Push the limits of productivity, creativity and innovation.

Lenovo™ ThinkStation® P Series and ThinkPad® P Series

Lenovo™

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.
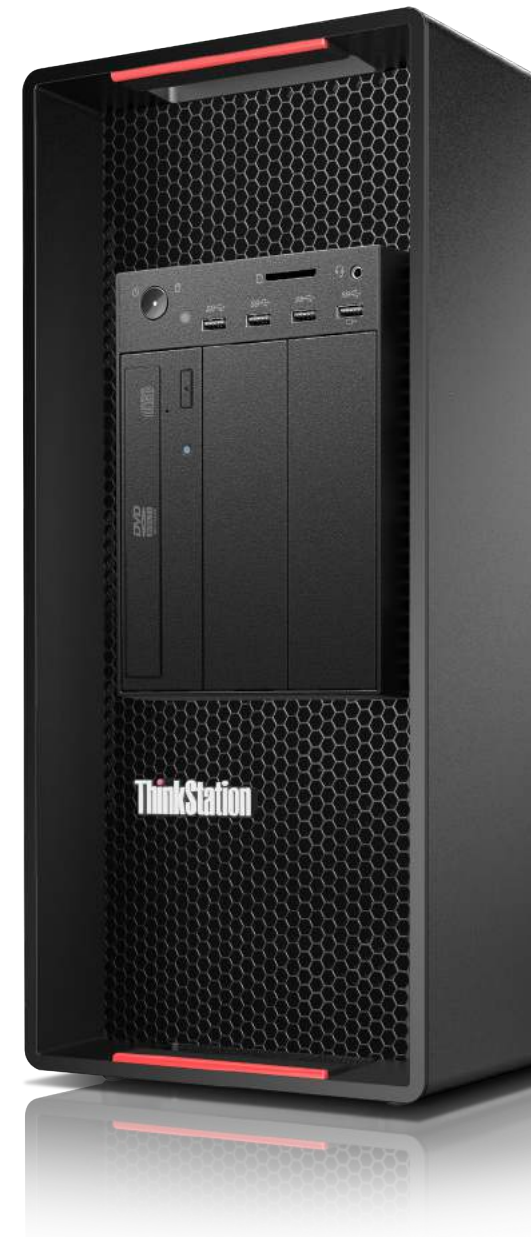
Design Philosophy

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 of 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.

Key Features

• Latest generation of multicore Intel® Xeon® processors
• Highest memory performance
• Powerful graphics from NVIDIA®
• Multichannel cooling
• 100% of platforms 80 PLUS® Gold
• Up to 92% efficient power supply
• Up to 65% recycled materials
• Brand new modularized design

ISV Certifications

Autodesk   Adobe   ƷS CATIA   ƷS SOLIDWORKS   PTC®

ThinkStation P920

Get more done faster with the ThinkStation P920.

Outfitted with the latest generation multicore Intel® Xeon® processors and supporting graphics technology from NVIDIA®, the P920 tackles the biggest CAD, CAM, Media and Entertainment, Life Science R&D, and Energy/Oil & Gas challenges with ease.

Customize a ThinkStation® P920 for the performance you need, including the most I/O supporting up to 3x NVIDIA® Quadro® GP100 GPUs. Superior design features on this top-of-the-line workhorse include Flex Trays that hold up to two drives per bay for total versatility and patented Tri-Channel Cooling for enhanced reliability. Thanks to our unique thermal management that keeps things cool on the inside and quiet on the outside.

Ideal for the highest-performance workflows including rendering, simulation, visualization, deep learning and artificial intelligence across industries.

Supports up to 14 storage devices

Key Features

Dual Intel® Xeon® Platinum, Gold, Silver and Bronze (up to 28 cores, up to 3.6GHz per CPU)

Supports up to 3x NVIDIA Quadro® GP100 or P6000 graphics card

Utilize smartphone app for system diagnostic information

1400W power supply (92% efficiency)

FLEX Module, FLEX Drive and Blind Connect HDDs

Most storage capacity in the industry

Recommended Monitor

The ThinkVision® P27u 27″ professional monitor (4k) (61B0GAR1-XX) has professional-grade color accuracy and fast response times, with the convenience of USB Type-C connections.

ThinkStation P720

Feature-Rich-Dual-Processor Workstation

Swappable PSU allows you to only pay for the performance you need.

The P720 has more processing, graphics and memory power for CAD and Digital Content professionals.

Power up a versatile next-generation workstation primed for mission-critical tasks. Customize a ThinkStation® P720 for the performance you need with the fastest memory and up to 12 drives using Flex Trays that hold up to two drives per bay.

Ideal for the most demanding workflows in engineering & architecture, media & entertainment, finance, and medical industries.

Key Features

Dual Intel® Xeon® Platinum, Gold, Silver and Bronze (up to 28 cores, up to 3.6GHz per CPU)

Supports up to 2x NVIDIA Quadro® GP100 or P6000 graphics card

The most memory and storage capacity in its class

690W and 900W power supply (Up to 92% efficiency)

FLEX Module, FLEX Connector and optional Blind Connect HDDs

Utilize smartphone app for system diagnostic information

FLEX Features allow for truly unique configurations and more ports in the front of the system

Recommended Monitor

The ThinkVision® P27u 27" professional monitor (4k) (61B0GAR1-XX) has professional-grade color accuracy and fast response times, with the convenience of USB Type-C connections.

Up to 65% recycled plastics

Wide variety of storage options

ThinkStation P510

**Usability. Reliability. Performance.
Versatile Workstation Configured Your Way.**

A next-generation mainstream workstation that's powerful enough for any job and reliable enough for mission-critical environments. Customize a ThinkStation® P510 for the power, performance and usability you need, including twice the storage and four-times the memory capacity.1 Superior design features include Flex Trays that hold up to two drives for total flexibility and patented Tri-Channel Cooling for enhanced reliability.

The P510 when paired with the NVIDIA® Quadro® P6000 is the ideal solution for medical imaging and research. FLEX Module, FLEX Connector, modular design and Blind Connect HDDs give you best-in-class user experience. And Lenovo ThinkStation workstations are fully certified and tested to optimize performance for the top ISV applications.

Key Features

Single Intel® Xeon® E5-1600 v4 family of processor

Supports up to NVIDIA GP100 card or Quadro P6000 graphics card

490W and 650W power supply (Up to 92% efficiency)

FLEX Module, FLEX Connector and optional Blind Connect HDDs

Recommended Monitor

The ThinkVision® P27u 27″ professional monitor (4k) (61B0GAR1-XX) has professional-grade color accuracy and fast response times, with the convenience of USB Type-C connections..

Up to 92% efficient power supply

ThinkStation P410

Mainstream Workstation on a Budget

Closing the gap in price and performance between entry-level and mainstream workstations.

The ThinkStation® P410 offers a higher core count and memory capacity than any entry-level workstation in the market. Offering the latest high-performance Intel® Xeon® processors with Turbo Max 3.0, NVIDIA® Quadro® professional graphics, cutting-edge storage technologies, including M.2, and innovative Flex module support for easy customization.

ThinkStation P410 workstations doesn't just stop at hardware innovation, but offers the Lenovo Performance Tuner to fine-tune the user experience; including resource affinity and software-specific profiles.

Key Features

Single Intel® Xeon® E5-1600 v4 family of processor

Supports up to NVIDIA® Quadro® P6000 card

450W power supply (Up to 92% efficiency)

FLEX Module, Slim ODD and Media Card Reader

Wide variety of storage options

Recommended Monitor

The ThinkVision® P27q professional monitor is the right choice for those who need an uncompromised display experience to increase productivity and ease of use.

Up to 92% efficient power supply

ThinkStation P320 delivers workstation performance at a desktop price in a compact package

Recommended Monitor

ThinkVision P27q professional monitor (WQHD) (61A8GAT1U1) is the right choice for those who need a full-function display to provide vivid, accurate images from a wide viewing angle.

ThinkStation P320

**Looking for value without sacrificing performance? This is the place.**

Mission-critical tasks require superior reliability and powerful performance. ThinkStation® P320 leads on both counts and does it with exceptional all-around value. The refreshed workstation comes equipped with high-performance Intel® Core® i and Xeon® processors, NVIDIA® Quadro® professional graphics, with VR Ready capability, cutting-edge storage technologies, including M.2, and innovative Flex module support for easy customization.

Delivering superior reliability for users working on 2D and entry-level 3D workflows, the ThinkStation® P320 also offers a breakthrough, entry-level way to create and consume VR. The P320 brings a faster, more powerful system that supports features – including ISV certifications, the fastest storage available on an entry-level workstation and up to 64GB DDR4 memory.

Key Features

Up to 1x latest Intel® Xeon® E3-1200 v6 or 7th Generation Intel® Core™ i7
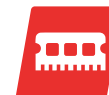
Supports up to 64GB DDR4 memory and M.2 SSD storage options

Supports up to NVIDIA® Quadro® P4000 on Tower and 2X Quadro® P1000 on SFF

Up to 92% power efficiency

Small Form Factor available to save space

FLEX Module enabled

ThinkStation P320 Tiny

**Introducing the World's Smallest Workstation.
Small size – Big performance**

The ThinkStation® P320 Tiny is the world's smallest workstation. Its simple, efficient design allows easy access for memory and storage upgrades packing big performance in a tiny 1L chassis.

ThinkStation® P320 Tiny supports NVIDIA® Quadro® P600 graphics which combines a 384 CUDA core Pascal GPU, large on-board memory and advanced display technologies to deliver amazing performance for a range of professional workflows. Other features include support for up to 6 independent displays, 32GB DDR4 2400MHz memory and dual 1TB M.2 NVMe SSDs.

World's smallest workstation – Tiny 1L chassis

Key Features

7th Generation Intel® Core™ i7
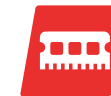
Supports up to 32GB DDR4 2400MHz memory

NVIDIA® Quadro® P600

Full ecosystem of Tiny accessories including Tiny-in-One

Options

Flexibility and Differentiation
Supports ecosystem of Tiny options and brackets including VESA, sandwich, and under desk mounts; I/O expansion and optical drive; Tiny-in-One.

ISV Certified
The ThinkStation P320 Tiny is an ISV certified professional workstation with latest 7th generation Intel® Core CPUs and NVIDIA® Quadro® graphics.

Up to 64GB DDR4 ECC memory
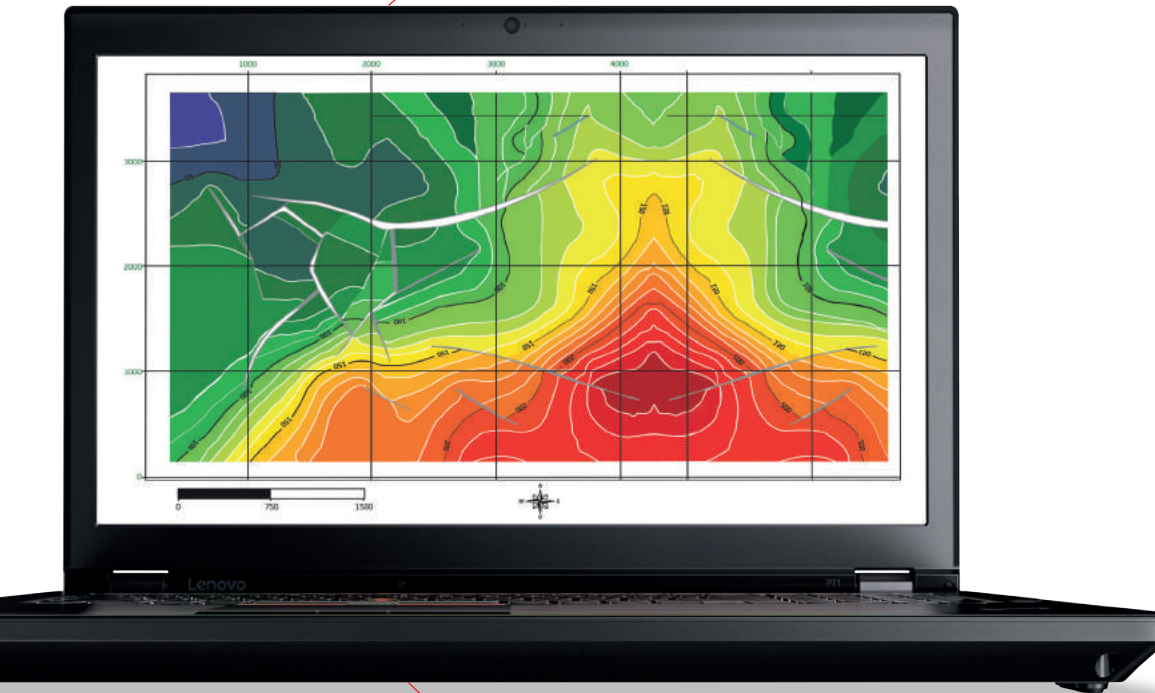
Up to 4 storage devices

ThinkPad P71

Lenovo's most powerful mobile workstation ever.

Designed for high-end professionals in industries ranging from Oil & Gas to Media & Entertainment, the Lenovo ThinkPad P71 brings new levels of power and performance to the ThinkPad family; certified for the top ISV applications across industries. Powered by the latest Intel® Xeon® Quad-Core processors for mobile workstations and NVIDIA® Quadro® GPUs for unmatched speed and performance.

The ThinkPad P71 features the FLEX Performance Cooling system for cooler, quieter and faster performance; allowing for both optimal uptime as dictated by the needs of the application and fault redundancy.

The ThinkPad P71 comes loaded with up to 64GB of DDR4 memory and the ability to handle up to four storage devices. Additionally, the ThinkPad P71 comes with two Intel® Thunderbolt™ 3 ports for ultra-fast connectivity and a 4K UHD display or optional FHD with X-Rite® Pantone® color calibration for absolute accurate colors.

Key Features

Intel® Xeon® E3-1500M v6 family of processors

Supports up to NVIDIA® Quadro P5000 graphics

Up to 64GB DDR4 memory and PCIe M.2 storage up to 2TB

Intel® Thunderbolt™ 3 with transfers of 40 Gbps

UHD
4K UHD IPS Display

X-Rite® Pantone® Integrated Color Calibrator

4K IPS display
with 100% color gamut

ThinkPad P51

Lenovo's next level performance mobile workstation.

The Lenovo ThinkPad P51 is a feature-rich, high-performing mobile workstation for users who need a blend of power and mobility. Lenovo's thinnest, lightest full-function mobile workstation design yet; the ThinkPad P51 is MIL-SPEC tested for maximum durability, features a beautiful 15.6" 4K UHD display and is certified to run users' most requested ISV applications. The ThinkPad P51 includes DDR4 ECC memory for the fastest possible data access and up to 2 TB storage utilizing the latest PCIe technology for speeds up to five times faster than current SATA technology.

Powered by the latest mobile Intel® Xeon® Quad-Core processors for mobile workstations and NVIDIA® Quadro® GPUs for unmatched graphics capability. The ThinkPad P51 features the FLEX Performance Cooling system for cooler, quieter and faster performance; allowing for both optimal uptime as dictated by the needs of the application and fault redundancy.

Key Features

Intel® Xeon® E3-1500M v6 family of processors

Supports up to NVIDIA® Quadro® M2200 graphics

Up to 64GB DDR4 memory and PCIe M.2 storage up to 2TB

Intel® Thunderbolt™ 3 with transfers of 40 Gbps

UHD
4K UHD FHD Touchscreen IPS Display

X-Rite® Pantone® Integrated Color Calibrator

Intel® Thunderbolt™ 3

Extreme battery life

ISV-certified to run today's most demanding applications

ThinkPad P51s

ThinkPad P51s: Lenovo's highest performing Ultrabook™ ever.

Engineered to deliver breakthrough levels of performance, reliability and battery life, the ThinkPad P51s features a new, clean sheet chassis design that is guaranteed to meet customer demands for a powerful but portable machine.

The ThinkPad P51s starts at 4.3 lbs and only 20 mm thin making it the lightest and thinnest mobile workstation ever developed by Lenovo. We've packed in a 4K UHD IPS display with optional IR camera, Intel®'s latest Core™ i7 processor, up to 32GB of RAM and NVIDIA®'s Quadro® M520 GPU with 2GB of dedicated VRAM to offer demanding end users the performance they require. Power Bridge technology allow users to hot-swap batteries on this ISV-certified mobile workstation and the extreme battery life keeps productivity up and down time to a minimum. All this along with the industry's best keyboard and legendary ThinkPad build quality results in Lenovo bringing you the ultimate performance Ultrabook™, the P51s.

Key Features

7th Generation Intel® Core™ i7 processor

NVIDIA® Quadro® M520 graphics

Intel® Thunderbolt™ 3 with transfers of 40 Gbps

4K UHD IPS Display, optional FHD Touchscreen

Up to 32GB of DDR4 memory and 1TB of PCIe NVMe storage

Extreme battery life Up to 10 cell 104 WHr

ThinkPad P40 Yoga

ThinkPad P40 Yoga: Powering the creative mind

The ThinkPad P40 Yoga is the world's first multimode mobile workstation offering professionals an array of features that push the limits of what had previously been possible. Using the latest Intel® Core™ processors and NVIDIA® Quadro® graphics and ISV certifications, creative professionals and engineers alike will have all the power they need.

The system provides the utmost in sketching precision through a highly responsive pen and touchscreen powered by the Wacom® Active ES technology, offering a full, 2,048 levels of pressure sensitivity on a high-res (2560 x 1440) IPS display. Lenovo's thinnest and lightest full-function mobile workstation; the ThinkPad P40 Yoga is MIL-SPEC tested for maximum durability.

Tablet Mode   Laptop Mode   Stand Mode   Tent Mode

Key Features

6th Generation Intel® Core™ i7 processors

Supports up to NVIDIA® Quadro® graphics cards

MIL-SPEC test assures legendary reliability, maximum durability and endurance

Multimode with a hinge gives 360º of flexibility

Protects the keys with unique patented Lift 'n Lock keyboard

Up to 16GB of DDR3L memory and 512GB of SSD storage

Workstation Product Comparisons

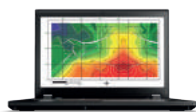|	ThinkStation P320 Tiny	ThinkStation P320 (TWR & SFF)	ThinkStation P410	ThinkStation P510	ThinkStation P720	ThinkStation P920
Purpose	STEM Education Architecture Product Design Finance Control Room Video Surveillance Healthcare Factory Automation	Entry CAD/DCC Autodesk® AutoCAD® Autodesk® Revit® Adobe® Photoshop® Adobe® Illustrator® SOLIDWORKS® Medical EMR/HER	Engineering Design Automation SOLIDWORKS® Dassault Systèmes CATIA® Autodesk® Inventor™ Autodesk® Revit® Medical Imaging: Radiology/Cardiology PACS PTC® Creo™	Electronic Design Automation SOLIDWORKS® Dassault Systèmes CATIA® Autodesk® Inventor™ Autodesk® Revit® Medical Imaging: Radiology/Cardiology PACS PTC® Creo™	Financial Trading Floors Dassault Systèmes CATIA® Siemens NX™ ANSYS® Monte Carlo Analysis Black Scholes Modeling	Oil & Gas Exploration High-end CAD/CAM/CAE Autodesk® Maya® Landmark GeoProbe® Schlumberger Petrel® Paradigm™ ANSYS®
CPU	7th Generation Intel® Core™ i3, i5, i7	Up to 1x Intel® Xeon® E3-1200 v6 7th Generation Intel® Core™ i3, i5, i7	Up to 1x Intel® Xeon® E5-1600 v4 Processor	Up to 1x Intel® Xeon® E5-1600 v4 Processor	Dual Intel® Xeon® Platinum, Gold, Silver and Bronze (up to 28 cores, up to 3.6GHz per CPU)	Dual Intel® Xeon® Platinum, Gold, Silver and Bronze (up to 28 cores, up to 3.6GHz per CPU)
Chipset	Intel® Q270	Intel® C236	Intel® C612	Intel® C612	Intel® C621	Intel® C621
Memory Support	Up to 32GB DDR4 2400MHz SoDIMM Memory	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 RDIMM 2666MHz DDR4, 12 DIMM Slots	Up to 2 TB DDR4, 2666MHz, 16 DIMM Slots (Supports RDIMM)
Optical Types Supported	DVD-ROM DVD-RW	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
Maximum Storage Drives	2	4 (TWR)/3 (SFF)	4	11	12	12
Max Storage[2]	Dual M.2 NVMe SSD (1TB)	SFF / TWR Max M.2 = 2 (2 TB)[1] / Max M.2 = 2 (2 TB)[1] Max 3.5" = 2 (8 TB)[1] / Max 3.5" = 4 (16 TB)[1] Max 2.5" = 3 (6 TB)[1] / Max 2.5" = 4 (8 TB)[1]	Max M.2 = 1 (1 TB)[1] Max 3.5" = 4 (32 TB)[3] Max 2.5" = 4 (4 TB)[1]	Max M.2 = 1 (1 TB)[1] Max 3.5" = 6 (48 TB)[1] Max 2.5" = 10 (10T B)[1]	Max M.2 = 2 (2 TB)[1] Max 3.5" = 6 (60 TB)[1] Max 2.5" = 10 (20 TB)[1]	Max M.2 = 2 (2 TB)[1] Max 3.5" = 6 (60 TB)[1] Max 2.5" = 10 (20 TB)[1]
Power Supply	135W (external)	210W 85% / 92% Efficient 250W 85% Efficient - Tower only 400W 92% Efficient - Tower only	450W 92% Efficient	490W 90% Efficient 650W 92% Efficient	690W 92% Efficient 900W 92% Efficient	1400W 92% Efficient
Graphics Cards (Support for select previous generation NVIDIA® Quadro® GPUs available)	Intel® Integrated HD NVIDIA® Quadro® P600	Intel® Integrated HD NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810* NVIDIA® Quadro® P400 NVIDIA® Quadro® P600 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000* NVIDIA® Quadro® P4000* *Tower only	NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810 NVIDIA® Quadro® P400 NVIDIA® Quadro® P600 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000	NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810 NVIDIA® Quadro® P400 NVIDIA® Quadro® P600 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® P6000 NVIDIA® Quadro® GP100 NVIDIA® Tesla® M60	NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810 NVIDIA® Quadro® P400 NVIDIA® Quadro® P600 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® P6000 NVIDIA® Quadro® GP100 NVIDIA® Tesla® M60	NVIDIA® Quadro® NVS 310 NVIDIA® Quadro® NVS 315 NVIDIA® Quadro® NVS 510 NVIDIA® Quadro® NVS 810 NVIDIA® Quadro® P400 NVIDIA® Quadro® P600 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® P6000 NVIDIA® Quadro® GP100 NVIDIA® Tesla® M60

Find out how Lenovo Workstations can help you do more. Contact your authorized Lenovo reseller or visit www.lenovo.com/workstation

[1] Any combination of storage to equal Maximum Storage Drives.
[2] Additional M.2 or Add-In-Card PCIe SSD drives can be installed via rear PCIe adapters
[3] Special Bid Only.

Workstation Product Comparisons

	ThinkPad P71	ThinkPad P51	ThinkPad P51s	ThinkPad P40 Yoga
Purpose	Oil & Gas Exploration High-end CAD/CAM/DCC Adobe® Autodesk® 3dsMax Dassault Systèmes CATIA® Siemens® NX Halliburton™ Paradigm™ Schlumberger™	Mid-range CAD / DCC Adobe® Autodesk® Revit, Inventor Dassault Systèmes CATIA® PTC® Creo® Siemens NX SOLIDWORKS®	SOLIDWORKS® Autodesk® AutoCAD® Autodesk® Revit® Autodesk® Civil 3D	SOLIDWORKS® Autodesk® AutoCAD® Autodesk® Revit® Autodesk® Sketchbook Pro®
CPU Support	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
Chipset	CM238	CM238	Integrated on SoC	Integrated on SoC
Memory Support	4 SODIMM, 64GB Max, 2400MHz	4 SODIMM, 64GB Max, 2400MHz	2 SODIMM Slot, 32 GB Max. 2133MHz	1 SODIMM Slot, 16 GB Max.DDR3L
Optical Types Supported	DVD-RW	No ODD	No ODD	No ODD
Total Storage	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
Battery (WHr)	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)
Supported Graphics Cards	NVIDIA® Quadro® M620 NVIDIA® Quadro® P3000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000	NVIDIA® Quadro® M1200 NVIDIA® Quadro® M2200	NVIDIA® Quadro® M520	NVIDIA® Quadro® M500M
Display	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
Weight	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)

[1]Any combination of storage to equal Maximum Storage Drives.

Find out how Lenovo Workstations can help you do more. Contact your authorized Lenovo reseller or visit www.lenovo.com/workstation

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