Push the limits of productivity, creativity and innovation.

Lenovo™ ThinkStation® P Series and ThinkPad® P Series
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 the raw power beneath to support the most demanding ISV applications. For example, our new FLEX Performance Cooling design within the ThinkPad P Series deploys a brand new dual-fan system for cooler, quieter and faster performance. This revolutionary design allows for both optimal uptime, as dictated by the needs of the application, and fault redundancy – giving the user the ability to push the system harder and for longer periods of time.
ThinkStation Design Philosophy

Architects, product and software designers, financial traders, medical professionals and engineers – all need high performing, easy-to-use, reliable power to get them where they want to go.

Lenovo Workstations can take them there.

Lenovo Workstations deliver the highest levels of performance, ease of use and reliability. The ThinkStation P Series is completely redesigned. The modular internal design makes upgrades and customization easy, as well as supports an unprecedented array of features. With support for up to 14 storage devices, FLEX (Fully Loaded Experience) features allowing for truly unique configurations, and the latest Intel® Xeon® processors and NVIDIA® Quadro® professional graphics cards, the P Series is the perfect tool to turn ideas into reality.

Key Features

• Latest generation of multicore Intel® Xeon® processors
• 2133 MHz 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  DS  CATIA  DS  SolidWorks  PTC
The NVIDIA® Quadro® M6000 is the most powerful pro graphics card; designed to conquer challenging workloads and complex and resource intensive tasks.

The ThinkVision® P27 27" professional monitor (4k) (60E3-GAR1US) is the right choice for those who need an ultimate display to increase productivity and ease of use.

**Options**

**NVIDIA® Quadro® M6000 GPU**

The NVIDIA® Quadro® M6000 is the most powerful pro graphics card; designed to conquer challenging workloads and complex and resource intensive tasks.

**The ThinkVision® P27 27" professional monitor (4k) (60E3-GAR1US)** is the right choice for those who need an ultimate display to increase productivity and ease of use.

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**ThinkStation P910**

**Get more done faster with the ThinkStation P910.**

Outfitted with the latest generation multicore Intel® Xeon® processors and supporting graphics technology from NVIDIA® (including Maximus with Quadro® and Tesla® cards), the P910 tackles the biggest CAD, CAM, Media and Entertainment, Life Science R&D, and Energy/Oil & Gas challenges with ease.

Thanks to our unique cooling system that keeps things cool on the inside and quiet on the outside, this workstation is a plus for those who looking for a calm environment.

With a higher storage capacity and memory capacity with lightning-fast 2133 MHz DIMMs, the P910 stores and processes data faster. FLEX (Fully Loaded Experience) features allow for an unprecedented level of system customization. It is now easier than ever to configure your system to match your specific needs. Plus, USB 3.0 support and an integrated MCR extends data transfer capability. The P910’s reliable performance, exceptional expandability, uncompromised graphics support and configuration flexibility allows more work to cycle through every day.

**Key Features**

- **1300W power supply (92% efficiency)**
- **Up to two Intel® Xeon® E5-2600 v4 family of processors**
- **Supports up to three NVIDIA® Quadro® M6000 cards with 24GB of memory**
- **Plug your Android™ based device into the USB port for system diagnostics**
- **FLEX Module, FLEX Drive and Blind Connect HDDs**
- **Most storage capacity in the industry**
Options

NVIDIA® Quadro® M4000
Excellent performance and flexibility to tackle the most demanding visualization workloads; with 8GB of memory and advanced capabilities for up to four 4K displays.

The ThinkVision® P27 27" professional monitor (4k) (60E3-GAR1US) is the right choice for those who need an ultimate display to increase productivity and ease of use.

ThinkStation P710
FLEX Features and an swappable PSU allow you to only pay for the performance you need, creating a system as unique as your work.

Swappable PSU allows you to only pay for the performance you need.
The P710 has more processing, graphics and memory power for CAD and Digital Content professionals. This powerhouse also features tri-channel cooling, keeping its components running at low temperatures to boost reliability. Plus, it can support high-end NVIDIA® Maximus configurations, pairing Quadro® and Tesla® cards for performance-demanding video creation/editing and 3D rendering applications.

Ideal for professionals working on heavy data-processing, such as simulation or rendering, who need high-speed and parallel-processing capability.

Key Features

- Up to two Intel® Xeon® E5-2600 v4 family of processors
- NVIDIA® Quadro® graphics cards
- The most memory and storage capacity in its class
- 490W, 650W and 850W power supply (Up to 90% efficiency)
- FLEX Module, FLEX Connector and Blind Connect HDDs
- Plug your Android™ based device into the USB port for system diagnostics
ThinkStation P510

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. 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® M4000 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® Quadro® M6000 card
- 490W and 650W power supply (Up to 92% efficiency)
- FLEX Module, FLEX Connector and Blind Connect HDDs

Options

NVIDIA® Quadro® M4000
Excellent performance and flexibility to tackle the most demanding visualization workloads; with 8GB of memory and advanced capabilities for up to four 4K displays.

The ThinkVision® P27 27” professional monitor (4k) (60E3-GAR1US) is the right choice for those who need an ultimate display to increase productivity and ease of use.

ThinkVision® P27 27” professional monitor (4k) (60E3-GAR1US)

Up to 65% recycled plastics

Wide variety of storage options
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

- Supports up to NVIDIA® Quadro® M5000 card
- Up to two Intel® Xeon® E5-1600 v4 family of processors
- 490W power supply (Up to 92% efficiency)
- FLEX Module, 9.5 mm Slim ODD and Media Card Reader

Options

NVIDIA® Quadro® M5000
Excellent performance and flexibility to tackle the most demanding visualization workloads; with 8GB of memory and advanced capabilities for up to four 5K displays.

The ThinkVision® Pro2820 28" professional monitor (2k) is the right choice for those who need an uncompromised display experience to increase productivity and ease of use.
Looking for value without sacrificing performance? This is the place.

Lenovo’s ThinkStation P310 workstations provide reliable power, great flexibility and solid productivity. The new Lenovo ThinkStation P310 Tower and SFF (Small Form Factor) provide high-performance computing with next generation Intel® Core™ or Xeon® processors to professionals who need entry-level workstation performance.

As professional results demand powerful graphics, the P310 systems also support both Intel® integrated graphics as well as up to a Quadro® M4000 graphics card from NVIDIA® (Quadro® K1200 for SFF). Both P310 workstations are energy-efficient, offering up to 92% power efficiency and 80 PLUS® Platinum certification.

The FLEX Module and FLEX Bay will enable you to configure your system based on your use case, which means you only pay for the performance you truly need.

Key Features

- Latest Intel® Xeon® E3-1200 v5 family of processors
- Supports up to 64GB DDR4 memory and M.2 SSD storage options
- Supports up to NVIDIA® Quadro® M4000 (SFF supports up to K1200)

- Up to 92% power efficiency and 80 PLUS® Platinum Certification
- Small Form Factor to save space (12.9 L)
- FLEX Module enabled
ThinkPad P70

Lenovo’s most powerful mobile workstation ever.

Designed for high-end professionals in industries ranging from Oil & Gas to Media & Entertainment, the Lenovo ThinkPad P70 reintroduces a 17" mobile workstation to the ThinkPad family; certified for the top ISV applications across industries. Powered by the new Intel® Xeon® Quad-Core processors for mobile workstations and NVIDIA® Quadro® GPUs for unmatched graphics capability.

The ThinkPad P70 features a brand new 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 P70 comes loaded with up to 64GB of DDR4 memory and the ability to handle up to four storage devices. Additionally, the ThinkPad P70 comes with two Intel® Thunderbolt™ 3 ports for ultra-fast connectivity and a 4K UHD display or optional FHD touch 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® M5000M graphics
- Up to 64GB DDR4 memory and PCIe M.2 storage up to 1TB
- Intel® Thunderbolt™ 3 with transfers of 40 Gbps
- 4K UHD FHD Touchscreen IPS Display
- X-Rite® Pantone® Integrated Color Calibrator

Up to 64GB DDR4 ECC memory
The Lenovo ThinkPad P50 is a feature-rich, high-performing mobile workstation for performance-seeking users. Lenovo’s thinnest, lightest full-function mobile workstation design yet; the ThinkPad P50 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 P50 includes DDR4 ECC memory for the fastest possible data access and up to a terabyte of SSD storage utilizing the latest PCIe technology for speeds up to five times faster than current SATA technology.

Powered by the new mobile Intel® Xeon® Quad-Core processors for mobile workstations and NVIDIA® Quadro® GPUs for unmatched graphics capability. The ThinkPad P50 features a brand new 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 v5 family of processors
- Supports up to NVIDIA® Quadro® M2000M graphics
- Up to 64GB DDR4 memory and PCIe M.2 storage up to 1TB
- Intel® Thunderbolt™ 3 with transfers of 40 Gbps
- 4K UHD FHD Touchscreen IPS Display
- X-Rite® Pantone® Integrated Color Calibrator
ThinkPad P50s

ThinkPad P50s: Lenovo's highest performing Ultrabook™ ever.

Performance and functionality have merged seamlessly in a thin and light chassis. The ThinkPad P50s starts at 4.9 lbs and only 23 mm thin. We’ve packed in an optional 3K Touch IPS display, Intel®’s latest Core™ i7 processor, up to 16GB of RAM and NVIDIA®’s Quadro® M500M 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 to keep 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 P50s.

Key Features

6th Generation Intel® Core™ i7 processor
Supports up to NVIDIA® Quadro® M500M graphics
3K IPS Display with optional touchscreen
Up to 16GB of memory and 1TB of storage

ISV-certified to run today’s most demanding applications
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.

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

<table>
<thead>
<tr>
<th>Purpose</th>
<th>ThinkStation P310 (TWR &amp; SFF)</th>
<th>ThinkStation P410</th>
<th>ThinkStation P510</th>
<th>ThinkStation P710</th>
<th>ThinkStation P910</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>Up to 1x Intel® Xeon® E3-1200 v5 Processor</td>
<td>Up to 1x Intel® Xeon® E5-1600 v4 Processor</td>
<td>Up to 1x Intel® Xeon® E5-1600 v4 Processor</td>
<td>Up to 2x Intel® Xeon® E5-2600 v4 Processor</td>
<td>Up to 2x Intel® Xeon® E5-2600 v4 Processor</td>
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<tr>
<td><strong>Chipset</strong></td>
<td>C236</td>
<td>C612</td>
<td>C612</td>
<td>C612</td>
<td>C612</td>
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<tr>
<td><strong>Memory Support</strong></td>
<td>Up to 64GB DDR4, 4 DIMM Slots EEC memory supported</td>
<td>Up to 128GB DDR4, 4 DIMM Slots EEC memory supported</td>
<td>Up to 256GB DDR4, 8 DIMM Slots EEC memory supported</td>
<td>Up to 384GB DDR4, 12 DIMM Slots EEC memory supported</td>
<td>Up to 1TB DDR4, 16 DIMM Slots EEC memory supported</td>
</tr>
<tr>
<td><strong>Maximum Storage Drives</strong></td>
<td>4 (TWR)/3 (SFF)</td>
<td>11</td>
<td>12</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td><strong>Max Storage</strong></td>
<td>SFF Max M.2 = 1 (512GB)³ Max M.2 = 2 (8TB)³ Max M.2 = 3 (16TB)³ Max M.2 = 4 (4TB)³</td>
<td>Max 3.5&quot; = 6 (4TB)³ Max 2.5&quot; = 10 (10TB)³ Max M.2 = 2 (2TB)³</td>
<td>Max 3.5&quot; = 10 (10TB)³ Max 2.5&quot; = 10 (10TB)³ Max M.2 = 2 (2TB)³</td>
<td>Max 3.5&quot; = 6 (4TB)³ Max 2.5&quot; = 6 (4TB)³ Max M.2 = 4 (4TB)³</td>
<td>Max 3.5&quot; = 6 (4TB)³ Max 2.5&quot; = 6 (4TB)³ Max M.2 = 4 (4TB)³</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>400W 92% Efficient - Tower only 250W 85% Efficient - Tower only 210W 85% Efficient</td>
<td>450W 92% Efficient</td>
<td>490W 90% Efficient 650W 92% Efficient</td>
<td>490W 90% Efficient 650W 92% Efficient</td>
<td>1300W 92% Efficient 170W or 230W</td>
</tr>
<tr>
<td><strong>Supported Graphics Cards</strong></td>
<td>Intel® Integrated HD 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® M6000 NVIDIA® Tesla® K40</td>
<td>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® M6000 NVIDIA® Tesla® K40</td>
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<td>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® M6000 NVIDIA® Tesla® M60 NVIDIA® Tesla® M60 Intel® Xeon Phi™</td>
<td>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® M6000 NVIDIA® Tesla® M60 Intel® Xeon Phi™</td>
</tr>
</tbody>
</table>

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¹Any combination of storage to equal Maximum Storage Drives. ³Special Bid Only.
<table>
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<tr>
<th>Purpose</th>
<th>ThinkPad P70</th>
<th>ThinkPad P50</th>
<th>ThinkPad P50s</th>
<th>ThinkPad P40 Yoga</th>
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<tbody>
<tr>
<td><strong>CPU Support</strong></td>
<td>Intel® Xeon® E3-1500M v5</td>
<td>Intel® Xeon® E3-1500M v5</td>
<td>6th Generation Intel® Core™ i7  Dual-Core</td>
<td>6th Generation Intel® Core™ i7  Dual-Core</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>CM236</td>
<td>CM236</td>
<td>CM236</td>
<td>CM236</td>
</tr>
<tr>
<td><strong>Memory Support</strong></td>
<td>4 SODIMM, 64GB Max, 2133MHz</td>
<td>4 SODIMM, 64GB Max, 2133MHz</td>
<td>2 SODIMM Slot, 32 GB Max. 1600MHz</td>
<td>1 SODIMM Slot, 16 GB Max.DDR3L</td>
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<tr>
<td><strong>Optical Types Supported</strong></td>
<td>DVD-RW</td>
<td>No ODD</td>
<td>No ODD</td>
<td>No ODD</td>
</tr>
<tr>
<td><strong>Max Storage</strong></td>
<td>Max 4 drives, 3TB (2TB HDD + 1TB PCIe/SATA SSD)</td>
<td>Max 3 drives, 2TB (2TB HDD or 1TB HDD + 1TB PCIe/SATA SSD)</td>
<td>Max 1 drive, 1TB (HDD) 512GB (SSD) 256GB (PCIe)</td>
<td>Max 1 drive, 1TB (HDD) 512GB (SSD)</td>
</tr>
<tr>
<td><strong>Battery (WHr)</strong></td>
<td>8 Cell (96 WHr)</td>
<td>4 Cell (68WHr) or 6 Cell(90WHr)</td>
<td>3 Cell (44 WH) Front + Up to 6 Cell (72 WH) Rear</td>
<td>3 Cell (53 WH)</td>
</tr>
<tr>
<td><strong>Supported Graphics Cards</strong></td>
<td>NVIDIA® Quadro® M6000M</td>
<td>NVIDIA® Quadro® M1000M</td>
<td>NVIDIA® Quadro® M5000M</td>
<td>NVIDIA® Quadro® M5000M</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>17&quot; FHD (1920 x 1080) IPS, 300 nits FHD Touch (1920 x 1080) IPS, 270 nits 4K UHD (3840 x 2160) IPS, 300 nits</td>
<td>15.6&quot; FHD (1920 x 1080) IPS, 250 nits FHD Touch (1920 x 1080) IPS, 220 nits 4K UHD (3840 x 2160) IPS, 300 nits</td>
<td>15.6&quot; FHD Touch (1920 x 1080) IPS, 270 nits 3K (2880 x 1620) IPS, 350 nits</td>
<td>14.1&quot; FHD Touch (1920 x 1080) IPS, 250 nits WQHD Touch (2560 x 1440) IPS, 300 nits</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Starting at 7.6 lbs (3.4 kg)</td>
<td>Starting at 5.6 lbs (2.5 kg)</td>
<td>Starting at 4.9 lbs (2.2 kg)</td>
<td>Starting at 3.9 lbs (1.8 kg)</td>
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</tbody>
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