

AI-Enabled, AI-Ready

Article

It's Tomorrow

The next world-changing technology, Artificial Intelligence (AI), has arrived. Much like the Internet, the PC, and the mainframe before it, AI has now captured the attention and imagination of the world at large with applications like Bard and ChatGPT. For enterprises, AI represents a fundamental shift in nearly every aspect of business: product development, marketing, and customer interaction & support. Lenovo is uniquely positioned to help customers navigate that shift with AI-Ready products and solutions designed to deliver faster times to results.

The Most AI-Ready Portfolio, Anywhere

Over five years ago, Lenovo made a \$1.2B investment in AI, developing products and solutions across its businesses that would be AI-Ready. Today, AI is a \$2B business at Lenovo, and we have the industry's most comprehensive AI portfolio, with 71 different systems engineered for AI.

- **ThinkSystem Servers** – Starting with the award-winning, built-for AI SR670 V2, ThinkSystem servers are built to deliver the performance, security, and uptime needed in AI deployments. Nearly 30 ThinkSystem servers are built for machine learning (ML), training, and inference workloads.
- **ThinkEdge** – Compact, ruggedized systems built for AI where the data is created: in remote locations in the field, at the point of contact. ThinkEdge systems are purpose-built to deliver AI at the edge.
- **ThinkStation** – Powerful workstations designed for complex ML and algorithm development. These systems are built to reduce the labor-intensive tasks of pre-processing and data preparation, where data scientists spend nearly 90% of their time.
- **ThinkAgile** – With AI-enabled ThinkAgile HX solutions, customers can leverage AI and data analytics to build intelligence into business operations allowing our customers to deliver smart services and monetize their data quickly and easily.

Table 1. Supported ThinkSystem servers

Rack server Inference	Rack server ML 4-socket	Rack server 2-socket	DL training	DL liquid cooled training
SR645	SR850 V2	SR655	ST650 V2	SD650-N V2
SR630 V2	SR860 V2	SR665	ST650 V3	SD665-N V3
SR650 V2	SR850 V3	SR650 V2	SR670 V2 4x PCIe NVLink Bridge	SD650-I V3
SR630 V3	SR860 V3	SR650 V3	SR670 V2 8x PCIe NVLink Bridge	
SR645 V3		SR655 V3	SR670 V2 4-GPU HGX	
SR650 V3		SR665 V3	SR675 V3 4x PCIe NVLink Bridge	
SR655 V3			SR675 V3 8x PCIe NVLink Bridge	
SR665 V3			SR675 V3 4-GPU HGX	

Table 2. Supported ThinkEdge servers

Clients	Edge Server	AI Appliance
SE10	SE350	SE70
SE10-I	SE350 V2	SE70 AWS Panorama
M90n1 Nano IOT	SE360 V2	
SE30	SE450	
SE50		

Table 3. Supported Data Science & Edge Workstations

Edge Workstations	Desktop Workstations	Mobile Workstations
ThinkStation P3 Tiny	ThinkStation P3 Tower	ThinkPad P16v Gen1
ThinkStation P3 Ultra (RTX Ready)	ThinkStation P5	ThinkPad P1 Gen5/Gen6
	ThinkStation P620	ThinkPad P16 Gen1/Gen2
	ThinkStation P7	
	ThinkStation PX	

Table 4. Supported ThinkAgile systems

HX	VX	MX
HX1330	VX3331	MX3330-F
HX1331	VX3530-G	MX3330-H
HX2330	VX7531	MX3331-F
HX2331		MX3331-H
HX3330		MX3530-F
HX3331		MX3530-H
HX5530		MX3531-F
HX5531		MX3531-H
HX7530		
HX7531		

Establishing Global Partnerships, “at scale”

Perhaps most importantly, Lenovo recognizes that AI solutions will be delivered by multiple parties with different skills and offerings which customers value. We have established AI partnerships that run the gamut from startups to trillion-dollar technology behemoths.

NVIDIA announced at their recent GTC conference that Lenovo was the platform they and Microsoft were building the OVX/Digital Twin cloud solution. We have made those building blocks into orderable solutions from Lenovo so that customers can develop their Digital Twin environment on the same foundation as NVIDIA and Microsoft. Those solutions run from a single pod to a rack to 32 pods across 8 racks in a truly scalable approach.

A year ago, we announced the AI Innovators program to help incubate AI solutions from 25+ companies with great technologies that may have needed more depth and reach which Lenovo provides. Today, there are over 45 partners in the program with over 150 solutions, ready for deployment in customer environments ranging from retail to restaurants, energy to logistics and fintech to manufacturing. We have developed true partnerships with a diverse pool of solutions providers to deliver a customer-first deployment model.

Bring your own POC

Lenovo has four AI Innovation Centers worldwide that help customers evaluate solutions, execute Proof Of Concepts (POCs), and optimize configurations for AI solutions. Those centers are in Morrisville, NC, in the US, Stuttgart, Germany, Taipei, Taiwan, and Beijing in China. Customers can test their home-grown AI projects or the solution of an AI Innovator partner. This is a huge advantage when it comes time to deploy and implement an AI solution.

Ensuring that AI is Smarter Technology for All

AI, like all groundbreaking technologies that came before it, is not without the possibility it may be misused. Lenovo is deeply concerned that AI be developed and used consistently with our values. We have developed the Lenovo Responsible AI Committee to ensure our solutions and those of our AI innovator partners meet requirements that protect end users and ensure that AI is used fairly, ethically, and responsibly.

Conclusion

It is indeed tomorrow. Artificial Intelligence will be a part of everything our customers do from now on. They will need partners to guide them on their journey to AI-driven enterprises. With our announcements today, Lenovo continues its leadership in AI with systems, solutions, and partnerships designed to drive a faster time to value for customers' AI investments.

Related product families

Product families related to this document are the following:

- [Artificial Intelligence](#)

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