

Lenovo
ThinkStation

Smarter redefines the power of small

ThinkStation P3 Ultra

Architecture, Engineering &
Construction Solution Brief



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Meet the ThinkStation P3 Ultra Redefining the power of small for BIM

Half the size of traditional small form factor desktop workstations, the ThinkStation P3 Ultra sits in a class of its own and delivers unmatched performance by packing powerful components in an innovative, space-efficient design.

The P3 Ultra chassis is less than 4L in total volume yet still boasts up to Intel vPro® with 13th Gen Intel® Core™ i9 processors and up to NVIDIA RTX™ A5500 mobile graphics so users can experience tower-like performance.

For architects, designers and engineers who need desktop power to run demanding BIM solutions wherever work takes you, the ThinkStation P3 Ultra delivers GPU and CPU performance in a compact format unlike anything else on the market.

Pro visualization, digital fabrication, reality capture, and digital twin data sets are now larger and more complex than ever before. The versatile P3 Ultra offers architects, designers, engineers, and visualization specialists the power and configuration flexibility to support demanding BIM workflows.



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Architecture, Engineering, and Construction ThinkStation P3 Ultra configurations for AEC workflows

Architects, Designers & Engineers

Workflow: General BIM

Description: For architects, designers and engineers who need the power of a tower in an in an ultra compact form factor.

Recommended configuration for BIM workflows:

- CPU:** Intel vPro® with 13th Gen Intel® Core™ i9
- GPU:** NVIDIA T1000
- Memory:** 64GB of RAM
- SSD:** 1TB NVMe



Visualization Specialists

Workflow: Visualization, Reality Capture and Digital Fabrication

Description: For visualization specialists and engineers who require extra graphics horsepower for demanding real-time rendering, reality capture and digital fabrication workflows.

Recommended configuration for ProVis, VR, MR and AI workflows:

- CPU:** Up to Intel vPro® with 13th Gen Intel® Core™ i9
- GPU:** Up to NVIDIA RTX A5500 mobile
- Memory:** 64GB of RAM
- SSD:** 1TB NVMe



Performance Gains for ISV applications include:



ThinkStation P3 Ultra

Use Cases for AEC

Tower-like performance in a compact, MIL-SPEC tested form factor makes the P3 Ultra an ideal choice for edge use cases in the field and for hybrid remote work, powered by Intel vPro® with 13th Gen Intel® Core™ i9 processors and NVIDIA RTX A5500 mobile graphics.

Examples Include:

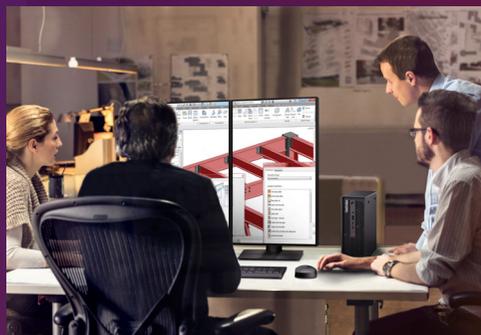


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Compute at the Edge

- Perform compute-intensive reality capture workflows on the job site or in the field
- Capture and process IoT sensor data from smart buildings and infrastructure



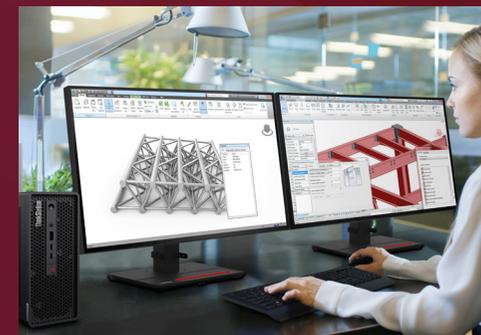
BIM in an Ultra Compact Form Factor

- From modeling to visualization and more, run complex BIM workflows on a compact workstation when space is at a premium



On the Shop Floor

- Run demanding CAM and fabrication workflows on the shop floor faster



Powerful Thick Client

- Adapt to hybrid-remote work environments with a portable space-saving design that has the power to run BIM tasks locally and allows you to connect to a data center remotely with Lenovo TGX or other VDI solutions



Desktop power in a groundbreaking compact form factor

Built for demanding BIM workflows that require flexible configurations and maximum space-savings, the ThinkStation P3 Ultra is ideal for keeping up with modern workplace changes. As organizations move to hybrid or remote work, deploy additional resources to the edge, and try to minimize their environmental impact, this workstation is a versatile, more sustainable solution for this critical time of transformation.

Super-Fast Memory

Up to 128GB DDR5 with 4 SoDIMM slots



Dual-Sided Motherboard

With active components on both sides for maximum space efficiency



Processor Performance

Up to Intel vPro® with 13th Gen Intel® Core™ i9, up to 24 cores, up to 5.8GHz



Professional Graphics

Designed with advanced cooling features to house a powerful NVIDIA professional GPU (up to NVIDIA RTX A5500 Mobile)



Legendary Reliability

Tested to 10 military grade requirements and >200 quality checks



For more information on the ThinkStation P3 Ultra, please visit: www.Lenovo.com/workstations

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ThinkStation P3 Ultra Sustainability Highlights



Certifications

ENERGY STAR®¹, TCO Certified², EPEAT® Gold registered³ in the US



Sustainable Packaging

Packaged using **90% post-consumer recycled cardboard** and **90% post-consumer recycled foam cushions**



Carbon Emissions Savings

15% lighter in weight than previous small form factors, which allows for more systems in each cargo load, resulting in fewer shipments and reduced carbon emissions

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¹ To earn the ENERGY STAR® certification, the product must meet energy efficiency criteria set by the U.S. Environmental Protection Agency or the U.S. Department of Energy.

² TCO Certified is an international third party certification for IT products which covers both social and environmental aspects during the product's life cycle.

³ EPEAT® Gold registered in the U.S. products must meet environmental performance criteria designated by the Global Electronics Council.