

# Lenovo Workstations

ThinkStation P Series and ThinkPad P Series

Push the limits of productivity,  
creativity, and innovation



Lenovo



Lenovo Tech Specs

Lenovo  
**ThinkStation**

Lenovo  
**ThinkPad**

## Why Lenovo

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.



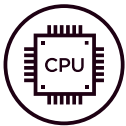
Lenovo

# 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® Core™ and Xeon® CPUs and NVIDIA® professional GPUs delivers the absolute best possible user experience to turn ideas into reality.



## Key Features



### Ultimate Power & Performance

Powered by the latest Intel Core and Xeon CPUs and NVIDIA professional GPUs for maximum power and performance.



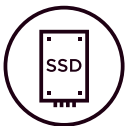
### Expanded Solutions Expertise

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



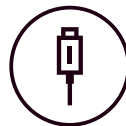
### ThinkShield Security

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



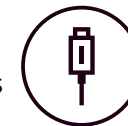
### Tested & Certified

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



### Sustainable Materials & Certifications

Manufactured and packaged responsibly to reduce carbon emissions without compromising on quality.



### Enhanced Serviceability

Front panel LCD for error detection and tool-less modularity for easy upgrades and custom configurations

# Lenovo Desktop Workstations

## ThinkStation P360 Tiny

1 Liter



The World's Smallest Workstation

## ThinkStation P360 Ultra

3.9 Liter



Redefining the Power of Small

## ThinkStation P358

17 Liter



Power of a Workstation, Price of a Desktop

## ThinkStation P360 Tower

17 Liter



Power of a Workstation, Price of a Desktop

<b>Processor</b>	<b>Up to 12<sup>th</sup> Gen Intel Core i9</b> › up to 16 cores › up to 5.2GHz	<b>12<sup>th</sup> Gen Intel Core i3, i5, i7, i9</b> › up to 16 cores › up to 5.2GHz	<b>AMD Ryzen™ 3 PRO, Ryzen™ 5 PRO, Ryzen™ 7 PRO, Ryzen™ 9 PRO</b> › Up to 12 cores › Up to 4.7GHz	<b>Up to 12<sup>th</sup> Gen Intel Core i9</b> › up to 16 cores › up to 5.2GHz
<b>Graphics</b>	Integrated: <b>Intel UHD</b> Discrete: <b>NVIDIA T400, T600, T1000</b>	Integrated: <b>Intel UHD</b> Discrete: <b>NVIDIA T400, T1000 NVIDIA RTX A2000, A5000M</b>	Discrete: <b>NVIDIA RTX A2000 NVIDIA T1000</b>	Integrated: <b>Intel UHD</b> Discrete: <b>NVIDIA T400, T600, T1000 NVIDIA RTX A2000, A4000, A4500, A5000</b>
<b>Memory Support</b>	Up to <b>64GB DDR5 4800MHz</b> › 2 DIMM Slots (SoDIMM) › 8GB / 16GB / 32GB	Up to <b>128GB DDR5 4000MHz<sup>^</sup></b> › 4 DIMM Slots (SoDIMM) › 8GB / 16GB / 32GB non-ECC 16GB / 32GB ECC <sup>^</sup>	Up to <b>128GB DDR4 3200MHz</b> › 4 DIMM Slots (UDIMM) › 8GB / 16GB / 32GB3 non-ECC or ECC	Up to <b>128GB DDR5 4400MHz</b> › 4 DIMM Slots (UDIMM) › 8GB / 16GB / 32GB non-ECC 16GB / 32GB ECC
<b>Max Drives</b>	<b>2 Drives</b>	<b>3 Drives</b>	<b>3 Drives</b>	<b>7 Drives</b>
<b>Max Storage<sup>1</sup></b>	<b>Max M.2 = 2</b> (4TB)	<b>Max M.2 = 2</b> (8TB) <b>Max 2.5" = 1</b> (1TB)	<b>Max M.2 = 1</b> (2TB) <b>Max 3.5" = 2</b> (8TB)	<b>Max M.2 = 3</b> (6TB), (10TB) <sup>2</sup> <b>Max 3.5" = 4</b> (12TB) <b>Max 2.5" = 4</b> (4TB)
<b>Power Supply</b>	<b>170W</b> (90% Efficient) <b>230W</b> (90% Efficient)	<b>170W</b> (89% efficient) <b>230W</b> (89% efficient) <b>300W</b> (89% efficient)	<b>300W</b> (90% efficient) <b>500W</b> (92% efficient) <b>750W</b> (92% efficient)	<b>500W</b> (92% efficient) <b>750W</b> (92% efficient)
<b>Dimensions (WxDxH)</b>	<b>37 x 183 x 179mm</b> <b>1.5 x 7.2 x 7"</b>	<b>87 x 223 x 202mm</b> <b>3.4 x 8.7 x 7.9"</b>	<b>170 x 315 x 376mm</b> <b>6.7 x 12.4 x 14.8"</b>	<b>170 x 315 x 376mm</b> <b>6.7 x 12.4 x 14.8"</b>

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

<sup>2</sup> Additional M.2 or Add-in-Card PCIe SSD drives can be installed via rear PCIe adapters

# Lenovo Desktop Workstations

## ThinkStation P620



33 Liter

Game Changing Power, and Speed

## ThinkStation P5



33 Liter

The Future-proof Industry Workhorse

## ThinkStation P7



39 Liter

Staggering, Single-Socket Power

## ThinkStation PX



54 Liter

The Pinnacle of Lenovo Technology

<b>Processor</b>	<b>AMD Ryzen™ Threadripper™ PRO</b> › up to 64 cores › up to 4.5GHz	<b>Intel® Xeon® W-2400 processor</b> › up to 24 cores › up to 4.8GHz	<b>Intel Xeon W-3400 processor</b> › up to 56 cores › up to 4.8GHz		<b>Dual 4<sup>th</sup> Gen Intel Xeon Scalable processors</b> › up to 120 cores › up to 4.1GHz
<b>Graphics</b>	Discrete: <b>NVIDIA RTX 4000, 5000, 6000, 8000, A2000, A4000, A4500, A5000, A6000, 6000 Ada</b> NVIDIA P1000, T400, T600, T1000	Discrete: <b>NVIDIA RTX A2000, A4500, A5500, A6000</b> NVIDIA T400, T1000	Discrete: <b>NVIDIA RTX A2000, A4500, A5500, A6000, 6000 Ada</b> NVIDIA T400, T1000		Discrete: <b>NVIDIA RTX A2000, A4500, A5500, A6000, 6000 Ada</b> NVIDIA T400, T1000
<b>Memory Support</b>	Up to <b>1TB 3200MHz ECC</b> › 8 DIMM Slots (RDIMM) › 16GB / 32GB / 64GB / 128GB	Up to <b>512GB DDR5, 4800MHz<sup>2</sup> ECC</b> › 8 DIMM Slots (RDIMM) › 16GB / 32GB / 64GB	Up to <b>1TB DDR5, 4800MHz<sup>2</sup> ECC</b> › 8 DIMM Slots (RDIMM) › 16GB / 32GB / 64GB / 128GB		Up to <b>2TB DDR5 4800MHz<sup>2</sup> ECC</b> › 16 DIMM Slots (RDIMM) › 16GB / 32GB / 64GB / 128GB
<b>Max Storage</b>	<b>6 Drives</b>	<b>6 Drives</b>	<b>6 Drives</b>	<b>7 Drives</b>	<b>7 Drives</b> <b>9 Drives</b>
<b>Max Drives<sup>1</sup></b>	<b>Max M.2 = 2</b> (4TB) <b>Max 3.5" = 4</b> (16TB)	<b>Max M.2 = 3</b> (12TB) <b>Max 3.5" = 3</b> (36TB)	<b>Max M.2 = 5</b> (20TB) <b>Max 3.5" = 1</b> (12TB)	<b>4</b> (16TB) <b>3</b> (36TB)	<b>Max M.2 = 3</b> (12TB) <b>7</b> (28TB) <b>Max 3.5" = 4</b> (48TB) <b>2</b> (24TB)
<b>Power Supply</b>	<b>1000W</b> (92% Efficient)	<b>750W</b> (92% Efficient) <b>1000W</b> (92% Efficient)	<b>1000W</b> (92% Efficient) <b>1400W</b> (92% Efficient)		<b>1850W</b> (92% Efficient) Optional redundant power supplies <sup>3</sup>
<b>Dimensions (WxDxH)</b>	<b>165 x 460 x 440mm</b> <b>6.5 x 18.1 x 17.3"</b>	<b>165 x 453 x 440mm</b> <b>6.5 x 17.8 x 17.3"</b>	<b>175 x 508 x 435mm</b> <b>6.9 x 20 x 17.1"</b>		<b>200 x 575 x 435mm</b> <b>8.7 x 22.6 x 17.1"</b>



<sup>1</sup> Depending on drive configuration

<sup>2</sup> 4800GHz max speed; available depending on configuration

<sup>3</sup> Configuration dependent

# Lenovo Mobile Workstations

## ThinkPad P14s



## ThinkPad P14s i



## ThinkPad P16s



## ThinkPad P16s i



## ThinkPad T15p



### Power that Moves

### Lenovo's Lightest Mobile Workstation

### Workstation Power on the go

### Performance at the Speed of Life

### Mainstream Performance

<b>Processor</b>	<b>AMD Ryzen™ 5 PRO, Ryzen™ 7 PRO</b> › up to 8 cores › up to 4.7GHz	<b>12<sup>th</sup> Gen Intel Core i5, i7</b> › up to 14 cores › up to 4.8GHz	<b>AMD Ryzen™ 5 PRO, Ryzen™ 7 PRO</b> › up to 8 cores › up to 4.7GHz	<b>12<sup>th</sup> Gen Intel Core i5, i7</b> › up to 14 cores › up to 4.8GHz	<b>12<sup>th</sup> Gen Intel Core i7 H-Series</b> › up to 14 cores › up to 4.8GHz
<b>Graphics</b>	Processor Integrated: <b>AMD Radeon™ Graphics +</b> optimized PRO Driver set	Processor Integrated: <b>Intel Iris Xe<sup>1</sup></b> Discrete: <b>NVIDIA T550</b>	Processor Integrated: <b>AMD Radeon™ Graphics +</b> optimized PRO Driver set	Processor Integrated: <b>Intel Iris Xe<sup>1</sup></b> Discrete: <b>NVIDIA T550</b>	Discrete: <b>NVIDIA GeForce RTX 3050</b>
<b>Memory Support</b>	Up to <b>32GB LPDDR5 6400MHZ</b> › 2 Soldered Down › 8GB / 16GB (SDRAM)	Up to <b>48GB DDR4 3200MHZ</b> › 1 Soldered Down / 1 SoDIMM Slot › 8GB / 16GB (SDRAM/SoDIMM), 32GB (SoDIMM only)	Up to <b>32GB LPDDR5 6400MHZ</b> › 2 Soldered Down › 8GB / 16GB (SDRAM/SoDIMM)	Up to <b>48GB DDR4 3200MHZ</b> › 1 Soldered Down / 1 SoDIMM Slot › 8GB / 16GB (SDRAM/SoDIMM), 32GB (SoDIMM only)	Up to <b>64GB DDR5 4800MHZ</b> › 2 SoDIMM Slots › 8GB / 16GB / 32GB
<b>Max Storage</b>	Up to <b>2TB NVMe PCIe Gen4 SSD</b>	Up to <b>2TB PCIe Gen4 NVMe SSD</b>	Up to <b>2TB PCIe Gen4 NVMe SSD</b>	Up to <b>2TB PCIe Gen4 NVMe SSD</b>	Up to <b>4TB PCIe Gen4 NVMe Performance SSD</b>
<b>Power Supply</b>	<b>65W AC Adapter Type-C</b> › Rapid Charge	<b>65W or 100W AC Adapter Type-C</b> › Rapid Charge	<b>65W, 100W AC Adaptor Type-C</b> › Rapid Charge	<b>65W, 100W, 135W AC Adapter Type-C</b> › Rapid Charge	<b>135W Slim</b> › Rapid Charge
<b>Battery</b>	<b>39.3WHr or 52.5WHr</b>	<b>39.3WHr or 52.5WHr</b>	<b>52.5WHr or 86WHr</b>	<b>52.5WHr or 86WHr</b>	<b>68WHr</b>
<b>Weight Thinness</b>	Starting at: <b>3.08lbs</b> (1.40kg) <b>0.7"</b> (17.9mm)	Starting at: <b>3.05lbs</b> (1.38kg) <b>0.7"</b> (17.9mm)	Starting at: <b>3.99lbs</b> (1.81kg) <b>0.8"</b> (20.5mm)	Starting at: <b>3.97lbs</b> (1.80kg) <b>0.8"</b> (20.5mm)	Starting at: <b>4.91lbs</b> (2.23kg) <b>0.8-0.9"</b> (21.17-24.2mm)
<b>Display</b>	<b>14" Display</b> <b>WQUXGA (3840 x 2400) IPS AOFT</b> › Touch, 500nit, HDR 400, Dolby Vision, 100% DCI-P3, X-Rite FCC, LBL, TÜV <b>WUXGA (1920 x 1200) IPS</b> › Touch, 300nit, LCLW, 45% CG › 300nit, 45% CG › 400nit, Low Power, 100% sRGB	<b>14" Display</b> <b>WQUXGA (3840 x 2400) IPS AOFT</b> › Touch, 500nit, HDR 400, Dolby Vision, 100% DCI-P3, X-Rite FCC, LBL, TÜV <b>2.2K (2240 x 1400) IPS</b> › 300nit, 100% sRGB, LBL, TÜV <b>WUXGA (1920 x 1200) IPS</b> › Touch, 500nit, Privacy Guard, 100% sRGB › Touch, 300nit, LCLW, 45% CG › 400nit, Low Power, 100% sRGB › 300nit, 45% CG	<b>16" Display</b> <b>WQXGA (2560x1600) IPS</b> › 400nit, Dolby Vision, 100% sRGB, X-Rite FCC, AG, LBL, TÜV <b>WUXGA (1920 x 1200) IPS</b> › Touch, 500nit, LCLW, Privacy Guard, 100% sRGB, AG, TÜV › 400nit, Low Power, AG, LBL, TÜV › Touch, 300nit, Narrow, LCLW, 45%CG, AG › 300nit, Narrow, 45%CG, AG	<b>16" Display</b> <b>WQXGA (2560x1600) IPS</b> › 400nit, AG, Dolby Vision, 100% sRGB, X-Rite FCC, LBL, TÜV <b>WUXGA (1920 x 1200) IPS</b> › Touch 500nit, AG, LCLW, Privacy Guard, 100% sRGB, TÜV › 400nit, AG, Low Power, LBL, TÜV › Touch, 300nit, AG, Narrow, LCLW, 5%CG › 300nit, AG, Narrow, 45%CG	<b>15.6" Display</b> <b>UHD (3840 x 2160)</b> - IPS, 600nit, AG, 100% Adobe, HDR400, Dolby Vision HDR, X-Rite FCC <b>FHD (1920 x 1080)</b> - IPS, Touch, 300nit, AG, 45% sRGB - IPS, 300nit, AG, 100% sRGB - IPS, 300nit, AG, 45% NTSC

# Lenovo Mobile Workstations

## ThinkPad P15v



## ThinkPad P15v i



## ThinkPad P1



## ThinkPad P16



### Built for Creators Who Demand More Value

### Accessible Power

### Premium Power, True Mobility

### Performance Unpacked

<b>Processor</b>	<b>AMD Ryzen™ 5 PRO, Ryzen™ 7 PRO</b> › up to 8 cores › up to 4.7GHz	<b>12<sup>th</sup> Gen Intel Core i5, i7, i9 H-Series</b> › up to 14 cores › up to 5.0GHz	<b>12<sup>th</sup> Gen Intel Core i7, i9 H-Series</b> › up to 14 cores › up to 5.0GHz	<b>12<sup>th</sup> Gen Intel Core i5, i7, i9 HX-Series</b> › up to 16 cores › up to 5.0GHz
<b>Graphics</b>	Discrete: <b>NVIDIA T600, T1200, RTX A2000</b>	Processor Integrated: <b>Intel Iris Xe<sup>1</sup></b>  Discrete: <b>NVIDIA T600, T1200, RTX A2000</b>	Processor Integrated: <b>Intel Iris Xe<sup>1</sup></b>  Discrete: <b>NNVIDIA RTX A1000, A2000, A3000, A4500, A5500</b> <b>NVIDIA GeForce RTX 3070 Ti, 3080 Ti</b>	Processor Integrated: <b>Intel UHD</b>  Discrete: <b>NVIDIA RTX A1000, A2000, A3000, A4500, A5500</b>
<b>Memory Support</b>	Up to <b>64GB DDR5 4800MHz</b> › 2 SoDIMM Slots › 8GB / 16GB / 32GB	Up to <b>64GB DDR5 4800MHz</b> › 2 SoDIMM Slots › 8GB / 16GB / 32GB	Up to <b>64GB DDR5 4800MHz</b> › 2 SoDIMM Slots › 8GB / 16GB / 32GB	Up to <b>128GB DDR5 4800MHz<sup>2</sup></b> › 4 SoDIMM Slots › 8GB non-ECC, 16GB / 32GB ECC & non-ECC
<b>Max Storage</b>	Up to <b>4TB PCIe Gen4 NVMe Performance SSD</b>	Up to <b>4TB PCIe Gen4 NVMe Performance SSD</b>	Up to <b>8TB M.2 PCIe Gen4 NVMe Performance SSD</b>	Up to <b>8TB M.2 PCIe Gen4 NVMe Performance SSD</b>
<b>Power Supply</b>	<b>135W Slim</b> › Rapid Charge	<b>135W Slim</b> › Rapid Charge	<b>135W Slim, 170W Slim, 230W Slim</b> › Rapid Charge	<b>170W Slim, 230W Slim</b> › Rapid Charge
<b>Battery</b>	<b>68Whr</b>	<b>68Whr</b>	<b>90Whr</b>	<b>94Whr</b>
<b>Weight Thinness</b>	Starting at: <b>4.98lbs</b> (2.26kg) <b>0.83-0.95"</b> (21-24mm)	Starting at: <b>4.62lbs</b> (2.10kg) <b>0.83-0.95"</b> (21-24mm)	Starting at: <b>3.99lbs</b> (1.81kg) <b>0.7"</b> (18mm)	Starting at: <b>6.5lbs</b> (2.95kg) <b>1.2"</b> (30.23mm)
<b>Display</b>	<b>15.6" Display</b> <b>UHD (3840 x 2160)</b> › IPS, 600nit, 100% Adobe®, HDR400, Dolby Vision HDR, X-Rite FCC, AG <b>FHD (1920 x 1080)</b> › IPS, 300nit, AG, 100% sRGB › IPS, 300nit, AG, 45% NTSC	<b>15.6" Display</b> <b>UHD (3840 x 2160)</b> - IPS, 600nit, AG, 100% Adobe, HDR400, Dolby Vision HDR, X-Rite FCC <b>FHD (1920 x 1080)</b> - IPS, Touch, 300nit, AG, 45% sRGB - IPS, 300nit, AG, 100% sRGB - IPS, 300nit, AG, 45% NTSC	<b>16" Display</b> <b>WQUXGA (UHD+) (3840x2400)</b> - IPS Touch, 600nit, AR-AS, 100% Adobe, LBL, HDR400, Dolby Vision HDR, X-Rite FCC - IPS, 600nit, AG, 100% Adobe, LBL, HDR400, Dolby Vision HDR, X-Rite FCC <b>WQXGA (QHD+) (2560x1600)</b> - IPS, 400nit, AG, 100% sRGB, LBL, 165Hz, X-Rite FCC <b>WUXGA (FHD+) (1920x1200)</b> - IPS, 300nit, AG, 100% sRGB, LBL, X-Rite FCC	<b>16" Display</b> <b>WQUXGA (UHD+) (3840x2400)</b> - OLED Touch, 400nit, AR-AS, 100% DCI-P3, LBL, HDR500 True Black, Dolby Vision HDR, X-Rite FCC - IPS, 600nit, AG, 100% Adobe, LBL, HDR400, Dolby Vision HDR, X-Rite FCC <b>WQXGA (QHD+) (2560 x 1600)</b> - IPS, 400nit, AG, 100% sRGB, LBL, X-Rite FCC WUXGA (FHD+) (1920 x 1200) - IPS, 300nit, AG, 100% sRGB, LBL, X-Rite FCC

# Lenovo Workstations

Lenovo

## Lenovo

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