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ThinkStation

Redefining workplace flexibility

How remote workstations deliver high-performance computing from any location

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In today's ever-evolving business landscape, versatility is essential. With hybrid work now commonplace, project teams need to be able to communicate and collaborate across multiple locations. At the same time they are increasingly expected to handle large – and growing – datasets and heavy software applications that require powerful graphics processing units (GPUs). This is especially true for teams operating in high-tech sectors like visual effects (VFX), architecture, engineering, and construction (AEC), healthcare, and energy.

Remote workstations provide a solution to the computing power and flexibility needs of modern teams in today's hybrid world. By leveraging powerful hardware and virtualisation technologies, remote workstations enable teams to access high-performance computing resources from anywhere, eliminating the limitations of physical proximity.

In this article, we'll look at how modern enterprises can equip their teams with the power of workstations like the Lenovo ThinkStation PX anywhere, anytime via remote desktop software.

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Equipping teams for success

Organisations in a range of industries are increasingly deploying advanced technologies like artificial intelligence (AI) and augmented/virtual reality for a variety of purposes. These cutting-edge technologies have become essential tools for enhancing operational efficiency, driving innovation, and improving customer experiences.

Some sectors are being transformed by these technologies. Healthcare organisations, for example, have begun using AI-powered diagnostics for precise image analysis. Architects and designers, meanwhile, can use building information modelling (BIM) software to create digital representations of the physical and functional characteristics of a place, thereby enabling a more collaborative and efficient approach to building projects.

It is no longer only companies at the forefront of technological development that are benefitting from these tools. Companies, large and small, in sectors ranging from financial services to transportation to manufacturing leverage AI-driven data analytics to elevate decision making.

But as companies' technological capabilities increase, so do their computing power needs. Moreover, as organisations embrace hybrid work they need to invest in computing infrastructure that can support both in-office and remote employees. Ensuring that teams have the tools they need to perform their tasks efficiently wherever they are located is crucial to productivity and talent retention. According to Qualtrics, if employees believe they have the right technology to support them at work, their engagement increases by 230 percent, and they become 85 percent more likely to remain in their jobs for over three years.[1]

1. https://hbr.org/2022/02/in-a-hybrid-world-your-tech-defines-employee-experience

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Anywhere, anytime computing

There is a limit to how much computing power can be packed into a mobile workstation. However, this doesn't mean teams working on computationally intensive tasks need to be confined to the office.

Remote workstations offer the power and flexibility that modern enterprises need. Using remote desktop software users can connect to a workstation on a separate device in another location and perform tasks, run applications, and access data on the workstation as if it were local.
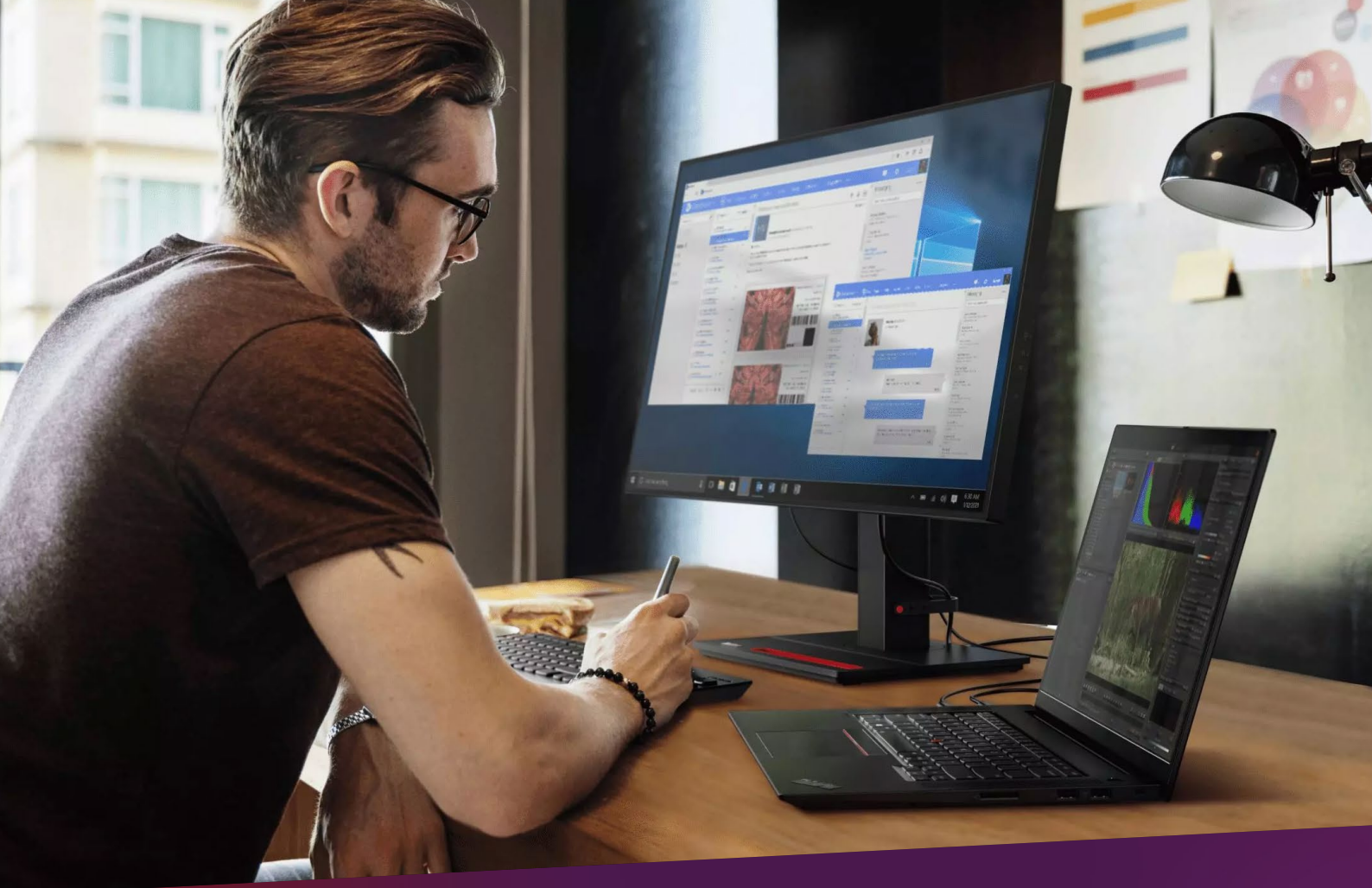
This software puts the power of high-performance workstations like Lenovo's P Series ThinkStations at employees' fingertips whether they're working in the office, at home, at a partner site, or from the field. It also allows them to collaborate with colleagues in the same building or across the globe with ease.

Moreover, organisations can access desktop visualisation capabilities at a fixed monthly cost via desktop-as-a-service (DaaS). This predictable cost structure eliminates the variability associated with traditional hardware purchases and allows organisations to scale their remote workforce up or down as needed without major capital expenditures.

DaaS also puts the burden of hardware maintenance and software updates on the service provider, reducing the need for on-site IT support and minimising downtime due to technical issues. This allows IT teams to focus on strategic initiatives rather than routine upkeep.

The combination of these factors culminates in a fast return on investment for organisations adopting remote workstations. By reducing overhead expenses related to hardware maintenance, providing a high-performance environment that enhances productivity, and benefitting from a predictable cost model, organisations can quickly recoup their investment.

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How Lenovo remote workstations meet the needs of power users

Lenovo offers remote workstation solutions designed to meet the needs of power users. Harnessing the power of professional GPUs and remote workstation software we are able to deliver a high-performing, low-latency, and scalable remote workstation experience, allowing companies to connect people, data, and resources from the data centre to the desk and beyond.

Users can access powerful ThinkStation workstations using thin and light ThinkPad mobile workstations and enjoy a local-like experience with 4K ultra-high-definition content on multiple monitors. Moreover, SSL encryption for all network traffic and no data transmission (just pixel content) means corporate data and IP always stay secure.

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Powering high-end content creation anywhere: Horizon Productions' story

Horizon Productions, a full-service production company focused on high-end content creation, uses the combined power of Lenovo's remote workstation software and Lenovo's P Series workstations for a wide range of compute-intensive applications, including video production, motion graphics, 3D design, animation, and more.

The company's employees often have to travel to different parts of the world. "Being able to make adjustments on the fly from somewhere remote and to actually be able to use the hardware and the infrastructure that we have back in the office is a huge advantage," according to Jason Cooper, Chief Digital Officer at Horizon Productions.

In addition, the company has designers working with different programs, such as Cinema 4D, Maya, and the Adobe Suite. These employees are able to connect to powerful ThinkStation hardware on their ThinkPads from any location and use the same software they have on their workstations in the office.

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Conclusion

As companies prioritise productivity, collaboration, and cost-efficiency in the era of hybrid work, remote workstations promise rapid returns by boosting engagement, streamlining operations, and ensuring data integrity.
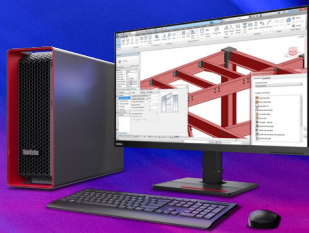
From data analysis to design simulations, Lenovo remote workstations allow you to tackle even the most demanding workloads and collaborate seamlessly and securely with colleagues from any location without compromise.

To embark on this journey towards a dynamic and secure work ecosystem, check out our website and see how Lenovo is redefining hybrid work.

ThinkStation PX

ThinkStation P7

ThinkStation P5

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