

Lenovo
ThinkStation

Smarter Powers Edge Computing



Lenovo

The ThinkStation P3 Ultra is a revolutionary compact form factor that is accelerating the path to autonomous computing with Intel vPro® with 13th Gen Intel® Core™ i9 processors and support for up to NVIDIA RTX™ A5500 mobile graphics.

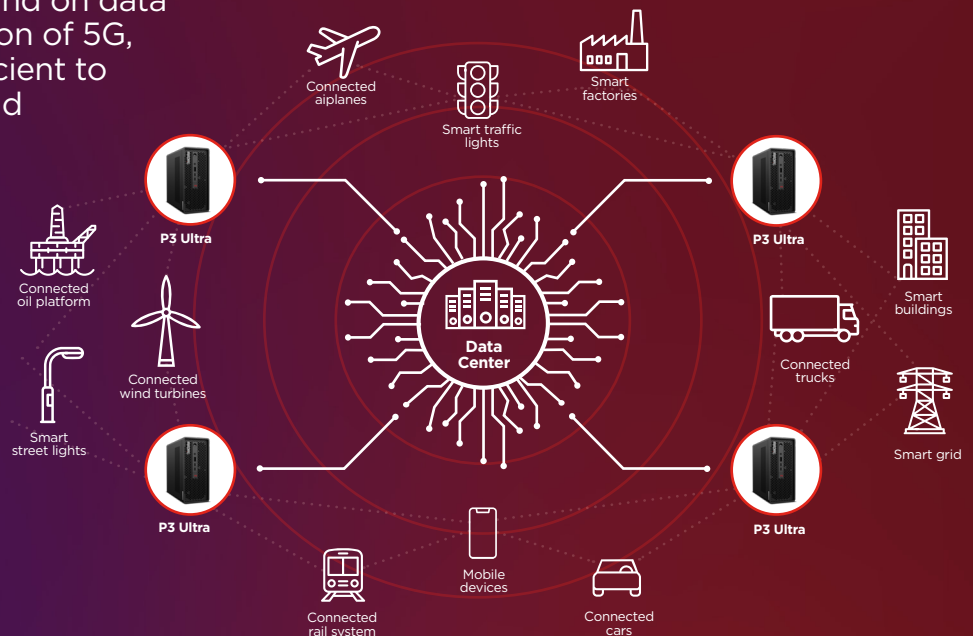
What is Edge?

Edge computing is the deployment of computing and storage resources at the location where data is produced. The data is processed locally, rather than in the cloud or data center and can be accessed either directly on the device or near the user at the edge of the network.

Why P3 Ultra for Edge?

As the volume of data we produce continues to increase, so does the demand on data storage. Even with the adoption of 5G, network bandwidth isn't sufficient to process data to/from the cloud with more powerful edge devices needed to process and inference data.

Bringing together a perfect mix of power and flexibility, the P3 Ultra allows for the acquisition, analysis, sorting and inferencing of data in real-time at the edge, meeting the demands to access and process data anytime, anywhere.





P3 Ultra Use Cases for Edge Computing

Engineered to go where other's can't, the ThinkStation P3 Ultra is the most versatile intelligent edge device, providing unmatched performance featuring Intel vPro® with 13th Gen Intel® Core™ i9 processors and NVIDIA RTX™ professional graphics to power edge use cases.

AEC & Manufacturing

From digital twins to digital fabrication, the tower-like performance in a compact MIL-SPEC tested form factor makes the P3 Ultra an ideal choice for edge use cases that require faster local compute.



Reality capture of building and infrastructure job sites and factories



Control production robots, CAM simulations & fabrication print programs onsite



Capture & process IoT sensor data locally



Run verification software more efficiently to improve quality assurance workflows



Healthcare & Life Science

The P3 Ultra is ideal for medical imaging professionals that need a higher performing CPU and GPU but in a smaller footprint that can be easily deployed in the office or at their home.



Medical imaging in Radiology, Cardiology and Pathology



Laboratory and research areas in both corporate and higher education



AI for Natural Language Processing

Data Science & AI

The P3 Ultra is Lenovo's smallest ever Data Science Workstation. Available with support for a wide variety of Linux Distributions, and CPU & GPU configurations making it perfect for demanding workstreams where traditional desktop computers just can't cope.



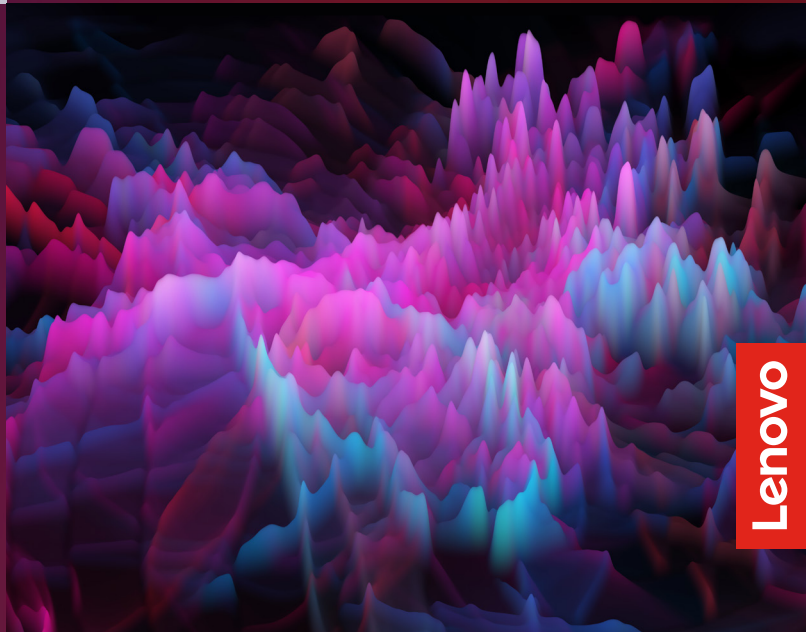
Real-Time Edge Inferencing



DevOps



Data Analytics & Business Intelligence



Lenovo



Metaverse & Immersive Computing

The P3 Ultra is our smallest ever 'VR Ready' workstation, perfect for delivering reliable, high-fidelity, low-latency AR/VR experiences via both wired and wireless head mounted displays.



Location Based Entertainment



Metaverse Deployments



NVIDIA CloudXR Environments



Digital Twins & Complex Immersive Training Workstreams

OEM

The P3 Ultra is the optimal choice for OEMs as it delivers a new combination of necessary performance in a uniquely designed chassis that significantly eliminates the bulk of a traditional small form factor and offers a fully integrated, five-year life cycle solution.



Interactive retail kiosks



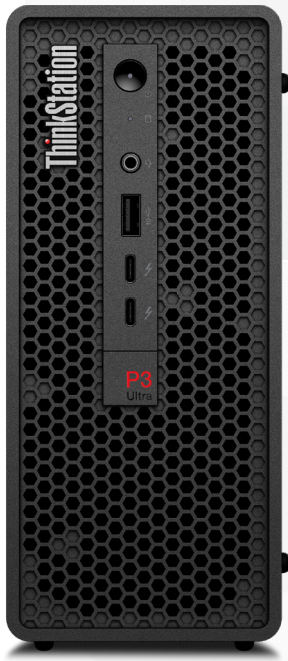
Digital signage solutions



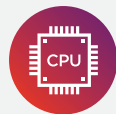
Financial Operation solutions



Data Science

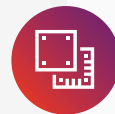


Product Highlights and Configurations



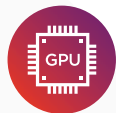
Processor up to
5.8GHz, 24 Cores

Intel vPro with 13th Gen Intel Core i3, i5, i7, i9. Up to 8 P-cores, 16 E-cores



Expanded Connectivity

Features dual onboard ethernet and dual onboard Thunderbolt™ ports



Graphics up to
NVIDIA RTX A5500 mobile

16GB GDDR6

Choice of discrete or integrated graphics.



Memory up to
128GB DDR5

5600MHz ECC or non-ECC



Storage up to
8TB M.2 PCIe Gen4

Up to two 4TB NVMe Performance SSDs

Lenovo



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