMENDED ADD-ONS



ThinkVision P27i-30



Custom Image Services



ThinkShield Protection





# ThinkCentre M70

The newest ThinkCentre M70 is powered by **Intel® Core™ i3 processors** that offer enterprise-level performance, speed, and potential in a desktop so small it can fit almost anywhere. With easy handling of heavy files and efficient multitasking capability, production and operations managers can amplify productivity.

It's also configurable and expandable, with low energy consumption and a host of other features such as offers remote power-up and support for up to four independent monitors. ThinkCentre M70 with the M70 vPro Essentials platform combines everything users want with the security and manageability capabilities businesses need.

## SUITABLE FOR

Manufacturing facility managers who are in-charge of manufacturing plant compliance, productivity requirements, and business needs.

## KEY FEATURES

Modern Standby, Supports up to 4 independent monitors, Smart Power On



Powered by  
Intel® Core™ i3 processor



ThinkCentre M70q Tiny



## ThinkCentre M70q Tiny

<b>Processor</b> Up to 12 <sup>th</sup> Gen Intel® Core™ i3 Processors	<b>Security</b> Mount Kit, Kensington™ Cable Lock
<b>Storage</b> 1TB HDD	<b>Certifications</b> MIL-STD-810H, Energy Star® v 8.0, EPEAT™ Gold, RoHS, ERP LOT3, TÜV Ultra Low Noise, TCO 9.0, Anti-Dust Performance Verification -UL, Verified Mark (Option)
<b>Graphic</b> Integrated GPU	
<b>Memory</b> 8GB	

## RECOMMENDED ADD-ONS



ThinkVision E24-28



Tiny Anti-Dust Mount



Asset Recovery Services



# HIGHLIGHT TECH

Manufacturing professionals don't just require cutting-edge devices with fast processors. They also need the latest technologies packed with smarter, intuitive features to elevate their work experience, secure their data, and at the same time leaving the smallest carbon footprint possible.

Lenovo

## LENOVO'S PORTFOLIO OF DESKTOPS MEETS THE DEMANDS OF A MODERN WORKFORCE WITH FEATURES SUCH AS:

- ◎ **Remote Management and Access (vPro™ Enterprise)**

With high-performance Intel vPro® Essentials, your IT team can remotely access your fleet of desktops, saving in both time and management costs.

- ◎ **Range of form factors**

Match your need with a Tower, Small Form Factor or Tiny, or choose a All-inOne and Tiny-in-One modular desktop.

- ◎ **WMI/SCCM**

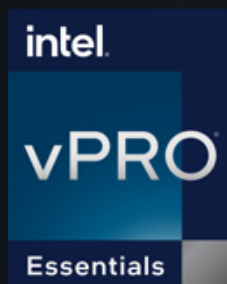
Enhance user experience by using these tools to consolidate the management of devices and applications in a network.

- ◎ **Smart USB Protection**

Prevents data from being transferred from USB ports while still allowing connection to peripheral devices such as mouse & keyboard.

- ◎ **Keyboard Power On**

No need to be close to your desktop anymore to activate it. Use the "Keyboard Power On" shortcut on your keyboard to turn on your device.



Intel vPro® Essentials





Lenovo



Built for Business

Intel vPro® platform

[www.lenovo.com](http://www.lenovo.com)

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