

**More Power  
More Performance  
More Productivity**

Lenovo™ ThinkStation® P Series and ThinkPad® P Series



**ThinkStation | ThinkPad**



## Why Lenovo

Lenovo focuses on power, performance and reliability in every machine we design; both ThinkStation and ThinkPad. By combining the absolute top-of-the-line components with groundbreaking designs, we are able to push our systems harder and have raw power necessary to handle the most demanding workloads. Absolutely key for a top performing workstation is the ability to keep it's components cool. This is where our innovative Tri-Channel cooling in our towers and FLEX Performance cooling in our notebooks comes to fruition. These revolutionary designs allow CPUs and GPUs to run at peak performance until the job is done while simultaneously keeping the components cool which makes for long lasting and reliable machine.

## Lenovo Workstation Design Philosophy

Architects, product and software designers, financial traders, medical professionals and engineers - all need high performing, easy-to-use, reliable power to get the job done. Lenovo workstations deliver the highest levels of performance, ease of use and reliability. Lenovo ThinkStation P Series are designed from the ground up for reliability and ease of use. With our ingenious modular design, making upgrades and customizations is effortless and supports a staggering number of possible configurations. The combination our ground-breaking design with the latest Intel® Xeon® CPUs and NVIDIA® Quadro® GPUs delivers to our customers the absolute best possible user experience to turn ideas in to reality.

The Lenovo ThinkStation P Series are the best designed workstations ever. The ThinkPad P Series are mobile workstations that grant freedom from the desk while keeping productivity high. Designed for unmatched usability, superior reliability and unparalleled performance. The ThinkPad P Series offers the full range of mobile workstations from the most flexible multimode workstation in the P40 Yoga to the mighty and powerful 17-inch P71. They are certified to run mission-critical ISV applications and are MIL-SPEC tested for durability to last.

**Perfect for:**

- Engineers • Financial Professionals • Game Designers • Healthcare and Life Sciences • Animators • Energy and Oil & Gas



**Powerful Intel® Xeon® Processors**

Lenovo workstations combine the latest high-performance Intel® Xeon® processors, featuring unmatched performance and multicore processing efficiency. Like all Think-branded products, our Lenovo workstation computers boast innovation and design excellence, while delivering quiet, reliable, and powerful solutions for your work environment. The Lenovo workstation's powerful Intel® Xeon® CPUs offer:

- 24/7 uninterrupted performance
- ISV certifications for maximum reliability and performance
- Intel® Dynamic Power Management, offering better performance per watt
- Intel® Turbo Boost Max Technology 3.0, delivering extra power when you need it
- Advanced Intel® Virtualization Technology



**Think Innovation**

Lenovo workstations provide an innovative answer for challenges such as thermal management, higher levels of component support and an intuitive design.

All Lenovo workstations offer unique thermal designs engineered for maximum cool air delivery to key components, reducing the risk of hardware failure. Lenovo workstations are also whisper-quiet. The new intuitive and tool-less design makes performing upgrades easier than ever.



**Performance Graphics**

Lenovo workstations deliver powerful graphics needed for professional applications—from 2D and 3D content creators, to users of CAD and EDA applications, to finance and medical professionals. Powered by NVIDIA® Quadro® and NVS graphics, each workstation is built to maximize your productivity so you can do more in less time. Professional graphics cards also offer longer life cycles and much more reliability than their consumer counterparts and come with certified and optimized drivers from leading software vendors for a truly enhanced experience.



**ISV Certified**



Every workstation is ISV (Independent Software Vendor) tested and certified to ensure maximum compatibility and performance. Certification means that should you ever require support on the specialized applications you use every day, the ISVs will be ready to help. Only a certified workstation-class product is eligible for this level of support.

# Workstation Product Comparisons



**ThinkStation P310**  
(TWR & SFF)



**ThinkStation P410**



**ThinkStation P510**



**ThinkStation P710**

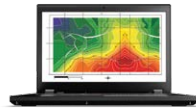


**ThinkStation P910**

	ThinkStation P310 (TWR & SFF)	ThinkStation P410	ThinkStation P510	ThinkStation P710	ThinkStation P910
<b>Purpose</b>	Entry CAD/DCC Autodesk® AutoCAD® Adobe® Photoshop® Adobe® Illustrator® Front Office: EMR/EHR	Engineering Design Automation Mid-range CAD / Entry DCC SolidWorks® Autodesk® Inventor® Medical Imaging: Radiology/Cardiology PACS PTC® Creo™	Electronic Design Automation Mid-range CAD / DCC SolidWorks® Autodesk® Inventor™ Medical Imaging: Radiology/Cardiology PACS PTC® Creo™	Financial Trading Floors High-end CAD/CAM/CAE 3D DCC Dassault Systemes Catia® Siemens NX™ Monte Carlo Analysis Black Scholes Modeling	Oil & Gas Exploration High-end CAD/CAM/CAE Autodesk® Maya® Landmark GeoProbe® Schlumberger Petrel®, Paradigm™, ANSYS®
<b>CPU</b>	Up to 1x Intel® Xeon® E3-1200 v5 6th Generation Intel® Core™ i3, i5, i7	Up to 1x Intel® Xeon® E5-1600 v4 Processor	Up to 1x Intel® Xeon® E5-1600 v4 Processor	Up to 2x Intel® Xeon® E5-2600 v4 Processor	Up to 2x Intel® Xeon® E5-2600 v4 Processor
<b>Chipset</b>	C236	C612	C612	C612	C612
<b>Memory Support</b>	Up to 64 GB DDR4, 4 DIMM Slots ECC memory supported	Up to 128 GB DDR4, 4 DIMM Slots ECC memory supported	Up to 256 GB DDR4, 8 DIMM Slots ECC memory supported	Up to 384 GB DDR4, 12 DIMM Slots ECC memory supported	Up to 1 TB DDR4, 16 DIMM Slots ECC memory supported
<b>Optical Types Supported</b>	DVD-ROM DVD-RW Blu-ray Disc™ Burner	DVD-ROM DVD-RW Blu-ray Disc™ Burner	DVD-ROM DVD-RW Blu-ray Disc™ Burner	DVD-ROM DVD-RW Blu-ray Disc™ Burner	DVD-ROM DVD-RW Blu-ray Disc™ Burner
<b>Maximum Storage Drives</b>	4 (TWR)/3 (SFF)	4	11	12	14
<b>Max Storage</b>	SFF: Max M.2 = 2 (2 TB) <sup>1</sup> TWR: Max M.2 = 2 (2 TB) <sup>1</sup> Max 3.5" = 2 (12 TB) <sup>1</sup> Max 3.5" = 4 (24 TB) <sup>1</sup> Max 2.5" = 3 (2 TB) <sup>1</sup> Max 2.5" = 4 (4 TB) <sup>1</sup>	Max M.2 = 1 (1 TB) <sup>1</sup> Max 3.5" = 4 (32 TB) <sup>3</sup> Max 2.5" = 4 (4 TB) <sup>1</sup>	Max M.2 = 4 (4 TB) <sup>1</sup> Max 3.5" = 6 (48 TB) <sup>1</sup> Max 2.5" = 10 (10 TB) <sup>1</sup>	Max M.2 = 6 (6 TB) <sup>1</sup> Max 3.5" = 6 (48 TB) <sup>1</sup> Max 2.5" = 10 (10 TB) <sup>1</sup>	Max M.2 = 1 (1 TB) <sup>1</sup> Max 3.5" = 6 (10 TB) <sup>1</sup> Max 2.5" = 10 (4 TB) <sup>1</sup>
<b>Power Supply</b>	400W 92% Efficient - Tower only 250W 85% Efficient - Tower only 210W 85% Efficient	450W 92% Efficient	490W 90% Efficient 650W 92% Efficient	490W 90% Efficient 650W 92% Efficient 850W 92% Efficient	1300W 92% Efficient 170W or 230W
<b>Supported Graphics Cards</b>	Intel® Integrated HD NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810* NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 NVIDIA® Quadro® K1200 NVIDIA® Quadro® M2000* NVIDIA® Quadro® M4000* *Tower only	NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810 NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 NVIDIA® Quadro® K1200 NVIDIA® Quadro® M2000 NVIDIA® Quadro® M4000 NVIDIA® Quadro® M5000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® P6000 NVIDIA® Quadro® P5000 NVIDIA® Tesla® K40	NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810 NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 NVIDIA® Quadro® K1200 NVIDIA® Quadro® M2000 NVIDIA® Quadro® M4000 NVIDIA® Quadro® M5000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® M6000 NVIDIA® Quadro® P6000 NVIDIA® Tesla® K40c NVIDIA® Tesla® M60	NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810 NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 NVIDIA® Quadro® K1200 NVIDIA® Quadro® M2000 NVIDIA® Quadro® M4000 NVIDIA® Quadro® M5000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® M6000 NVIDIA® Quadro® P6000 NVIDIA® Tesla® K40c NVIDIA® Tesla® M60	NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810 NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 NVIDIA® Quadro® K1200 NVIDIA® Quadro® K2200 NVIDIA® Quadro® M4000 NVIDIA® Quadro® M5000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® M6000 NVIDIA® Quadro® P6000 NVIDIA® Tesla® K40c NVIDIA® Tesla® M60 Intel® Xeon Phi™

<sup>1</sup> Any combination of storage to equal Maximum Storage Drives.  
<sup>3</sup> Special Bid Only.

# Workstation Product Comparisons



ThinkPad P71



ThinkPad P51



ThinkPad P51s



ThinkPad P40 Yoga

<b>Purpose</b>	Oil & Gas Exploration High-end CAD/CAM/DCC Adobe® Autodesk® Dassault Systemes Halliburton Paradigm Schlumberger	Mid-range CAD / DCC Adobe® Autodesk® Dassault Systemes PTC® Siemens	SolidWorks® Autodesk® AutoCAD® Autodesk® Revit®	SolidWorks® Autodesk® AutoCAD® Autodesk® Revit® Autodesk® Sketchbook Pro®
<b>CPU Support</b>	Intel® Xeon® E3-1500M v6 7th Generation Intel® Core™ i7	Intel® Xeon® E3-1500M v6 7th Generation Intel® Core™ i7	7th Generation Intel® Core™ i7 Dual-Core	6th Generation Intel® Core™ i7 Dual-Core
<b>Chipset</b>	CM238	CM238	Integrated on SoC	Integrated on SoC
<b>Memory Support</b>	4 SODIMM, 64GB Max, 2400MHz	4 SODIMM, 64GB Max, 2400MHz	2 SODIMM Slot, 32 GB Max. 2133MHz	1 SODIMM Slot, 16 GB Max.DDR3L
<b>Optical Types Supported</b>	DVD-RW	No ODD	No ODD	No ODD
<b>Total Storage</b>	Max 4 drives Max HDD = 1TB (2TB) Max PCIe SSD = 1 TB (2TB)	Max 3 drives Max HDD = 1TB (1TB) Max PCIe SSD = 1TB (2TB)	Max 1 drive Max HDD = 1TB Max PCIe SSD = 1TB	Max 1 drive Max SSD = 512GB
<b>Battery (WHr)</b>	8 Cell (96 WHr)	4 Cell (66WHr) or 6 Cell(90WHr)	4 Cell (32 WHr) Front + Up to 6 Cell (72 WHr) Rear	3 Cell (53 WHr)
<b>Supported Graphics Cards</b>	NVIDIA® Quadro® M620 NVIDIA® Quadro® P3000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000	NVIDIA® Quadro® M1200 NVIDIA® Quadro® M2200	NVIDIA® Quadro® M520	NVIDIA® Quadro® M500M
<b>Display</b>	17" FHD (1920 x 1080) IPS, 300 nits 4K UHD (3840 x 2160) IPS, 300 nits	15.6" FHD (1920 x 1080) IPS, 250 nits FHD Touch (1920 x 1080) IPS, 220 nits 4K UHD (3840 x 2160) IPS, 300 nits	15.6" FHD (1920 x 1080) IPS, 250 nits FHD Touch (1920 x 1080) IPS, 250 nits 4K UHD (3840 x 2160) IPS, 300 nits	14.1" FHD Touch (1920 x 1080) IPS, 250 nits WQHD Touch (2560 x 1440) IPS, 300 nits
<b>Weight</b>	Starting at 7.6 lbs (3.4 kg)	Starting at 5.6 lbs (2.5 kg)	Starting at 4.3 lbs (1.95 kg)	Starting at 3.9 lbs (1.8 kg)

<sup>1</sup>Any combination of storage to equal Maximum Storage Drives.