What is an AI workstation?

The one type of computer your power users are pleading for

Power users like engineers, data scientists, and designers require extra computing capacity, but equipping them is not as simple as that.

Conquer Your
Workload with Intel®
Core™ Ultra Processors

The typical laptop offers great mobility for today's workplace but can't handle the demands of many of the power users' specialized software.
And while the cloud offers loads of power, it can bring high and unpredictable costs along with potential security exposures.

That's why experienced professionals who understand the bigger picture are pleading with their IT departments for one piece of tech between a standard laptop and the massiveness of the cloud: a high-performance workstation.

What power users are pleading for:

- Flexibility for hybrid work.
- Reliable, future-proof builds.
- Hardware-enforced security.

Flexibility for hybrid work

Maximize productivity everywhere

Today, creative and technical professionals need to work from anywhere, migrate data and projects everywhere, collaborate with colleagues all over the world, and accomplish all of it without any loss in speed or power. While power users can access the cloud from multiple locations, this isn't always cost efficient, and accessing the cloud out of the office on an unsecured connection can pose a significant security risk.

The right workstation form factor

Mobile workstations are built for today's workfrom-anywhere demands. They combine thin, lightweight design with the high CPU, GPU, and NPU performance of Intel® Xeon® and Intel® Core™ Ultra processors that optimize AI applications—all while maintaining cool, optimal performance even in today's most demanding workflows.

Desktop workstations, which can be rackmounted, equip your teams to handle their most demanding projects. These workstations are available with as many as four high-end GPUs like the NVIDIA RTX™ and as many as 56 cores in a single CPU.
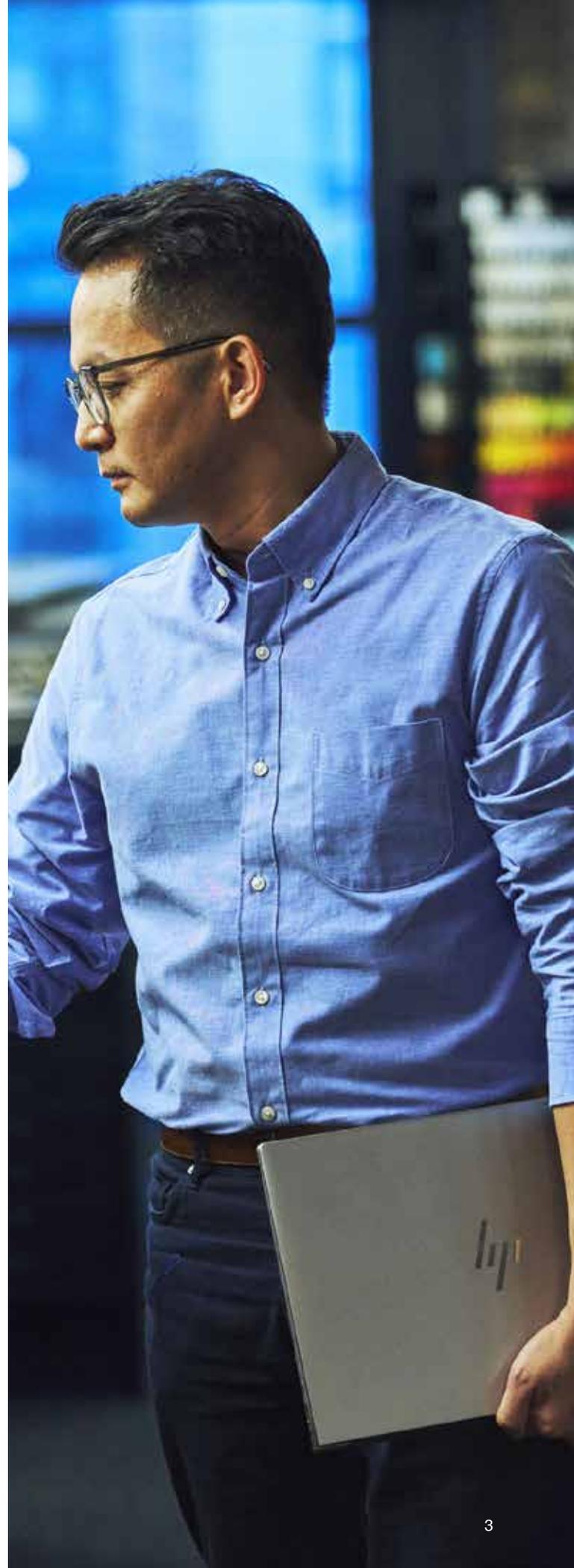
Reliable, future-proof builds

Powerful and upgradable PCs

Power users require devices engineered for long-term reliability and high performance, and devices that are rigorously tested to handle heavy workloads with ease. To future-proof tech investments, choose workstations with upgradable components, including memory, graphics, power, and storage. This ensures devices can adapt to your team's growing demands and evolving needs.

Intelligent workflows

AI-enhanced laptops enable power users to easily tackle tedious tasks—from responding to emails to summarizing meetings—and direct their attention to more meaningful work that can truly move the needle.

ISV certification

Independent software vendor (ISV) certification ensures that workstation hardware solutions deliver peak performance for software from Autodesk®, Avid®, Dessault Systèmes, Epic Games, Siemens, and more. Manufacturers of high-performance computers should work closely with ISVs from the beginning—both in the design and development of new hardware and software and in software revisions—to ensure optimized performance and a high-quality user experience.

Keep up with AI

Make sure your workstations have the necessary TOPS (trillions of operations per second), which is a measure of a processor's performance. While other AI PCs have around 40 NPU TOPS to handle productivity tasks, the cumulative parallel processor power of NPUs and high-TOPS discrete GPUs in HP Z Workstations & Solutions — ranging from 40 to 5,838—unlock true power: significantly faster training, larger model development, and conquering complex AI challenges.

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Hardware-enforced security

Localized protection

Security is a priority to everyone, but the intellectual property and confidential information handled by compute-intensive power users raise the stakes. Relative to cloud computing, workstations start with the security advantage of keeping files and data local.

Security that goes further

Some devices go even further with built-in layers of security down to the BIOS, including self-healing firmware, in-memory breach detection, and threat containment via isolation to reduce the addressable attack surface and intercept new AI and quantum computing attacks. With the right workstation, this type of added security gives you one less thing to worry about.[1]

HP Z Workstations & Solutions has the solutions for your power users

HP Z Workstations & Solutions is made to meet the uniquely high demands of power users like engineers, data scientists, and designers. Across our mobile, desktop, and rack-mounted systems, HP Z can be configured to your team's specific needs, offering the expandability, performance, and security these users and the IT teams who support them require. Cutting-edge processing power also enables HP Z to seamlessly run data-intensive AI workloads, helping to keep you and your people at the forefront of innovation.

Learn more about HP Z high-performance AI workstations

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