



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.

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 onboard 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 64GB DDR4 memory.



KEY FEATURES



Intel Xeon E Series or up to 9th Gen Intel Core Series processor



Supports up to 64GB DDR4 memory



Supports up to

NVIDIA Quadro P5000 (TWR) NVIDIA Quadro RTX 4000 (TWR) NVIDIA Quadro 2x P1000 (SFF)



Up to 92% power efficiency



Small Form Factor available to save space



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





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)



Supports up to NVIDIA Quadro RTX 8000 or GV100 Graphics Cards



ThinkStation M.2 Quad Adapter support



690W or 900W power supply (up to 92% efficiency)



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)



Supports up to 2x NVIDIA Quadro RTX 8000 or 3x GV100 Graphics Cards



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

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 maximimum 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 P43s

LENOVO'S LIGHTEST MOBILE WORKSTATION

The ThinkPad P43s, 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 14 hours, the lightweight ThinkPad P43s 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



8th Gen Intel Core i7 processor



NVIDIA Quadro P520 Graphics Card



1 USB Type-C 1 Thunderbolt



14" Display with Dolby Vision HDR with 100% Adobe color



Up to 48GB of DDR4 memory, and 2TB NVMe SSD



Up to 14 hours battery life

ThinkPad P53s

DESIGN THAT DELIVERS ON-THE-GO POWER AND PERFORMANCE

A perfect mix of power and performance, the ThinkPad P53s 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 14-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 P53s is designed to ignite creativity anytime, anywhere.



KEY FEATURES



8th Gen Intel Core i7 processor



NVIDIA Quadro P520 **Graphics Card**



1 USB Type-C 1 Thunderbolt



15" Display, 4K with Dolby Vision HDR with 100% Adobe color



Up to 48GB of DDR4 memory, and 2TB NVMe SSD



Up to 14 hours battery life

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 NVIDIA Quadro T2000 Graphics Card



15.6" Display, 4K OLED Touch with Dolby Vision HDR



Up to 64GB DDR4 Memory, and 4TB NVMe SSD



Dolby Atmos Certified Sound System



Wi-Fi 6

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 featuring Dolby Vision HDR 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



Up to NVIDIA Quadro RTX 5000 Graphics Card



New Slim 230W Power Supply 30% Smaller



15" Display, 4K OLED Touch with Dolby Vision HDR



Up to 128GB DDR4 Memory, and 6TB NVMe SSD



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



Up to NVIDIA Quadro RTX 5000 Graphics Card



Up to 128GB DDR4 Memory, and 6TB NVMe SSD



New Slim 230W Power Supply 30% Smaller



17" Display, 4K with Dolby Vision HDR



Dolby Atmos Certified Sound System Desktop Workstation Comparison Single CPU Systems

ThinkStation P330 Tiny

1 Litre



18 Litre 8.4 Litre



ThinkStation P520c

25 Litre



ThinkStation P520

33 Litre



THE WORLD'S SMALLEST WORKSTATION

Processor

Up to 9th Gen Intel Core i9-9900T

- 8 Core
- 4.4GHz

Graphics Card Intel Integrated HD

NVIDIA Quadro P620, P1000

Memory Support Up to 32GB2 DDR4, 2666MHz 2 DIMM Slots (SoDIMM)

Max Drives

2 Drives

Max Storage¹ Max M.2 = 2 (2TB)

Power Supply 135W / 88% Efficient (external)

POWER OF A WORKSTATION, PRICE OF A DESKTOP

Up to 9th Gen Intel Core i9-9900K

- 8 Core
- 5.0GHz

Intel Integrated HD

NVIDIA Quadro NVS 810*

NVIDIA Quadro P400, P620, P1000, P2000*,

P2200, P4000*, P5000*

NVIDIA Quadro RTX 4000*

*Tower only

Up to 64GB DDR4, 2666MHz 4 DIMM Slots (UDIMM) 4GB / 8GB / 16GB non-ECC

8GB / 16GB ECC

7 Drives (TWR) / 5 Drives (SFF)

Max 3.5'' = 1 (4TB) 3 (12TB)Max 2.5'' = 2 (2TB) 4 (4TB)

Max 2.5'' = 2 (2TB) 4 (4TB)

210W / 85% Efficient - SFF 260W / 92% Efficient - SFF 250W / 92% Efficient - Tower 400W / 92% Efficient - Tower

HIGH PERFORMANCE WITHOUT THE HIGH PRICE

Intel Xeon W Series

- up to 18 cores
- up to 4.5GHz

NVIDIA Quadro NVS 810

NVIDIA Quadro P400, P620, P1000, P2000,

P2200, P4000, P5000

NVIDIA Quadro RTX 4000

Up to 256GB DDR4, 2933MHz ECC 4 DIMM Slots (RDIMM)

8GB / 16GB / 32GB

6 Drives

Max M.2 = $2 (4TB)^2$ Max 3.5" = 4 (16TB)Max 2.5" = 4 (8TB)

500W / 92% Efficient

THE MOST POWERFUL SINGLE CPU WORKSTATION

Intel Xeon W Series

- up to 18 cores
- up to 4.5GHz

NVIDIA Quadro NVS 810

NVIDIA Quadro P400, P620, P1000, P2000,

P2200, P4000, P5000, P6000

NVIDIA Quadro GP100, GV100

NVIDIA Quadro RTX 4000,

5000, 6000

Up to 256GB DDR4, 2933MHz ECC 8 DIMM Slots (RDIMM)

8GB / 16GB / 32GB

8 Drives

Max M.2 = $2 (4TB)^2$

Max 3.5'' = 6 (36TB)Max 2.5'' = 6 (12TB)

690W / 92% Efficient 900W / 92% Efficient

ThinkStation P720

36 Litre



ThinkStation

55 Litre



Desktop Workstation Comparison Dual CPU Systems

ThinkStation P920 Rack



PROFESSIONAL POWER WITH ULTIMATE VERSATILITY

Processor

Dual Intel Xeon Scalable Processor

- up to 24 cores per CPU

- up to 4.4GHz per CPU

Graphics Card NVIDIA Quadro NVS 810

NVIDIA Quadro P400, P620, P1000, P2000,

P2200, P4000, P5000, P6000

NVIDIA Quadro RTX 4000, 5000, 6000, 8000

NVIDIA Quadro GP100, GV100

NVIDIA Tesla M60³

Memory Support Up to 384GB DDR4, 2933MHz⁴ ECC 12 DIMM Slots (RDIMM)

8GB / 16GB / 32GB / 64GB

Max Drives

12 Drives

Max Storage Max M.2 = $2 (4TB)^2$ Max 3.5" = 6 (60TB)

Max 2.5" = 10 (20TB)

Power Supply

690W / 92% Efficient 900W / 92% Efficient

MOST ADVANCED DUAL-PROCESSOR WORKSTATION

Dual Intel Xeon Scalable Processor

- up to 28 cores per CPU

- up to 4.4GHz per CPU

NVIDIA Quadro NVS 810

NVIDIA Quadro P400, P620, P1000, P2000,

P2200, P4000, P5000, P6000

NVIDIA Quadro RTX 4000, 5000,

6000, 8000

NVIDIA Quadro GP100, GV100

NVIDIA Tesla M60³

Up to 2TB DDR4, 2933MHz⁴ ECC 16 DIMM Slots

(supports RDIMM and LRDIMM) 8GB / 16GB / 32GB / 64GB / 128GB

12 Drives

 $Max M.2 = 2 (4TB)^2$

Max 3.5'' = 6 (60TB)

Max 2.5" = 10 (20TB)

1400W / 92% Efficient

SECURITY & EFFICIENCY WITHOUT LIMITS

Dual Intel Xeon Scalable Processor

- up to 28 cores per CPU
- up to 4.4GHz per CPU

NVIDIA Quadro RTX 4000, 5000,

NVIDIA Tesla V100, T4





Up to 3TB DDR4, 2933MHz ECC 24 DIMM Slots (RDIMM/3DS RDIMM) 8GB / 16GB / 32GB / 64GB / 128GB

10 Drives

M.2 SATA = 2 (960GB) Boot Drives Max 3.5" = 8 (112TB)

1+1 Redundent Hot Swap 1100W (230V/115V) Platinum Efficient 1600W (230V) Platinum Efficient

- Any combination of storage to equal Maximur Storage Drives
- 2 Additional M.2 or Add-in-Card PCle SSD drives can be installed via rear PCle adapters
 3 Special Rid Only
- Available on Intel Xeon Gold and Platinum
 CPLIs only



Mobile Workstation Product Comparison











LENOVO'S LIGHTEST MOBILE WORKSTATION

Processor

8th Gen Intel Core i7

- 4 Core

- Up to 4.8GHz

ON-THE-GO POWER AND PERFORMANCE

4K UHD (3840 x 2160) IPS

- 500nit, Dolby Vision HDR

- Touch 250nit, 45% NTSC

FHD (1920 x 1080) IPS

- 250nit, 45% NTSC

NVIDIA Quadro P520

8th Gen Intel Core i7

- 4 Core

- Up to 4.8GHz

15.6" Display

THE MACHINE YOU WANT

9th Gen Intel Xeon E

- 6 Core

- Up to 4.7GHz

9th Gen Intel Core i9

- 8 Core

- Up to 4.8GHz

15.6" Display

4K (3840 x 2160)

- OLED Touch, 400nit, Dolby Vision HDR

 LCD IPS 500nit, Dolby Vision HDR

FHD (1920 x 1080) IPS

- 300nit or 500nit, 72% NTSC

NVIDIA Quadro T1000 NVIDIA Quadro T2000

NEXT-LEVEL POWER AND PERFORMANCE

9th Gen Intel Xeon E

- 6 Core

- Up to 4.7GHz

9th Gen Intel Core i9

- 8 Core

- Up to 4.8GHz

15.6" Display

4K (3840 x 2160)

- OLED Touch, 400nit, Dolby Vision HDR

 LCD IPS 500nit, Dolby Vision HDR

FHD (1920 x 1080) IPS

- 300nit or 500nit, 72% NTSC

NVIDIA Quadro T1000 NVIDIA Quadro T2000 NVIDIA Quadro RTX 3000 NVIDIA Quadro RTX 4000 NVIDIA Quadro RTX 5000

Up to 128GB DDR4 4 SoDIMM Slots 8GB / 16GB / 32GB ECC & non-ECC

Up to 6TB NVMe SSD

90WHr 170W Slim 230W Slim Rapid Charge

Starting at: 5.51lbs (2.5kg) 25mm Thin

MAXIMIZE YOUR CREATIVE SPACE

9th Gen Intel Xeon E

- 6 Core

- Up to 4.7GHz

9th Gen Intel Core i9

- 8 Core

- Up to 4.8GHz

17.3" Display

4K UHD (3840 x 2160) IPS

- 400nits, Dolby Vision HDR

FHD (1920 x 1080) IPS - 300nits, 72% NTSC

NVIDIA Quadro P620 NVIDIA Quadro T2000 NVIDIA Quadro RTX 3000 NVIDIA Quadro RTX 4000 NVIDIA Quadro RTX 5000

Up to 128GB DDR4 4 SoDIMM Slots 8GB / 16GB/ 32GB ECC & non-ECC

Up to 6TB NVMe SSD

99WHr 170W Slim 230W Slim Rapid Charge

Starting at: 7.5lbs (3.4kg) 28mm Thin

Display 14" Display

WQHD (2560 x 1440) IPS - 500nit, Dolby Vision HDR

FHD (1920 x 1080) IPS - 250nit, 45% NTSC

- Touch 300nit, 45% NTSC

- Low Power 400nit, 72% NTSC - Privacy Guard 400nit, 72% NTSC

Graphics Card NVIDIA Quadro P520

SIA Quadro i SZO

Up to 48GB DDR4 1 SoDIMM Slot

8GB / 16GB / 32GB

Max Storage

Memory Support

> Up to 2TB NVMe SSD

Battery Power Supply 50WHr 65W Type-C Rapid Charge

Weight Thinness

Starting at: 3.24lbs (1.47kg) 17.9mm Thin Up to 48GB DDR4 1 SoDIMM Slot 8GB / 16GB / 32GB

> Up to 2TB NVMe SSD

57WHr 65W Type-C Rapid Charge

Starting at: 3.87lbs (1.76kg) 19.1mm Thin Up to 64GB DDR4 2 SoDIMM Slots 8GB / 16GB / 32GB

8GB / 16GB / 32GB ECC & non-ECC

Up to 4TB NVMe SSD

80WHr 135W Slim Rapid Charge

Starting at: 3.74lbs (1.7kg) 18.4mm Thin



Lenovo™ ThinkStation® P Series and ThinkPad® P Series

Lenovo

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