

Electronics

Cutting costs and complexity with **HCI**

Casmeit

Casmeit takes IT to the cloud with a Lenovo hyperconverged infrastructure (HCI) solution powered by VMware vSAN™—sending availability and agility soaring, while reducing management effort and operating costs.

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vmware®

Lenovo

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Who is Casmeit?

Jiangsu CAS Microelectronics Integration Technology Co. Ltd. (Casmeit) is an electronic components manufacturer with headquarters near the city of Xuzhou in eastern Jiangsu Province, China. Founded in 2018, Casmeit focuses on the research and development (R&D) and production of fan-out wafer-level packaging technology and other integrated circuit packaging solutions, commonly found in smartphones, wearables, and other mobile electronic devices.



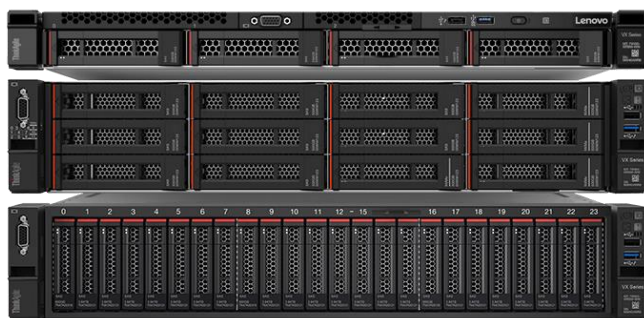
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The challenge

Casmeit's integrated circuit products may be small in size, but they play a mighty role in driving the electronic devices at the heart of modern life. To develop and manufacture these crucial components, Casmeit counts on a tightly connected web of systems, from precise quality assurance (QA) and manufacturing execution systems (MES) to more general enterprise resource planning (ERP) platforms.

Ensuring round-the-clock availability and reliable performance for these critical business systems is a top priority for the company. For years, Casmeit used a traditional data center infrastructure to support its operations. As the business expanded and demand for IT resources rose, the traditional infrastructure was stretched to its limits—putting increased pressure on the company's lean IT team.

In particular, day-to-day IT operations and maintenance were growing more complicated and costly. In addition to its headquarters in Xuzhou, Casmeit operates six branches and 11 sales departments across Jiangsu Province. When issues arose, IT personnel would travel from the headquarters to assist the affected site. To compound the challenge, Casmeit's infrastructure was made up of components from many different hardware vendors, adding to the overall complexity of management and support.



“Because we had a heterogenous environment, we often needed to connect with multiple suppliers when we extended or updated our IT infrastructure—a time-consuming process. It was also costly to maintain in-house skills in software and hardware solutions from multiple providers.”

Tian Feng

Manager of Information Management Department, Casmeit

Embracing the **future**

Casmeit decided to make the move to a modern hyperconverged infrastructure (HCI) solution based on Lenovo ThinkAgile VX. Powered by VMware vSAN™, the solution integrates computing, storage, and networking into a single system, forming the basis of a new private cloud platform.

The Lenovo HCI architecture is divided into three main layers: the terminal layer, virtual desktop layer and background application layer. Because each user terminal is isolated, the background application server can be well protected, yet all personal desktops, applications, and documents can be centrally controlled in the virtual desktop layer. Not only does this architecture ensure the transmission security of the network layer, it also enhances the company's overall information security posture.

Hardware

Lenovo ThinkAgile VX Series

Software

Lenovo SDI Management Platform
VMware Horizon®
VMware vSAN™
VMware vSphere®

Services

Lenovo Implementation Services

Working with Lenovo, Casmeit deployed six Lenovo ThinkAgile VX Series nodes as the foundation of its HCI platform. In just over a month, the implementation team successfully migrated all business applications, 30 virtual machines (VMs), and 50 cloud desktops to the new environment. Today, Casmeit makes use of VMware Horizon® software to centrally deploy and manage virtual desktops across its private cloud. The company also harnesses Lenovo SDI Management Platform to manage both virtual and physical infrastructure components from a single point of control, greatly simplifying administration and maintenance.



“With Lenovo, we essentially have a one-stop shop for solution design, software, hardware, and services. This is a great advantage as it saves us from having to go back-and-forth with many different suppliers, improving the efficiency of our operations.”

Tian Feng

Manager of Information Management Department, Casmeit

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Results

With its Lenovo HCI platform, Casmeit has lifted availability and stability to new heights. Offering 99.999% availability, the Lenovo ThinkAgile servers allow the company to maximize uptime and ensure that critical business systems run reliably around the clock.

Casmeit also benefits from improved hardware utilization, cutting energy consumption and costs. In fact, Lenovo's hyperconverged platform, through VMware virtualization technology including vSphere® and vSAN, has been shown to increase server utilization rates from less than 15% to as much as 80%, greatly increasing efficiency.

For the IT team, Lenovo HCI solutions have brought a newfound ease to infrastructure management. With a shared pool of cloud resources that can be scheduled and allocated flexibly, and managed uniformly. This means that IT staff spend less time on management and maintenance, and can respond much faster to new demands from the business, bringing added agility to Casmeit's operations.



Five nines availability



Up to 80% greater server utilization



Simplifies infrastructure management



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“We are very pleased with the quality, reliability, and ease-of-use of our Lenovo HCI solution. It’s easy to see why Lenovo is considered one of the world’s leading brands.”

Tian Feng

Manager of Information Management Department,
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Why **Lenovo**?

Lenovo's strong reputation as a hardware provider and longstanding partnership with VMware were decisive factors in Casmeit's choice of HCI platform. Tian Feng, Manager of the Information Management Department at Casmeit, explains: "Lenovo and VMware stand out as leaders in their respective fields, and we felt confident choosing a solution built on integrated offerings from both vendors."

Casmeit has also enjoyed top-notch communication and support from Lenovo at every step on its journey to the new HCI platform. Feng confirms: "The Lenovo team has been very professional and responsive. The pre-sales team did a great job of assessing our environment and exploring potential options; Lenovo also managed the implementation very smoothly, and we value the ongoing service very much."



How do you eliminate business growing pains?

Embracing a modern HCI solution with Lenovo and VMware.

Explore Software-Defined Infrastructure Solutions

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