

Lenovo Workstations

ThinkStation P Series and ThinkPad P Series

Push the limits of productivity,
creativity, and innovation



Lenovo



Escape Technology

Version - Nov 2023

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.



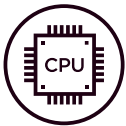
Lenovo

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® and AMD Professional CPUs and NVIDIA RTX™ professional GPUs delivers the absolute best possible user experience to turn ideas into reality.



Key Features



Ultimate Power & Performance

Powered by the latest Intel and AMD Professional CPUs and NVIDIA RTX Professional GPUs for maximum power and performance.



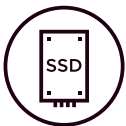
Expanded Solutions Expertise

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



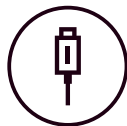
ThinkShield Security

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



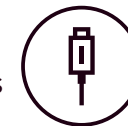
Tested & Certified

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 P3 Tiny



Intel

1 Liter

**The World's Smallest
Workstation**

ThinkStation P3 Ultra



Intel

3.9 Liter

The Evolution of Small

ThinkStation P358



AMD

17 Liter

**Power of a Workstation,
Price of a Desktop**

ThinkStation P3 Tower



Intel

27 Liter

**Engineered by Engineers
for Engineers**

Processor	Intel vPro with 13th Gen Intel Core i3, i5, i7, i9 › up to 24 cores › up to 5.6GHz	Intel vPro with 13th Gen Intel Core i3, i5, i7, i9 › up to 24 cores › up to 5.8GHz	AMD Ryzen 3 PRO, Ryzen 5 PRO, Ryzen 7 PRO, Ryzen 9 PRO › Up to 12 cores › Up to 4.7GHz	Intel vPro with 13th Gen Intel Core i3, i5, i7, i9 › up to 24 cores › up to 5.8GHz
Graphics	Integrated: Intel UHD Discrete: NVIDIA T400, T1000	Integrated: Intel UHD Discrete: NVIDIA RTX A2000, A3000 mobile, A5000 mobile, A5500 mobile, 4000 SFF Ada NVIDIA T400, T1000	Discrete: NVIDIA RTX A2000 NVIDIA T400, T1000	Integrated: Intel UHD Discrete: NVIDIA RTX A2000, A4000, A4500, A5500, 5000 Ada NVIDIA T400, T1000
Memory Support	Up to 64GB DDR5 5600MHz³ › 2 DIMM Slots (SoDIMM) › 4GB / 8GB / 16GB / 32GB	Up to 128GB DDR5 5600MHz³ › 4 DIMM Slots (SoDIMM) › 8GB / 16GB / 32GB non-ECC 16GB / 32GB ECC	Up to 128GB DDR4 3200MHz › 4 DIMM Slots (UDIMM) › 8GB / 16GB / 32GB3 non-ECC or ECC	Up to 128GB DDR5 5600MHz³ › 4 DIMM Slots (UDIMM) › 8GB / 16GB / 32GB non-ECC 16GB / 32GB ECC
Max Drives	2 Drives	3 Drives	3 Drives	5 Drives 6 Drives
Max Storage¹	Max M.2 = 2 (4TB)	Max M.2 = 2 (8TB) Max 2.5" = 1 (1TB)	Max M.2 = 1 (2TB) Max 3.5" = 2 (8TB)	Max M.2 = 1 (2TB)² Max 2.5" = 4 (4TB) or Max 3.5" = 4 (24TB) 3 (10TB)² 3 (3TB) or 3 (18TB)
Power Supply	170W (90% Efficient) 230W (90% Efficient) 300W (90% Efficient)	170W Slim (90% efficient) 230W (90% efficient) 300W (90% efficient)	300W (90% efficient) 500W (92% efficient) 750W (92% efficient)	500W (92% efficient) 750W (92% efficient) 1100W (92% efficient)
Dimensions (WxDxH)	37 x 182.9 x 179mm 1.5 x 7.2 x 7"	87 x 223 x 202mm 3.4 x 8.7 x 7.9"	170 x 315 x 376mm 6.7 x 12.4 x 14.8"	180 x 370 x 415mm 7.1 x 14.6 x 16.3"



- 1 Any combination of storage to meet your needs
 2 Additional M.2 or Add-in-Card PCIe slots may be required
 3 Memory spec frequency listed; speed may vary by configuration

Lenovo Desktop Workstations

ThinkStation P5



Intel

33 Liter

ThinkStation P620



AMD

33 Liter

ThinkStation P7



Intel

39 Liter

ThinkStation P8 NEU



AMD

39 Liter

ThinkStation PX



Intel

54 Liter

The Future-proof Industry Workhorse

Processor

Intel Xeon W-2400 processor
 › up to 24 cores
 › up to 4.8GHz

Graphics

Discrete:
NVIDIA RTX A2000, A4500, A5500, A6000
 NVIDIA T400, T1000

Memory Support

Up to **512GB DDR5, 4800MHz² ECC**
 › 8 DIMM Slots (RDIMM)
 › 16GB / 32GB / 64GB

Max Storage

6 Drives

Max Drives¹

Max M.2 = 3 (12TB)
Max 3.5" = 3 (36TB)

Power Supply

750W (92% Efficient)
1000W (92% Efficient)

Dimensions (WxDxH)

165 x 453 x 440mm
6.5 x 17.8 x 17.3"

Game Changing Power, and Speed

AMD Ryzen Threadripper PRO
 › up to 64 cores
 › up to 4.5GHz

Discrete:
NVIDIA RTX 4000, 5000, 6000, 8000, A2000, A4000, A4500, A5000, A6000, 6000 Ada
 NVIDIA P1000, T400, T600, T1000

Up to **512GB 3200MHz ECC**
 › 8 DIMM Slots (RDIMM)
 › 16GB / 32GB / 64GB

6 Drives

Max M.2 = 2 (8TB)
Max 3.5" = 4 (40TB)

1000W (92% Efficient)

165 x 460 x 440mm
6.5 x 18.1 x 17.3"

Staggering, Single-Socket Power

Intel Xeon W-3400 processor
 › up to 56 cores
 › up to 4.8GHz

Discrete:
NVIDIA RTX A2000, A4500, A5500, A6000, 6000 Ada
 NVIDIA T400, T1000

Up to **1TB DDR5, 4800MHz² ECC**
 › 8 DIMM Slots (RDIMM)
 › 16GB / 32GB / 64GB / 128GB

6 Drives

7 Drives

Max M.2 = 5 (20TB)
Max 3.5" = 1 (12TB)

1000W (92% Efficient)
1400W (92% Efficient)

175 x 508 x 435mm
6.9 x 20 x 17.1"

Revolutionary Design, Accelerated Power

AMD Ryzen Threadripper PRO 7000 WX-Series Processor
 › up to 96 cores
 › up to 5.1GHz

Discrete:
NVIDIA RTX A4000, A6000, 4000 Ada, 4500 Ada, 5000 Ada, 6000 Ada
 NVIDIA T400, T1000
AMD Radeon PRO W6400, W7600, W7900

Up to **1TB DDR5, 5200MHz ECC³**
 › 8 DIMM Slots
 › 16GB / 32GB / 64GB (RDIMM)
 › 128GB (3DS-RDIMM)

6 Drives

7 Drives

Max M.2 = 5 (20TB)
Max 3.5" = 1 (12TB)

1000W (92% Efficient)
1400W (92% Efficient)

175 x 508 x 435mm
6.9 x 20 x 17.1"

The Pinnacle of Lenovo Technology

Dual 4th Gen Intel Xeon Scalable processors
 › up to 120 cores
 › up to 4.1GHz

Discrete:
NVIDIA RTX A2000, A4500, A5500, A6000, 6000 Ada
 NVIDIA T400, T1000

Up to **2TB DDR5 4800MHz² ECC**
 › 16 DIMM Slots (RDIMM)
 › 16GB / 32GB / 64GB / 128GB

7 Drives

9 Drives

Max M.2 = 3 (12TB)
Max 3.5" = 4 (48TB)

1850W (92% Efficient)
 Optional redundant power supplies

200 x 575 x 435mm
8.7 x 22.6 x 17.1"



1 Depending on configuration
 2 4800MHz max
 3 5200MHz max
 4 Configuration dependent

Lenovo Mobile Workstations

ThinkPad P14s



AMD

ThinkPad P14s i



Intel

ThinkPad P16s



AMD

ThinkPad P16s i



Intel

Lenovo's Best Value Mobile Workstation

Lenovo's Lightest Mobile Workstation

Workstation Power on the go

Performance at the Speed of Life

Processor	AMD Ryzen PRO 7000 Series (5 PRO, 7 PRO) › up to 8 cores › up to 5.1GHz	Intel vPro with 13th Gen Intel Core i5, i7 › up to 14 cores › up to 5.2GHz	AMD Ryzen PRO 7000 Series (5 PRO, 7 PRO) › up to 8 cores › up to 5.1GHz	Intel vPro with 13th Gen Intel Core i5, i7 › up to 14 cores › up to 5.2GHz
Graphics	Processor Integrated: AMD Radeon 700M based on the RDNA 3 Architecture + AMD PRO Graphics Driver	Processor Integrated: Intel Iris Xe¹ Discrete: NVIDIA RTX A500	Processor Integrated: AMD Radeon 700M based on the RDNA 3 Architecture + AMD PRO Graphics Driver	Processor Integrated: Intel Iris Xe¹ Discrete: NVIDIA RTX A500
Memory Support	Up to 64GB LPDDR5x 6400MHz² › 2 Soldered Down › 16GB / 32GB / 64GB (SDRAM)	Integrated Graphics: Up to 48GB DDR5 5200MHz² › 1 Soldered Down / 1 SoDIMM Slot › 8GB / 16GB / 32GB (SDRAM/SoDIMM) Discrete Graphics: Up to 64GB LPDDR5x 4800MHz² › 2 Soldered Down › 16GB / 32GB / 64GB (SDRAM Only)	Up to 64GB LPDDR5x 6400MHz² › 2 Soldered Down › 16GB / 32GB / 64GB (SDRAM)	Integrated Graphics: Up to 48GB DDR5 5200MHz² › 1 Soldered Down / 1 SoDIMM Slot › 16GB (SDRAM), 8GB / 16GB / 32GB (SoDIMM) Discrete Graphics: Up to 64GB LPDDR5x 4800MHz² › 2 Soldered Down › 16GB / 32GB / 64GB (SDRAM Only)
Max Storage	Up to 2TB NVMe PCIe Gen4 SSD	Up to 2TB PCIe Gen4 NVMe SSD	Up to 2TB PCIe Gen4 NVMe SSD	Up to 2TB PCIe Gen4 NVMe SSD
Power Supply	65W AC Adapter Type-C › Rapid Charge	65W or 100W AC Adapter Type-C › Rapid Charge	65W, 100W AC Adaptor Type-C › Rapid Charge	65W, 100W, 135W AC Adapter Type-C › Rapid Charge
Battery	39.3Whr or 52.5Whr	39.3Whr or 52.5Whr	52.5Whr or 86Whr	52.5Whr or 86Whr
Weight Thinness	Starting at: 2.97lbs (1.34kg) 0.7" (17.9mm)	Starting at: 2.97lbs (1.34kg) 0.7" (17.9mm)	Starting at: 3.76lbs (1.7kg) 0.81" (20.5mm)	Starting at: 3.76lbs (1.7kg) 0.81" (20.5mm)
Display	14" 16:10 Display 2.8K OLED (2880 x 1800) › IPS 400nit 1.1t, 100% DCI-P3, X-Rite FCC, AGAR, LBL, Eyesafe* WUXGA (FHD+) (1920 x 1200) › IPS, Touch, 500nit, Privacy Guard, LCLW, 100% sRGB, AG › IPS, 400nit, 100% sRGB, 100% sRGB, ICC Template color calibration, AG, LBL, Eyesafe › IPS, Touch, 300nit, LCLW, 45% CG, AG › IPS, 300nit, 45% CG, AG	14" 16:10 Display 2.8K OLED (2880 x 1800) › IPS 400nit, 100% DCI-P3, X-Rite FCC, AGAR, LBL, Eyesafe FHD+ (2240 x 1400) › IPS, 300nit, 100% sRGB, AG, LBL WUXGA (FHD+) (1920 x 1200) › IPS, Touch, 500nit, Privacy Guard, LCLW, 100% sRGB, AG › IPS, 400nit, 100% sRGB, ICC Template Color Calibration, LBL, AG, Eyesafe › IPS, Touch, 300nit, LCLW, 45% CG, AG › IPS, 300nit, 45% CG, AG	16" 16:10 Display WQUXGA (UHD+) (3840x2400) › OLED, 400nit, 100% DCI-P3, X-Rite FCC, AGAR, LBL, Eyesafe WUXGA (FHD+) (1920 x 1200) › IPS, 400nit, 100% sRGB, ICC Template Color Calibration, AG, LBL, Eyesafe › IPS, Touch, LCLW, 300nit, 45%CG, AG › IPS, 300nit, 45% CG, AG	16" 16:10 Display WQUXGA (UHD+) (3840x2400) › OLED, 400nit, 100% DCI-P3, X-Rite FCC, AGAR, LBL, Eyesafe WUXGA (FHD+) (1920 x 1200) › IPS, 400nit, 100% sRGB, ICC Template Color Calibration, AG, LBL, Eyesafe › IPS, Touch, LCLW, 300nit, 45% CG, AG › IPS, 300nit, 45% CG, AG

1 Dual RAM channel required
2 Memory spec frequency listed; system support frequency may vary by configuration

Lenovo Mobile Workstations

ThinkPad
P16v



AMD

ThinkPad
P16v i



Intel

ThinkPad
P1



Intel

ThinkPad
P16



Intel

Accessible Power

Bringing Mainstream to the Masses

Simply Spectacular

Next Level Power and Performance

Processor	AMD Ryzen PRO 7000 Series (5 PRO, 7 PRO, 9 PRO) › up to 8 cores › up to 5.2GHz	Intel vPro with 13th Gen Intel Core i5, i7, i9 H-Series › up to 14 cores › up to 5.4GHz	Intel vPro with 13th Gen Intel Core i7, i9 H-Series › up to 14 cores › up to 5.4GHz	Intel vPro with 13th Gen Intel Core i5, i7, i9 HX-Series › up to 24 cores › up to 5.6GHz
Graphics	Discrete: NVIDIA RTX A500, A1000, 2000 Ada Processor Integrated: AMD Radeon 700M based on the RDNA 3 Architecture + AMD PRO Graphics Driver	Processor Integrated: Intel Iris Xe¹ Discrete: NVIDIA RTX A500, A1000, 2000 Ada	Discrete: NVIDIA RTX A1000, 2000 Ada, 3500 Ada, 4000 Ada, 5000 Ada NVIDIA GeForce RTX 4060, 4080, 4090	Processor Integrated: Intel UHD Discrete: NVIDIA RTX A1000, 2000 Ada, 3500 Ada, 4000 Ada, 5000 Ada Intel Arc Pro A30M
Memory Support	Up to 64GB DDR5 5600MHz² › 2 SoDIMM Slots › 8GB / 16GB / 32GB	Up to 96GB DDR5 5600MHz² › 2 SoDIMM Slots › 8GB / 16GB / 32GB / 48GB	Up to 96GB DDR5 5600MHz² › 2 SoDIMM Slots › 8GB / 16GB / 32GB / 48GB	Up to 192GB ECC (128GB non-ECC) DDR5 5600MHz² › 4 SoDIMM Slots › 8GB / 16GB / 32GB / 48GB non-ECC › 16GB / 32GB ECC
Max Storage	Up to 4TB PCIe Gen4 NVMe Performance SSD	Up to 4TB PCIe Gen4 NVMe Performance SSD	Up to 8TB M.2 PCIe Gen4 NVMe Performance SSD	Up to 8TB M.2 PCIe Gen4 NVMe Performance SSD
Power Supply	135W Slim, 170W Slim › Rapid Charge	135W Slim, 170W Slim › Rapid Charge	170W Slim, 230W Slim › Rapid Charge	170W Slim, 230W Slim › Rapid Charge
Battery	90WHr	90WHr	90WHr	94WHr
Weight Thickness	Starting at: 4.85lbs (2.20kg) 0.97" (24.66mm)	Starting at: 4.85lbs (2.20kg) 0.97" (24.66mm)	Starting at: 3.92lbs (1.78kg) 0.68" (17.3mm)	Starting at: 6.5lbs (2.95kg) 1.2" (30.23mm)
Display	16" 16:10 Display WQUXGA (UHD+) (3840x2400) › IPS, 800nit, 100% DCI-P3, HDR400, Dolby Vision, X-Rite FCC, AG, LBL, TÜV, Eyesafe WUXGA (FHD+) (1920 x 1200) › IPS, 300nit, 100% sRGB, AG, LBL, TÜV › IPS Touch, 300nit, 45% NTSC, LCLW, AG › IPS, 300nit, 45% NTSC, AG	16" 16:10 Display WQUXGA (UHD+) (3840x2400) › IPS, 800nit, 100% DCI-P3, HDR400, Dolby Vision, X-Rite FCC, AG, LBL, TÜV, Eyesafe WUXGA (FHD+) (1920 x 1200) › IPS, 300nit, 100% sRGB, AG, LBL, TÜV › IPS Touch, 300nit, 45% NTSC, LCLW, AG › IPS, 300nit, 45% NTSC, AG	16" 16:10 Display WQUXGA (UHD+) (3840x2400) › OLED Touch, 400nit, 100% DCI-P3, HDR400, Dolby Vision, X-Rite FCC, Anti-Reflective/Anti-Smudge, LBL, TÜV WQXGA (QHD+) (2560 x 1600) › IPS, 500nit, 100% sRGB, 165Hz, X-Rite FCC, LCLW, AG, LBL, TÜV WUXGA (FHD+) (1920 x 1200) › IPS, 300nit, 100% sRGB, AG, X-Rite FCC, AG, LBL, TÜV	16" 16:10 Display WQUXGA (UHD+) (3840x2400) › OLED Touch, 400nit, 100% DCI-P3, HDR500 True Black, Dolby Vision, X-Rite FCC, Anti-Reflective/Anti-Smudge, LBL, TÜV, Eyesafe › IPS, 800nit, 100% DCI-P3, HDR400, Dolby Vision, X-Rite FCC, AG, LBL, TÜV, Eyesafe WQXGA (QHD+) (2560 x 1600) › IPS, 500nit, 100% sRGB, 165Hz, X-Rite FCC, AG, LBL, TÜV, Eyesafe WUXGA (FHD+) (1920 x 1200) › IPS, 300nit, 100% sRGB, X-Rite FCC, AG, LBL, TÜV, Eyesafe

¹ Dual RAM channel required
² Memory spec frequency listed; system support frequency may vary by configuration

Lenovo Workstations

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Lenovo

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