LENOVO WORKSTATIONS

Lenovo ThinkStation P series
and ThinkPad P Series
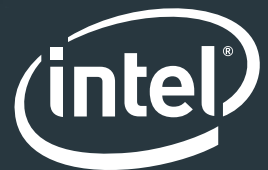
PUSH THE LIMITS OF PRODUCTIVITY, CREATIVITY, AND INNOVATION

Smarter technology for all

Lenovo

ThinkStation®

ThinkPad®

(intel)®

Powered by Intel®

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.

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 Intel Core™ processors. Other features include support for up to 6 independent displays, 64GB DDR4 2666MHz memory, and dual 1TB M.2 NVMe SSDs.

intel CORE i9 9th Gen

Intel® Core™ i9 processor

RECOMMENDED MONITOR:

With its QHD 27" monitor and USB Type-C connectivity, the ThinkVision P27h monitor provides superb color and smart docking, so you can get productive in multi-screen settings.
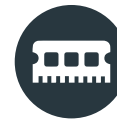
RECOMMENDED GRAPHICS CARD:

Thanks to the NVIDIA® Quadro® P1000 graphics, you can connect up to six individual displays, for maximum efficiency. Boasting top performance features and stability for professional apps.

KEY FEATURES

Up to NVIDIA Quadro P1000 Graphics Card

Supports up to 64GB DDR4 2666MHz memory

Full ecosystem of Tiny accessories including Tiny-in-One

Dual M.2 PCIe NVMe storage up to 2TB

Up to 9th Intel Core i9 processor

Front Type-C port available

Lenovo

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
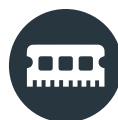
Intel® Xeon® processor

RECOMMENDED MONITOR:

Unlock your ultimate productivity power with ThinkVision P27q Monitor. Enjoy a 27" display with QHD resolution for exquisite color accuracy, in an impressively wide viewing angle.

RECOMMENDED GRAPHICS CARD:

With NVIDIA® Quadro RTX™ graphics, you're VR ready and on track to unparalleled performance. No task is too big, no simulation too challenging, and no project will remain unrendered.
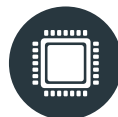
KEY FEATURES

Up to NVIDIA Quadro P1000 Graphics Card

Small Form Factor available to save space

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

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

FLEX Module enabled (TWR)

Up to 92% power efficiency

Lenovo

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.

Intel® Xeon® processor
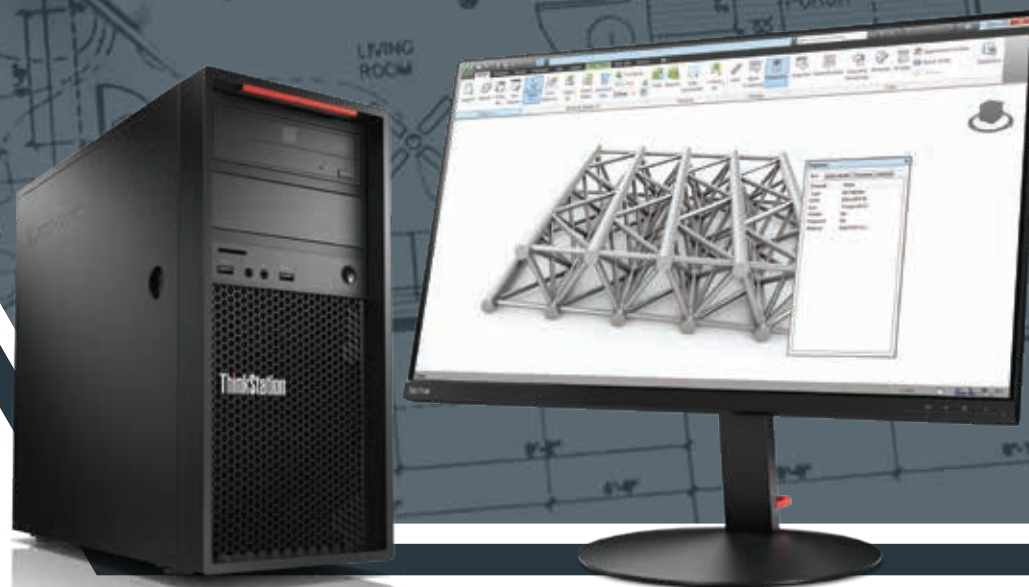
RECOMMENDED MONITOR:

Bring your visions to life with the ThinkVision P32u monitor! Engineered for precision, its 32-inch near edgeless 4K display provides both stunning clarity and ultrafast connectivity with Thunderbolt™ 3 port.
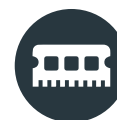
RECOMMENDED GRAPHICS CARD:

With NVIDIA® Quadro RTX™ graphics, you're VR ready and on track to unparalleled performance. No task is too big, no simulation too challenging, and no project will remain unrendered.

KEY FEATURES

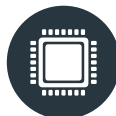Supports up to NVIDIA Quadro RTX 4000 or P5000 Graphics Cards

256GB DDR4 2933Mhz, ECC Memory

Up to 6 total drives, including dual M.2 support

4 PCIe slots on compact chassis

Intel Xeon W Series processor (up to 18 cores, up to 4.5GHz)

500W power supply (up to 92% efficiency)

Lenovo

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.

Intel® Xeon® processor
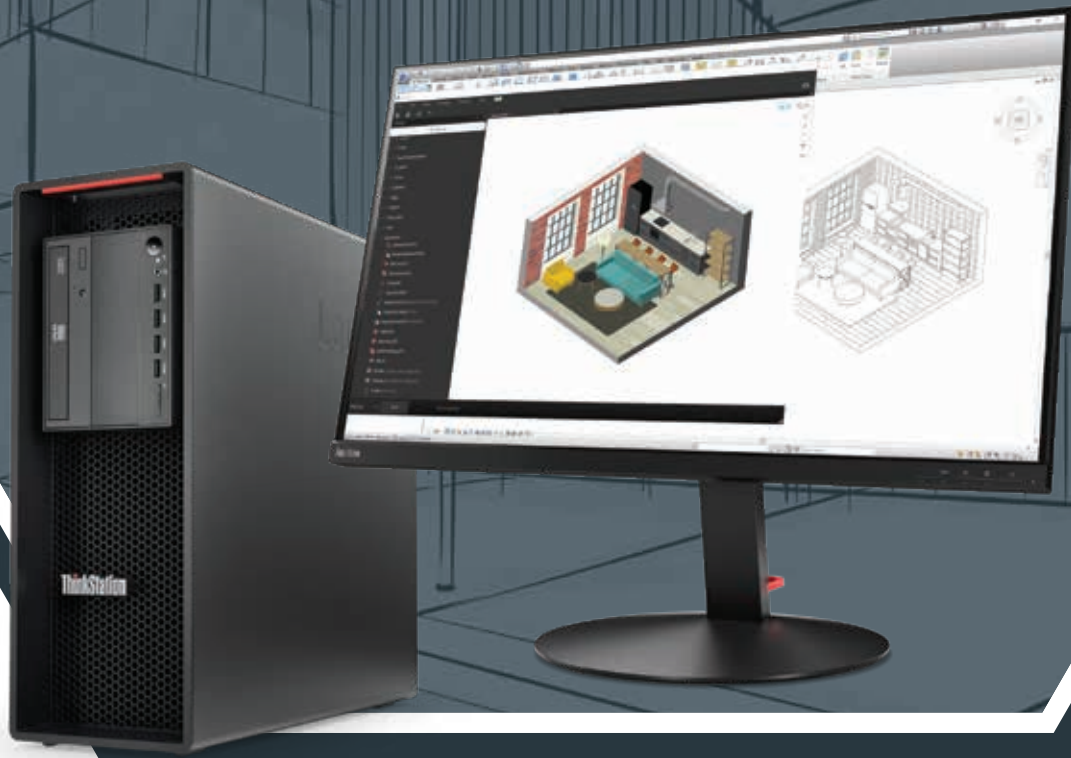
RECOMMENDED MONITOR:

Bring your visions to life with the ThinkVision P32u monitor! Engineered for precision, its 32-inch near edgeless 4K display provides both stunning clarity and ultrafast connectivity with Thunderbolt™ 3 port.

RECOMMENDED GRAPHICS CARD:

With NVIDIA® Quadro RTX™ graphics, you're VR ready and on track to unparalleled performance. No task is too big, no simulation too challenging, and no project will remain unrendered.

KEY FEATURES

Supports up to NVIDIA Quadro RTX 8000 or GV100 Graphics Cards

ThinkStation M.2 Quad Adapter support

Up to 8 total drives for ultimate flexibility

Support for 10GB Aquantia networking card

Intel Xeon W Series processor (up to 18 cores, up to 4.5GHz)

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

Lenovo

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.

Intel® Xeon® processor

RECOMMENDED MONITOR:

Redefine productivity with the ThinkVision P44w ultra-wide monitor. Its 44" curved display is the perfect canvas for animating, data analyzing or multitasking, offering a two-screen experience in one.

RECOMMENDED GRAPHICS CARD:

With NVIDIA® Quadro RTX™ graphics, you're VR ready and on track to unparalleled performance. No task is too big, no simulation too challenging, and no project will remain unrendered.
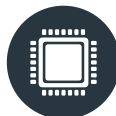
KEY FEATURES

Supports up to NVIDIA Quadro RTX 8000 or dual GV100 Graphics Cards

FLEX Module, FLEX Drive and Blind Connect HDDs

Dual Intel Xeon Scalable Processors (up to 24 cores, up to 4.4GHz per CPU)

Most storage capacity in its class

Utilize smartphone app for system diagnostic information

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

Lenovo

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.

Intel® Xeon® processor

RECOMMENDED MONITOR:

Redefine productivity with the ThinkVision P44w ultra-wide monitor. Its 44" curved display is the perfect canvas for animating, data analyzing or multitasking, offering a two-screen experience in one.

RECOMMENDED GRAPHICS CARD:

With NVIDIA® Quadro RTX™ graphics, you're VR ready and on track to unparalleled performance. No task is too big, no simulation too challenging, and no project will remain unrendered.

KEY FEATURES

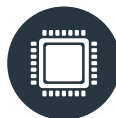Supports up to 2x NVIDIA Quadro RTX 8000 or 3x GV100 Graphics Cards

Utilize smartphone app for system diagnostic information

FLEX Module, FLEX Drive and Blind Connect HDDs

Most storage capacity in the industry

Dual Intel Xeon Scalable Processors (up to 28 cores, up to 4.4GHz per CPU)

1400W power supply (92% efficiency)

Lenovo

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.

Intel® Xeon® processor

RECOMMENDED GRAPHICS CARD:

With NVIDIA® Quadro RTX™ graphics, you're VR ready and on track to unparalleled performance. No task is too big, no simulation too challenging, and no project will remain unrendered.
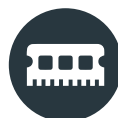
KEY FEATURES
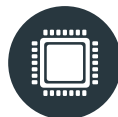
Up to 112TB of Enterprise Storage

Up to 3TB of DDR4-2933MHz ECC Memory

Intel Xeon 2nd Scalable Processors

1+1 Hot Swap & Redundant Features

Full Remote Management

Powerful NVIDIA Quadro RTX Graphics

Lenovo

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.

RECOMMENDED MONITOR:

Redefine productivity with the ThinkVision P44w ultra-wide monitor. Its 44" curved display is the perfect canvas for animating, data analyzing or multitasking, offering a two-screen experience in one.

RECOMMENDED DOCKING STATION:

Never leave home without the ThinkPad Thunderbolt 3 WorkStation Dock. Thanks to its Intel Thunderbolt technology, it can charge your workstation and seamlessly connect to multiple peripherals at once.

RECOMMENDED ACCESSORY:

The Lenovo 15.6" Commuter Backpack was perfectly engineered to offer the modern professional everything needed on the weekdays and the weekend too: lightweight, waterproof fabric plus versatile features.

intel CORE i7 8th Gen

Intel® Core™ i7 processor

KEY FEATURES

- NVIDIA Quadro P520 Graphics Card
- 1 USB Type-C 1 Thunderbolt
- Up to 48 GB of DDR4 memory, and 2TB NVMe SSD
- Up to 14 hours battery life
- 8th Intel Core i7 processor
- WQHD 14" Display with Dolby Vision HDR with 100% Adobe color

Lenovo

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.

RECOMMENDED MONITOR:

Redefine productivity with the ThinkVision P44w ultra-wide monitor. Its 44" curved display is the perfect canvas for animating, data analyzing or multitasking, offering a two-screen experience in one.

RECOMMENDED DOCKING STATION:

Never leave home without the ThinkPad Thunderbolt 3 WorkStation Dock. Thanks to its Intel Thunderbolt technology, it can charge your workstation and seamlessly connect to multiple peripherals at once.

RECOMMENDED ACCESSORY:

The Lenovo 15.6″ Commuter Backpack was perfectly engineered to offer the modern professional everything needed on the weekdays and the weekend too: lightweight, waterproof fabric plus versatile features.
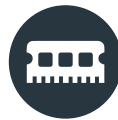
Intel® Core™ i7 processor

KEY FEATURES

NVIDIA Quadro P520 Graphics Card

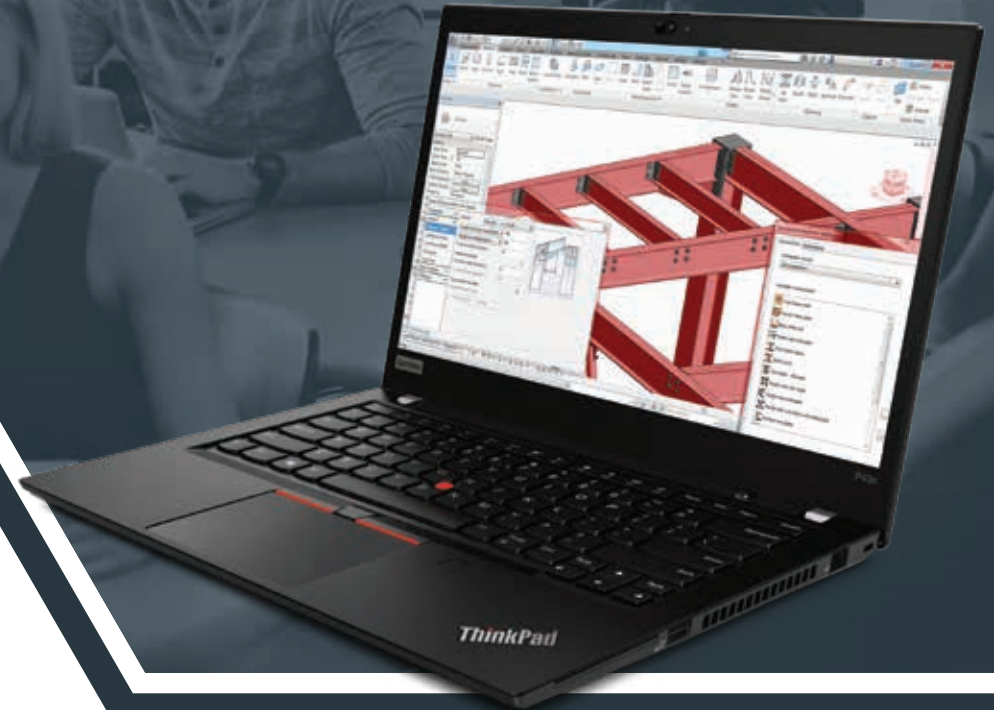Up to 48 GB of DDR4 memory, and 2TB NVMe SSD
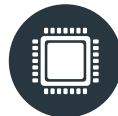
8th Intel Core i7 processor

1 USB Type-C
1 Thunderbolt

Up to 14 hours battery life

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

Lenovo

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, 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 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 anythingless than an ultra-premium must-have.

RECOMMENDED MONITOR:

Redefine productivity with the ThinkVision P44w ultra-wide monitor. Its 44" curved display is the perfect canvas for animating, data analyzing or multitasking, offering a two-screen experience in one.

RECOMMENDED DOCKING STATION:

Never leave home without the ThinkPad Thunderbolt 3 WorkStation Dock. Thanks to its Intel Thunderbolt technology, it can charge your workstation and seamlessly connect to multiple peripherals at once.

RECOMMENDED ACCESSORY:

The Lenovo 15.6" Commuter Backpack was perfectly engineered to offer the modern professional everything needed on the weekdays and the weekend too: lightweight, waterproof fabric plus versatile features.
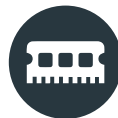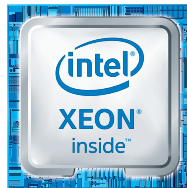
intel XEON® inside™

Intel® Xeon® processor

KEY FEATURES

Up to NVIDIA Quadro T2000 Graphics Card

15.6" Display, 4K OLED Touch HDR500 True Black

DOLBY ATMOS — Dolby Atmos Certified Sound System

WiFi — Wi-Fi 6

9th Intel Xeon and Core processors
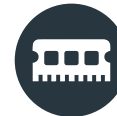
Up to 64GB DDR4 Memory, and 4TB NVMe SSD

Lenovo

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 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.

RECOMMENDED MONITOR:

Redefine productivity with the ThinkVision P44w ultra-wide monitor. Its 44" curved display is the perfect canvas for animating, data analyzing or multitasking, offering a two-screen experience in one.

RECOMMENDED DOCKING STATION:

Never leave home without the ThinkPad Thunderbolt 3 WorkStation Dock. Thanks to its Intel Thunderbolt technology, it can charge your workstation and seamlessly connect to multiple peripherals at once.

RECOMMENDED ACCESSORY:

The Lenovo 15.6" Commuter Backpack was perfectly engineered to offer the modern professional everything needed on the weekdays and the weekend too: lightweight, waterproof fabric plus versatile features.
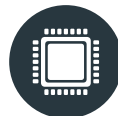
Intel® Xeon® processor

KEY FEATURES

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

Lenovo

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 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.

RECOMMENDED MONITOR:

Redefine productivity with the ThinkVision P44w ultra-wide monitor. Its 44" curved display is the perfect canvas for animating, data analyzing or multitasking, offering a two-screen experience in one.

RECOMMENDED DOCKING STATION:

Never leave home without the ThinkPad Thunderbolt 3 WorkStation Dock. Thanks to its Intel Thunderbolt technology, it can charge your workstation and seamlessly connect to multiple peripherals at once.

RECOMMENDED ACCESSORY:

The Lenovo 15.6" Commuter Backpack was perfectly engineered to offer the modern professional everything needed on the weekdays and the weekend too: lightweight, waterproof fabric plus versatile features.
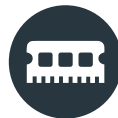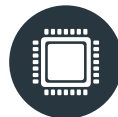

Intel® Xeon® processor

KEY FEATURES

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

Lenovo

Desktop Workstation Comparison
Single CPU Systems

	ThinkStation P330 Tiny	**ThinkStation P330** (TWR & SFF)	**ThinkStation P520c**	**ThinkStation P520**
	1 Litre	18 Litre / 8.4 Litre	25 Litre	33 Litre
	THE WORLD'S SMALLEST WORKSTATION	**POWER OF A WORKSTATION, PRICE OF A DESKTOP**	**HIGH PERFORMANCE WITHOUT THE HIGH PRICE**	**THE MOST POWERFUL SINGLE CPU WORKSTATION**
Processor	Up to 9th Intel Core i9-9900T - 8 Core - 4.4GHz	Up to 9th Intel Core i9-9900K - 8 Core - 5.0GHz	Intel Xeon W Series - up to 18 cores - up to 4.5GHz	Intel Xeon W Series - up to 18 cores - up to 4.5GHz
Graphics Card	Intel Integrated HD NVIDIA Quadro P620, P1000	Intel Integrated HD NVIDIA Quadro NVS 810* NVIDIA Quadro P400, P620, P1000, P2000*, P2200, P4000*, P5000* NVIDIA Quadro RTX 4000* *Tower only	NVIDIA Quadro P400, P620, P1000, P2000, P2200, P4000, P5000 NVIDIA Quadro RTX 4000	NVIDIA Quadro P400, P620, P1000, P2000, P2200, P4000, P5000, P6000 NVIDIA Quadro GP100, GV100 NVIDIA Quadro RTX 4000, 5000, 6000
Memory Support	Up to 64GB DDR4, 2666MHz 2 DIMM Slots (SoDIMM)	Up to 128GB DDR4, 2666MHz 4 DIMM Slots (UDIMM) 4GB / 8GB / 16GB / 32GB non-ECC 8GB / 16GB ECC	Up to 256GB DDR4, 2933MHz ECC 4 DIMM Slots (RDIMM) 8GB / 16GB / 32GB	Up to 256GB DDR4, 2933MHz ECC 8 DIMM Slots (RDIMM) 8GB / 16GB / 32GB
Max Drives	2 Drives	7 Drives (TWR) / 5 Drives (SFF)	6 Drives	8 Drives
Max Storage[1]	Max M.2 = 2 (2TB)	SFF TWR Max M.2 = 3 (3TB) 3 (3TB) Max 3.5" = 1 (4TB) 3 (12TB) Max 2.5" = 2 (2TB) 4 (4TB)	Max M.2 = 2 (4TB)[2] Max 3.5" = 4 (16TB) Max 2.5" = 4 (8TB)	Max M.2 = 2 (4TB)[2] Max 3.5" = 6 (36TB) Max 2.5" = 6 (12TB)
Power Supply	135W / 88% Efficient (external)	210W / 85% Efficient - SFF 260W / 92% Efficient - SFF 250W / 92% Efficient - Tower 400W / 92% Efficient - Tower	500W / 92% Efficient	690W / 92% Efficient 900W / 92% Efficient

ThinkStation

Desktop Workstation Comparison
Dual CPU Systems

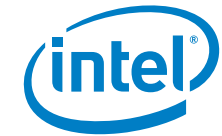|	**ThinkStation P720**	**ThinkStation P920**	**ThinkStation P920 Rack**
	36 Litre	55 Litre	
	PROFESSIONAL POWER WITH ULTIMATE VERSATILITY	**MOST ADVANCED DUAL-PROCESSOR WORKSTATION**	**SECURITY & EFFICIENCY WITHOUT LIMITS**
Processor	Dual Intel Xeon Scalable Processor - up to 24 cores per CPU - up to 4.4GHz per CPU	Dual Intel Xeon Scalable Processor - up to 28 cores per CPU - up to 4.4GHz per CPU	Dual Intel Xeon Scalable Processor - up to 28 cores per CPU - up to 4.4GHz per CPU
Graphics Card	NVIDIA Quadro P400, P620, P1000, P2000, P2200, P4000, P5000, P6000 NVIDIA Quadro RTX 4000, 5000, 6000, 8000 NVIDIA Quadro GP100, GV100 NVIDIA Tesla M60[3]	NVIDIA Quadro P400, P620, P1000, P2000, P2200, P4000, P5000, P6000 NVIDIA Quadro RTX 4000, 5000, 6000, 8000 NVIDIA Quadro GP100, GV100 NVIDIA Tesla M60[3]	NVIDIA Quadro RTX 4000, 5000, NVIDIA Tesla V100, T4
Memory Support	Up to 384GB DDR4, 2933MHz[4] ECC 12 DIMM Slots (RDIMM) 8GB / 16GB / 32GB / 64GB	Up to 2TB DDR4, 2933MHz[4] ECC 16 DIMM Slots (supports RDIMM and LRDIMM) 8GB / 16GB / 32GB / 64GB / 128GB	Up to 3TB DDR4, 2933MHz ECC 24 DIMM Slots (RDIMM/3DS RDIMM) 8GB / 16GB / 32GB / 64GB / 128GB
Max Drives	12 Drives	12 Drives	10 Drives
Max Storage	Max M.2 = 2 (4TB)[2] Max 3.5" = 6 (60TB) Max 2.5" = 10 (20TB)	Max M.2 = 2 (4TB)[2] Max 3.5" = 6 (60TB) Max 2.5" = 10 (20TB)	M.2 SATA = 2 (960GB) Boot Drives Max 3.5" = 8 (112TB)
Power Supply	690W / 92% Efficient 900W / 92% Efficient	1400W / 92% Efficient	1+1 Redundent Hot Swap 1100W (230V/115V) Platinum Efficient 1600W (230V) Platinum Efficient

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

intel

NVIDIA

Lenovo

ThinkStation

Mobile Workstation Product Comparison

	ThinkPad P43s	**ThinkPad P53s**	**ThinkPad P1**	**ThinkPad P53**	**ThinkPad P73**
	LENOVO'S LIGHTEST MOBILE WORKSTATION	ON-THE-GO POWER AND PERFORMANCE	THE POWER YOU NEED, THE MACHINE YOU WANT	NEXT-LEVEL POWER AND PERFORMANCE	MAXIMIZE YOUR CREATIVE SPACE
Processor	8th Intel Core i7 - 4 Core - Up to 4.8GHz	8th Intel Core i7 - 4 Core - Up to 4.8GHz	9th Intel Xeon E - 6 Core - Up to 4.7GHz 9th Intel Core i9 - 8 Core - Up to 4.8GHz	9th Intel Xeon E - 6 Core - Up to 4.7GHz 9th Intel Core i9 - 8 Core - Up to 4.8GHz	9th Intel Xeon E - 6 Core - Up to 4.7GHz 9th Intel Core i9 - 8 Core - Up to 4.8GHz

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
		15.6" Display
		4K UHD (3840 x 2160) IPS
		- 500nit, Dolby Vision HDR
		FHD (1920 x 1080) IPS
		- Touch 250nit, 45% NTSC
		- 250nit, 45% NTSC
			15.6" Display
			4K (3840 x 2160)
			- OLED Touch,
			  HDR500 True Black
			- LCD IPS 500nit,
			  Dolby Vision HDR
			FHD (1920 x 1080) IPS
			- 300nit or 500nit, 72% NTSC
				15.6" Display
				4K (3840 x 2160)
				- OLED Touch,
				  HDR500 True Black
				- LCD IPS 500nit,
				  Dolby Vision HDR
				FHD (1920 x 1080) IPS
				- 300nit or 500nit, 72% NTSC
					17.3" Display
					4K UHD (3840 x 2160) IPS
					- 400nits, Dolby Vision HDR
					FHD (1920 x 1080) IPS
					- 300nits, 72% NTSC

Graphics Card	NVIDIA Quadro P520	NVIDIA Quadro P520	NVIDIA Quadro T1000 NVIDIA Quadro T2000	NVIDIA Quadro T1000 NVIDIA Quadro T2000 NVIDIA Quadro RTX 3000 NVIDIA Quadro RTX 4000 NVIDIA Quadro RTX 5000	NVIDIA Quadro P620 NVIDIA Quadro T2000 NVIDIA Quadro RTX 3000 NVIDIA Quadro RTX 4000 NVIDIA Quadro RTX 5000
Memory Support	Up to 48GB DDR4 1 SoDIMM Slot 8GB / 16GB / 32GB	Up to 48GB DDR4 1 SoDIMM Slot 8GB / 16GB / 32GB	Up to 64GB DDR4 2 SoDIMM Slots 8GB / 16GB / 32GB ECC & non-ECC	Up to 128GB DDR4 4 SoDIMM Slots 8GB / 16GB / 32GB ECC & non-ECC	Up to 128GB DDR4 4 SoDIMM Slots 8GB / 16GB/ 32GB ECC & non-ECC
Max Storage	Up to 2TB NVMe SSD	Up to 2TB NVMe SSD	Up to 4TB NVMe SSD	Up to 6TB NVMe SSD	Up to 6TB NVMe SSD
Battery Power Supply	50WHr 65W Type-C Rapid Charge	57WHr 65W Type-C Rapid Charge	80WHr 135W Slim Rapid Charge	90WHr 170W Slim 230W Slim Rapid Charge	99WHr 170W Slim 230W Slim Rapid Charge
Weight Thinness	Starting at: 3.24lbs (1.47kg) 17.9mm Thin	Starting at: 3.87lbs (1.76kg) 19.1mm Thin	Starting at: 3.74lbs (1.7kg) 18.4mm Thin	Starting at: 5.51lbs (2.5kg) 25mm Thin	Starting at: 7.5lbs (3.4kg) 28mm Thin

Lenovo

ThinkPad

Lenovo™ ThinkStation® P Series and ThinkPad® P Series

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