Lenovo™ ThinkStation® P Series
and ThinkPad® P Series

PUSH THE LIMITS
OF PRODUCTIVITY,
CREATIVITY, AND
INNOVATION
Lenovo focuses on power, performance, and industry-leading reliability in every ThinkStation and ThinkPad we design. 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 necessary to handle the most demanding workloads. Absolutely key for a top performing workstation is the ability to keep its components cool. This is where our patented 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 a 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, dependable power to get the job done. Lenovo Workstations are designed from the ground up with customer-driven innovation, delivering the highest levels of performance, ease of use and industry-leading reliability. With our ingenious ThinkStation 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 the absolute best possible user experience to turn ideas into reality.

Key Features

**Ultimate Power & Performance**
Powered by the latest Intel Xeon CPUs and NVIDIA Quadro GPUs for the highest power and performance.

**Industry-Leading Reliability**
Proven industry leader in reliability according to a recent TBR PC reliability study.*

**Expanded Solutions Expertise**
Expanded support of emerging technologies such as AI and AR/VR, as well as software tools to optimize performance.

**Tested & Certified**
Tested and certified by independent software vendors (ISVs) to support the applications you need.

**Customer-Driven Innovation**
Ingenious modular design and tool-less access make upgrades and customizations effortless.

**ThinkShield Security**
Built with an advanced, comprehensive suite of ThinkShield features for the ultimate in security.

* According to the 2019 PC Reliability Study from Technology Business Research Inc.
ThinkStation P330 Tiny

THE WORLD’S SMALLEST WORKSTATION

The ThinkStation P330 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 P330 Tiny supports up to NVIDIA Quadro P1000 graphics, which combines a 640 CUDA core Pascal GPU, large on-board memory and advanced display technologies to deliver amazing performance for a range of professional workflows. The ThinkStation P330 Tiny is an ISV certified professional workstation with the latest 9th Gen Intel Core™ processors. Other features include support for up to 6 independent displays, 64GB DDR4 2666MHz memory, and dual 1TB M.2 NVMe SSDs.

KEY FEATURES

- Up to 9th Gen Intel Core i9 processor
- Front Type-C port available
- Up to NVIDIA Quadro P1000 Graphics Card
- Full ecosystem of Tiny accessories including Tiny-in-One
- Supports up to 64GB DDR4 2666MHz memory
- Dual M.2 PCIe NVMe storage up to 2TB
ThinkStation P330

POWER OF A WORKSTATION, PRICE OF A DESKTOP

Mission-critical tasks require superior reliability and powerful performance. ThinkStation P330 leads on both counts and does it with exceptional all-around value. The new 18L workstation comes equipped with high-performance Intel Core and Xeon processors, the latest NVIDIA Quadro RTX™ professional graphics, with VR Ready capability, cutting-edge storage technologies, including on-board 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 P330 also offers a breakthrough, entry-level way to create and consume VR. The P330 brings a faster, more powerful system that supports features including ISV certifications, the fastest storage available on an entry-level workstation, and up to 128GB DDR4 memory.

KEY FEATURES

- Intel Xeon E Series or up to 9th Gen Intel Core Series processor
- Supports up to 128GB DDR4 memory
- Up to 92% power efficiency
- Small Form Factor available to save space
- Supports up to NVIDIA Quadro P5000 (TWR)
- NVIDIA Quadro RTX 4000 (TWR)
- NVIDIA Quadro 2x P1000 (SFF)
- FLEX Module enabled (TWR)
ThinkStation P520c

MAINSTREAM WORKSTATION ON A BUDGET

Closing the gap in price and performance between entry-level and high-end workstations. The ThinkStation P520c offers a higher CPU performance and memory capacity than any entry-level workstation on the market. Offering the latest high-performance Intel Xeon W processors, NVIDIA Quadro professional graphics, and cutting-edge storage technologies in a compact tower workstation.

A next-generation mainstream workstation that’s powerful enough for any job and reliable enough for mission-critical environments. From handling large workloads to multitasking with ease, ThinkStation P520c takes everything in its stride. Energy-efficient and extremely reliable, it’s also ISV-certified, VR-ready and now comes with super-fast dual M.2 NVMe support directly on the motherboard.

KEY FEATURES

- Intel Xeon W Series processor (up to 18 cores, up to 4.5GHz)
- Supports up to NVIDIA Quadro RTX 4000 or P5000 Graphics Cards
- 256GB DDR4, 2933MHz, ECC memory
- 500W power supply (up to 92% efficiency)
- Up to 6 total drives, including dual M.2 support
- 4 PCIe slots on compact chassis
ThinkStation P520

USABILITY. RELIABILITY. PERFORMANCE.

The most powerful single CPU workstation: a next-generation system that packs enough punch for any job and is reliable enough for mission-critical environments. Customize a ThinkStation P520 for the power, performance, and usability you need, including the highest number of cores and incredible frequencies with the latest high-performing Intel Xeon W processors and professional NVIDIA Quadro graphics.

The P520 delivers peak performance for architects, designers, engineers, and creative professionals pushing the limits of 3D animation and visual effects. With super-fast memory, cutting-edge storage, dual M.2 support directly on the motherboard, ISV certification, and advanced cooling, it handles everything with ease from huge workloads to complex modelling to virtual reality.

KEY FEATURES

- Intel Xeon W Series processor (up to 18 cores, up to 4.5GHz)
- 690W or 900W power supply (up to 92% efficiency)
- Supports up to NVIDIA Quadro RTX 6000 or GV100 Graphics Cards
- ThinkStation M.2 Quad Adapter support
- Up to 8 total drives for ultimate flexibility
- Support for 10GB Aquantia networking card
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 and architecture, media and entertainment, finance, and medical industries.

KEY FEATURES

- Dual Intel Xeon Scalable Processors (up to 24 cores, up to 4.4GHz per CPU)
- 690W or 900W power supply (up to 92% efficiency)
- Supports up to NVIDIA Quadro RTX 8000 or dual GV100 Graphics Cards
- FLEX Module, FLEX Drive and Blind Connect HDDs
- Most storage capacity in its class
- Utilize smartphone app for system diagnostic information
ThinkStation P920

GET MORE DONE FASTER

Outfitted with the latest generation scaleable 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 2x NVIDIA Quadro RTX 8000 GPUs. Superior design features of 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 this 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.

KEY FEATURES

- Dual Intel Xeon Scalable Processors (up to 28 cores, up to 4.4GHz per CPU)
- 1400W power supply (92% efficiency)
- Supports up to 2x NVIDIA Quadro RTX 8000 or 3x GV100 Graphics Cards
- Utilize smartphone app for system diagnostic information
- FLEX Module, FLEX Drive and Blind Connect HDDs
- Most storage capacity in the industry
ThinkStation P920 Rack

SECURITY & EFFICIENCY
WITHOUT LIMITS

The ThinkStation P920 Rack combines true professional workstation performance in a fully scalable and secure 2U form factor.

Delivering comprehensive end-to-end IT management and security, the P920 Rack allows companies to keep complex project data and company IP closer to their storage systems - inside the data center. And by leveraging low latency remote access technologies, users can seamlessly collaborate on their most critical projects, enabling ultimate mobility and enhanced workforce productivity.

Featuring hot swappable and redundant cooling fans, storage drives, and power supplies for maximum system uptime, the P920 Rack provides the legendary ThinkStation reliability your company can depend on.

KEY FEATURES

- Intel Xeon 2nd Gen Scalable Processors
- Powerful NVIDIA Quadro RTX Graphics
- Up to 112TB of Enterprise Storage
- Up to 3TB of DDR4-2933MHz ECC Memory
- Hot Swap & Redundant Features
- Full Remote Management
ThinkPad P14s

LENOVO’S LIGHTEST MOBILE WORKSTATION

The ThinkPad P14s, Lenovo’s most mobile workstation, offers the latest Intel Core processors and NVIDIA Quadro professional graphics all in a compact 14-inch chassis. Designed with STEM students in mind, this highly mobile workstation is ideal for light-duty computer-aided design (CAD) in fields such as architecture or engineering.

Perfect for highly mobile power users, with a battery that runs up to 15 hours, the lightweight ThinkPad P14s practically begs to accompany you everywhere. And with an option for a privacy guard display, this workstation has you protected from every angle - giving you the freedom to innovate fearlessly anytime, anywhere.

KEY FEATURES

- 10th Gen Intel Core i7 processor
- NVIDIA Quadro P520 Graphics Card
- 14" HDR 400 Display with Dolby Vision HDR
- Up to 48GB of DDR4 memory, and 2TB NVMe SSD
- 1 USB Type-C
- 1 Thunderbolt
- Up to 15 hours battery life*

* Based on testing with MobileMark 2014. Battery life varies significantly with settings, usage, and other factors. Requires 65W AC power adapter (included).
ThinkPad P15s

DESIGN THAT DELIVERS ON-THE-GO POWER AND PERFORMANCE

A perfect mix of power and performance, the ThinkPad P15s combines the latest Intel Core processors and NVIDIA Quadro professional graphics, all in a thin and light design.

Built for work on the go, this ultra-mobile workstation boasts an impressive 16-hour battery life – keeping your productivity high wherever your work takes you. And with built-in ThinkShield security features, your business-critical information is protected from every angle.

Created with students, architects, and engineers in mind, the P15s is designed to ignite creativity anytime, anywhere.

KEY FEATURES

- 10th Gen Intel Core i7 processor
- NVIDIA Quadro P520 Graphics Card
- 4K 15" HDR 400 Display with Dolby Vision HDR
- Up to 48GB of DDR4 memory, and 2TB NVMe SSD
- 1 USB Type-C
- 1 Thunderbolt
- Up to 16 hours battery life*

* Based on testing with MobileMark 2014. Battery life varies significantly with settings, usage, and other factors. Requires 65W AC power adapter (included).
ThinkPad P1

THE POWER YOU NEED, THE MACHINE YOU WANT

Is it better to be powerful or mobile? Lenovo asked this question, and with the ThinkPad P1 Gen 2, the answer can be both. With the perfect combination of workstation know-how, ultra-premium stylish design and true mobility, the ThinkPad P1 removes the tradeoff of sacrificing looks for power.

Built with the latest 9th Gen Intel Xeon and Core processors and NVIDIA Quadro graphics, the ThinkPad P1 is the right solution for users looking for the perfect combination of style and power. And with our signature black finish, encased in carbon fiber and magnesium alloy, this beauty has the style to match the power inside.

Now featuring a vibrant 4K OLED display, users can experience true-to-life images and videos with expanded contrast, brilliant colors, and stunning detail. Perfect for architects, interior designers, creative directors, producers, and beyond, no one will mistake this machine for anything less than an ultra-premium must-have.

KEY FEATURES

- 9th Gen Intel Xeon and Core processors
- Up to 64GB DDR4 Memory, and 4TB NVMe SSD
- Up to NVIDIA Quadro T2000 Graphics Card
- Dolby Atmos Certified Sound System
- 15.6” Display, 4K OLED Touch HDR500 True Black
- Wi-Fi 6
ThinkPad P53

UNLOCKING NEXT-LEVEL POWER AND PERFORMANCE

The ThinkPad P53 breaks performance barriers to achieve a new milestone for mobile workstations. Through impeccable design and engineering, Lenovo has created the most powerful 15-inch mobile workstation. Packed with the latest 9th Gen Intel Xeon and Core processors and the most powerful NVIDIA Quadro RTX 5000 graphics, the P53 raises the bar for workstation power.

Perfect for engineers, architects, and designers, the P53 is built to handle AR and VR content creation, deployment of mobile AI or demanding ISV workflows with ease. And with the addition of a vibrant 4K OLED display, HDR500 True Black and up to 6TB of PCIe NVMe SSD storage, the P53 sets a new standard for mobile workstations.

KEY FEATURES

- 9th Gen Intel Xeon and Core processors
- 15" Display, 4K OLED Touch HDR500 True Black
- Up to NVIDIA Quadro RTX 5000 Graphics Card
- Up to 128GB DDR4 Memory, and 6TB NVMe SSD
- New Slim 230W Power Supply 30% Smaller
- Dolby Atmos Certified Sound System
ThinkPad P73

MAXIMIZE YOUR CREATIVE SPACE

The ThinkPad P73 takes your productivity to the next level with the ultimate in professional power and the largest workspace available in a mobile workstation. Built to tackle advanced and demanding workflows with ease, this 17-inch chassis is packed with the latest 9th Gen Intel Xeon and Core processors and the most powerful NVIDIA Quadro RTX 5000 graphics.

Boasting an impressive 17-inch 4K display with Dolby Vision HDR, the P73 provides the largest workspace available in a mobile workstation. Perfect for multi-window applications and split screen multi-tasking, this workhorse will take your productivity to the next level.

KEY FEATURES

- 9th Gen Intel Xeon and Core processors
- New Slim 230W Power Supply 30% Smaller
- Up to NVIDIA Quadro RTX 5000 Graphics Card
- 17” Display, 4K with Dolby Vision HDR
- Up to 128GB DDR4 Memory, and 6TB NVMe SSD
- Dolby Atmos Certified Sound System
## Desktop Workstation Comparison:
### Single CPU Systems

<table>
<thead>
<tr>
<th>ThinkStation P330 Tiny</th>
<th>ThinkStation P330 (TWR &amp; SFF)</th>
<th>ThinkStation P520c</th>
<th>ThinkStation P520</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>Up to 9th Gen Intel Core i9-9900T - 8 Core - 4.4GHz</td>
<td>Up to 9th Gen Intel Core i9-9900K - 8 Core - 5.0GHz</td>
<td>Intel Xeon W Series - up to 18 cores - up to 4.5GHz</td>
</tr>
<tr>
<td><strong>Graphics Card</strong></td>
<td>Intel Integrated HD</td>
<td>NVIDIA Quadro P620, P1000</td>
<td>NVIDIA Quadro NVS 810</td>
</tr>
<tr>
<td><strong>Memory Support</strong></td>
<td>Up to 64GB DDR4, 2666MHz 2 DIMM Slots (SoDIMM)</td>
<td>Up to 128GB DDR4, 2666MHz non-ECC 4 DIMM Slots (UDIMM) 4GB / 8GB / 16GB / 32GB non-ECC 8GB / 16GB ECC</td>
<td>Up to 256GB DDR4, 2933MHz ECC 4 DIMM Slots (RDIMM) 8GB / 16GB / 32GB</td>
</tr>
<tr>
<td><strong>Max Drives</strong></td>
<td>3 Drives</td>
<td>7 Drives (TWR) / 5 Drives (SFF)</td>
<td>6 Drives</td>
</tr>
<tr>
<td><strong>Max Storage</strong></td>
<td>Max M.2 = 2 (2TB) Max 2.5&quot; = 1 (2TB)</td>
<td>SFF TWR Max M.2 = 3 (6TB) Max 2.5&quot; = 1 (4TB) Max 2.5&quot; = 2 (2TB) 4 (4TB)</td>
<td>Max M.2 = 2 (4TB) Max 3.5&quot; = 4 (24TB) Max 2.5&quot; = 4 (8TB)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>135W / 88% Efficient (external)</td>
<td>210W / 85% Efficient - SFF 260W / 92% Efficient - SFF 250W / 92% Efficient - Tower 400W / 92% Efficient - Tower</td>
<td>500W / 92% Efficient</td>
</tr>
</tbody>
</table>
### Desktop Workstation Comparison

#### Dual CPU Systems

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Graphics Card</th>
<th>Memory Support</th>
<th>Max Drives</th>
<th>Max Storage</th>
<th>Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkStation P720</td>
<td>Dual Intel Xeon Scalable Processor - up to 24 cores per CPU - up to 4.4GHz per CPU</td>
<td>NVIDIA Quadro NVS 810</td>
<td>Up to 384GB DDR4, 2933MHz ECC 12 DIMM Slots (RDIMM) 8GB / 16GB / 32GB / 64GB</td>
<td>12 Drives</td>
<td>Max M.2 = 2 (4TB)² Max 3.5&quot; = 6 (60TB) Max 2.5&quot; = 10 (20TB)</td>
<td>690W / 92% Efficient 900W / 92% Efficient</td>
</tr>
<tr>
<td>ThinkStation P920</td>
<td>Dual Intel Xeon Scalable Processor - up to 28 cores per CPU - up to 4.4GHz per CPU</td>
<td>NVIDIA Quadro P400, P620, P1000, P2000, P2200, P4000, P5000, P6000 NVIDIA Quadro RTX 4000, 5000, 6000, 8000 NVIDIA Quadro GP100, GV100 NVIDIA Tesla M60³</td>
<td>Up to 2TB DDR4, 2933MHz ECC 16 DIMM Slots (supports RDIMM and LRDIMM) 8GB / 16GB / 32GB / 64GB / 128GB</td>
<td>12 Drives</td>
<td>Max M.2 = 2 (4TB)² Max 3.5&quot; = 6 (60TB) Max 2.5&quot; = 10 (20TB)</td>
<td>1400W / 92% Efficient</td>
</tr>
<tr>
<td>ThinkStation P920 Rack</td>
<td>Dual Intel Xeon Scalable Processor - up to 28 cores per CPU - up to 4.4GHz per CPU</td>
<td>NVIDIA Quadro NVS 810</td>
<td>Up to 3TB DDR4, 2933MHz ECC 24 DIMM Slots (RDIMM/3DS RDIMM) 8GB / 16GB / 32GB / 64GB / 128GB</td>
<td>10 Drives</td>
<td>M.2 SATA = 2 (960GB) Boot Drives Max 3.5&quot; = 8 (112TB)</td>
<td>1100W (230V/115V) Platinum Efficient 1600W (230V) Platinum Efficient</td>
</tr>
</tbody>
</table>

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
4. Available on Intel Xeon Gold and Platinum CPUs only
<table>
<thead>
<tr>
<th>Mobile Workstation</th>
<th>Product Comparison</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LENOVO’S LIGHTEST MOBILE WORKSTATION</strong></td>
<td><strong>ON-THE-GO POWER AND PERFORMANCE</strong></td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>10th Gen Intel Core i7</td>
</tr>
<tr>
<td>- Up to 6 Core</td>
<td>- Up to 6 Core</td>
</tr>
<tr>
<td>- 10th Gen Intel Core i5</td>
<td>- Up to 4.9GHz</td>
</tr>
<tr>
<td>- 4 Core</td>
<td>- Up to 4.4GHz</td>
</tr>
<tr>
<td>- 10th Gen Intel Core i5</td>
<td>- Up to 4.9GHz</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>15.6” Display</td>
</tr>
<tr>
<td>4K UHD (3840 x 2160) IPS</td>
<td>4K UHD (3840 x 2160) IPS</td>
</tr>
<tr>
<td>500nit, HDR 400, Dolby Vision HDR</td>
<td>600nit, HDR 400, Dolby Vision HDR</td>
</tr>
<tr>
<td>FHD (1920 x 1080) IPS</td>
<td>FHD (1920 x 1080) IPS</td>
</tr>
<tr>
<td>500nit, on-cell touch, 72% NTSC</td>
<td>Touch 300nit, 45% NTSC</td>
</tr>
<tr>
<td>- Low Power 400nit, 72% NTSC</td>
<td>- 250nit, 45% NTSC</td>
</tr>
<tr>
<td>- Touch 300nit, 45% NTSC</td>
<td>- 250nit, 45% NTSC</td>
</tr>
<tr>
<td><strong>Graphics Card</strong></td>
<td>NVIDIA Quadro P520</td>
</tr>
<tr>
<td><strong>Memory Support</strong></td>
<td>Up to 48GB DDR4</td>
</tr>
<tr>
<td>1 Soldered Down / 1 SoDIMM Slot</td>
<td>8GB / 16GB / 32GB</td>
</tr>
<tr>
<td><strong>Max Storage</strong></td>
<td>Up to 2TB NVMe SSD</td>
</tr>
<tr>
<td><strong>Battery Power Supply</strong></td>
<td>50WHR</td>
</tr>
<tr>
<td>65W Type-C Rapid Charge</td>
<td>65W Type-C Rapid Charge</td>
</tr>
<tr>
<td><strong>Weight Thinness</strong></td>
<td>Starting at: 3.24lbs (1.47kg) 17.9mm Thin</td>
</tr>
</tbody>
</table>
Lenovo™ ThinkStation® P Series
and ThinkPad® P Series

Lenovo
1009 Think Place
Morrisville, NC 27560
USA
866-968-4465

Lenovo, the Lenovo logo, ThinkPad, ThinkStation and ThinkVision are trademarks or registered trademarks of Lenovo.
Intel, Intel Logo, Intel Core, Core Inside, Xeon, Xeon Inside and Ultrabook are trademarks of Intel Corporation in the U.S. and other countries.
NVIDIA is a trademark and/or registered trademark of NVIDIA Corporation in the U.S. and other countries.
Android is a trademark of Google Inc. Other company, product and service names may be trademarks or service marks of others. ©2019 Lenovo. All rights reserved.