Lenovo™ ThinkStation® P Series
and ThinkPad® P Series

PUSH THE LIMITS OF PRODUCTIVITY, CREATIVITY, AND INNOVATION

Lenovo™

ThinkStation.

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.

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® Quadro® 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 Quadro GPUs for maximum 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 P340 Tiny

THE WORLD'S SMALLEST WORKSTATION

The ThinkStation P340 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.

The P340 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 P340 Tiny is an ISV-certified professional workstation with the latest 10th Gen Intel Core™ processors. Other features include support for up to six independent displays, 64GB DDR4 2933MHz memory, and dual 2TB M.2 PCIe NVMe SSDs.

KEY FEATURES
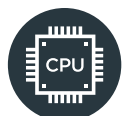
Up to 10th Gen Intel Core i9 processor

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 2933MHz memory

Dual M.2 PCIe NVMe SSDs up to 4TB

Lenovo™

ThinkStation P340

POWER OF A WORKSTATION, PRICE OF A DESKTOP

Mission-critical tasks require superior reliability and powerful performance. The ThinkStation P340 leads on both counts and does it with exceptional all-around value. The new, smaller workstation (17L TWR, 8.2L SFF) 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 P340 also offers a breakthrough, entry-level way to create and consume VR. The P340 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
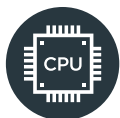
Intel Xeon W Series or up to 10th Gen Intel Core Series processor

Supports up to 128GB DDR4 2933MHz memory

Supports up to
NVIDIA Quadro RTX 5000 (TWR)
NVIDIA Quadro 2x P1000 (SFF)

Up to 92% power efficiency

Small Form Factor available to save space

FLEX Module enabled (TWR)

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. The P520c includes 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, the 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.
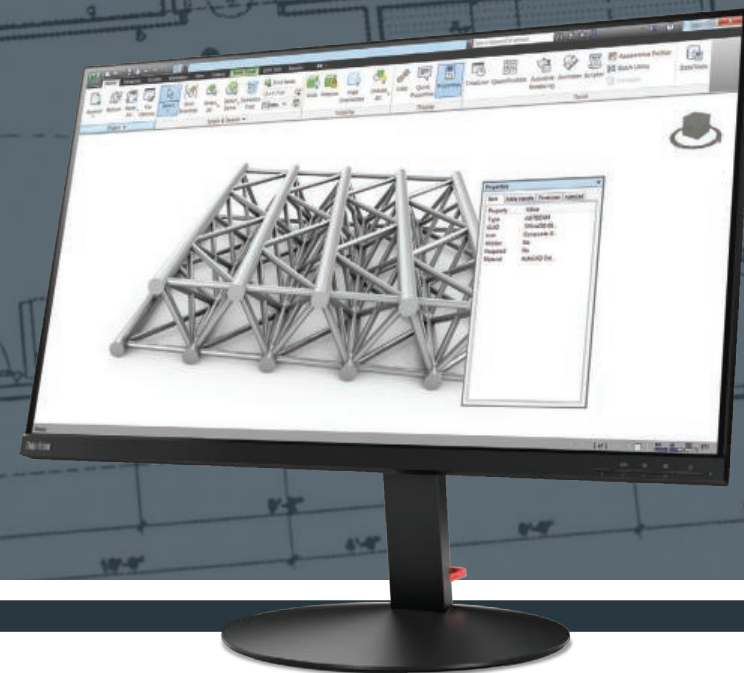
KEY FEATURES
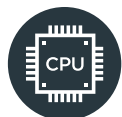
Intel Xeon W Series processor
(up to 18 cores, up to 4.7GHz)

Supports up to
NVIDIA Quadro RTX 5000
or P5000 Graphics Cards

256GB DDR4 2933MHz
ECC memory

625W power supply
(up to 92% efficiency)

Up to 6 total drives,
including up to 5 M.2*

4 PCIe slots on compact chassis

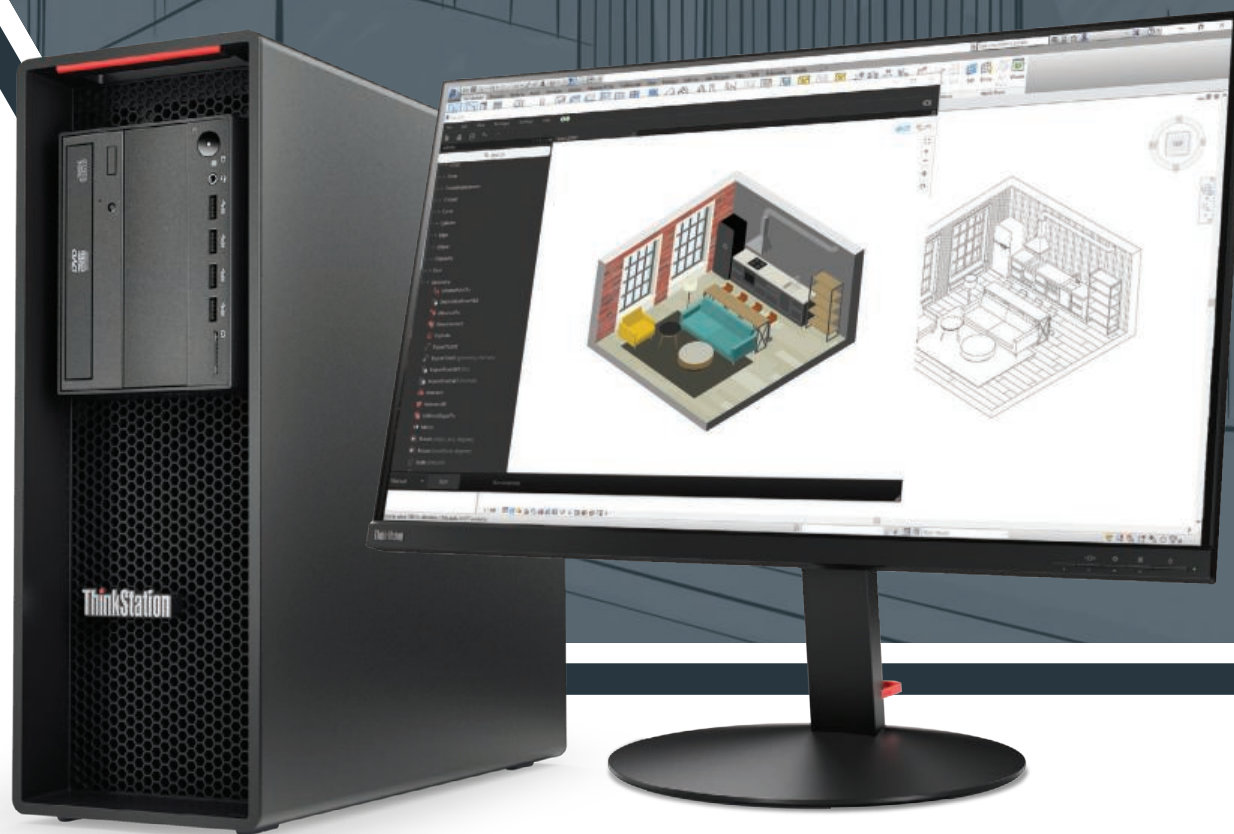* Requires M.2 PCIe carrier adapters
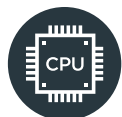
ThinkStation P520

VERSATILE WORKSTATION CONFIGURED YOUR WAY

Our most powerful Intel Xeon 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

CPU Intel Xeon W Series processor (up to 18 cores, up to 4.7GHz)

690W or 1000W power supply (up to 92% efficiency)

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

Up to 8 total drives for ultimate flexibility

M.2 ThinkStation M.2 Quad Adapter support

Support for 10GB Aquantia networking card

Lenovo™

ThinkStation P620

## GAME CHANGING POWER, RELIABILITY, AND SPEED

Introducing the new ThinkStation P620. The first ever AMD Ryzen™ Threadripper™ PRO powered workstation offers stunning performance with up to 64 cores and up to 4.0GHz. Perfect for those who demand more power for today's multithreaded applications, the P620 combines Lenovo's legendary reliability and customer-driven innovation with professional manageability and enterprise-class support.

Purpose built with the speed and configurability you crave, this powerhouse is the first and only workstation offering PCIe Gen 4, unmatched NVIDIA Quadro RTX graphics support, as well as increased storage speed and expandable memory. Ideal for power users in Media & Entertainment, AEC, Oil & Gas, Finance, and beyond, the ThinkStation P620 provides the ground-breaking performance you need to blaze your own trail.

AMD THREADRIPPER PRO

KEY FEATURES
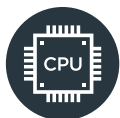
AMD Ryzen Threadripper PRO Processor (up to 64 cores; up to 4.0GHz)

Up to 20TB of storage

Up to 2 NVIDIA Quadro RTX 8000 Graphics Cards

Gen 4 support for PCIe slots and M.2 storage

Up to 512GB DDR4 3200MHz memory

Air cooled thermals

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 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
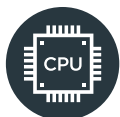
Dual Intel Xeon Scalable Processors (up to 24 cores per CPU, up to 4.0GHz per CPU)

690W or 1000W power supply (up to 92% efficiency)

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

FLEX Module, FLEX Drive, and Blind Connect HDDs

Most storage capacity in its class

Utilize smartphone app for system diagnostic information

Lenovo™

ThinkStation P920

## MOST ADVANCED DUAL-PROCESSOR WORKSTATION

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, 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.
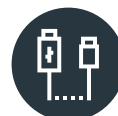
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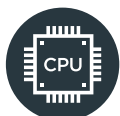
Dual Intel Xeon Scalable Processors
(up to 28 cores per CPU,
up to 4.0GHz per CPU)

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

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.
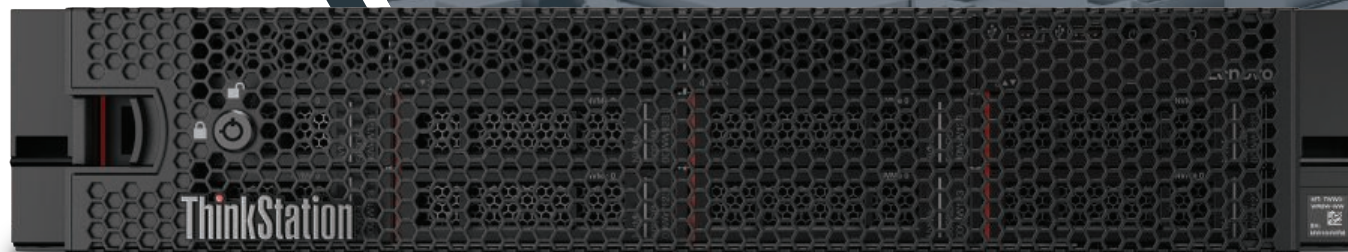
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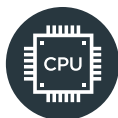
Intel Xeon 2nd Gen Scalable Processors (up to 28 cores per CPU, up to 4.0GHz per CPU)

Supports NVIDIA Quadro RTX, NVIDIA® Tesla® V100, and NVIDIA Tesla T4 graphics

Up to 112TB of Enterprise Storage

Up to 3TB of DDR4 2933MHz ECC Memory

1+1 Hot Swap & Redundant Features

Full Remote Management

Lenovo™

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.
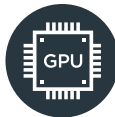
Perfect for on the move, with a battery that runs up to 15 hours, the lightweight P14s practically begs to accompany you everywhere. And with the option of a privacy guard display, this workstation has you protected from every angle—giving you the freedom to innovate fearlessly anytime, anywhere.
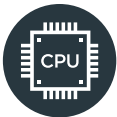
KEY FEATURES

CPU Up to 10th Gen Intel Core i7 processor

GPU NVIDIA Quadro P520 Graphics Card

1 USB Type-C
1 Thunderbolt

UHD 14" HDR 400 Display with Dolby Vision™ HDR

Up to 48GB DDR4 memory and 2TB NVMe SSD

Up to 15 hours battery life*

Lenovo™

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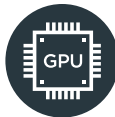
Created with students, architects, and engineers in mind, the P15s is designed to ignite creativity anytime, anywhere.
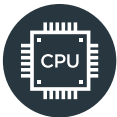
KEY FEATURES

CPU Up to 10th Gen Intel Core i7 processor

GPU NVIDIA Quadro P520 Graphics Card

1 USB Type-C
1 Thunderbolt

UHD 15.6" HDR 400 Display with Dolby Vision HDR

Up to 48GB DDR4 memory and 2TB NVMe SSD

Up to 16 hours battery life*

Lenovo™

ThinkPad P15v

VALUE WITHOUT COMPROMISE

Built for creators who demand more value, the budget-friendly ThinkPad P15v offers the power you need from a mobile workstation at an affordable price.

Packed with the latest Intel Core or Xeon processors, NVIDIA Quadro professional graphics, and a 4K UHD[1] display, the P15v delivers a fast and visually stunning representation of your work. MIL-SPEC tested[2] and equipped with the comprehensive ThinkShield Security Suite, this workhorse provides a rugged, secure system ideal for Higher Education and Software Developers.

With Wi-Fi 6 and WWAN[1] connectivity options, Dolby Audio software support, and up to 4TB of storage, the P15v is perfect for any user who needs a robust, reliable system at an accessible price point.

KEY FEATURES
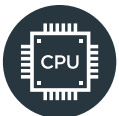
CPU — 10th Gen Intel Core and Xeon H Series processors
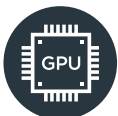
GPU — Up to NVIDIA Quadro P620 Graphics Card

UHD — UHD with HDR 400 Display with Dolby Vision HDR and X-Rite color calibration

Up to 64GB DDR4 Memory

M.2 — Up to 4TB M.2 PCIe NVMe SSD Storage

Intel Thunderbolt™ 3

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 Gen 3, the answer can be both. With the perfect combination of workstation know-how, ultra-premium stylish design, and true mobility, the P1 removes the tradeoff between looks and power.

Built with the latest 10th Gen Intel Xeon and Core processors and NVIDIA Quadro graphics, the P1 is the solution for users looking for both style and power. 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
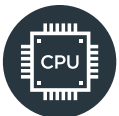
CPU
10th Gen Intel Core and Intel H Series processors
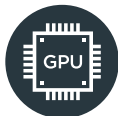
GPU
Up to NVIDIA Quadro T2000 Graphics Card

4K
15.6" Display, 4K OLED Touch HDR500 True Black

Up to 64GB DDR4 Memory and 4TB NVMe SSD

DOLBY ATMOS
Dolby Atmos® Certified Sound System

WiFi
Wi-Fi 6

Lenovo™

ThinkPad P15

UNLOCK ULTIMATE POWER CONFIGURED YOUR WAY

The ThinkPad P15 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 10th Gen Intel Core and Xeon processors and NVIDIA Quadro RTX 5000 graphics, the P15 raises the bar for workstation power.

Perfect for engineers, architects, and designers, the P15 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 UHD OLED display, HDR500 True Black and up to 4TB of PCIe NVMe SSD storage, the P15 sets a new standard for mobile workstations.

KEY FEATURES

10th Gen Intel Core and Xeon H Series processors
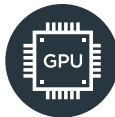
Up to NVIDIA Quadro RTX 5000 Graphics Card

170W or 230W Slim Power Supply

15" Display, UHD OLED Touch HDR500 True Black

Up to 128GB DDR4 Memory and 4TB NVMe SSD

Dolby Atmos Certified Sound System

Lenovo

ThinkPad P17

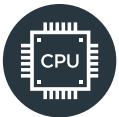## MAXIMIZE YOUR CREATIVE SPACE

The ThinkPad P17 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 10th Gen Intel Core and Xeon processors and the powerful NVIDIA Quadro RTX 5000 graphics.

Boasting an impressive 17-inch UHD display with Dolby Vision HDR, the P17 is perfect for multi-window applications and split screen multi-tasking, enabling you to maximize your productivity.

KEY FEATURES

CPU 10th Gen Intel Core and Xeon H Series processors

GPU Up to NVIDIA Quadro RTX 5000 Graphics Card

Up to 128GB DDR4 Memory, and 4TB NVMe SSD

170W or 230W Slim Power Supply

UHD 17" Display, UHD with Dolby Vision HDR

DOLBY ATMOS Dolby Atmos Certified Sound System

Lenovo™

Desktop Workstation Comparison

	ThinkStation P340 Tiny	ThinkStation P340 (TWR & SFF)	ThinkStation P520c	ThinkStation P520
	1 Liter	17 Liter / 8.2 Liter	25 Liter	33 Liter
	THE WORLD'S SMALLEST WORKSTATION	**POWER OF A WORKSTATION, PRICE OF A DESKTOP**	**MAINSTREAM WORKSTATION ON A BUDGET**	**VERSATILE WORKSTATION CONFIGURED YOUR WAY**
Processor	Up to 10th Gen Intel Core i9 - up to 10 cores - up to 5.1GHz	Up to 10th Gen Intel Core i9 - up to 10 cores, 5.1GHz (SFF) - up to 10 cores, 5.2GHz (TWR) Intel Xeon W Series - up to 10 cores, 5.0GHz (SFF) - up to 10 cores, 5.2GHz (TWR)	Intel Xeon W Series - up to 18 cores - up to 4.7GHz	Intel Xeon W Series - up to 18 cores - up to 4.7GHz
Graphics Card	Intel Integrated HD NVIDIA Quadro P620, P1000	Intel Integrated HD NVIDIA Quadro P400, P620, P1000, P2200* NVIDIA Quadro RTX 4000*, 5000* *Tower only	NVIDIA Quadro P400, P620, P1000, P2200 NVIDIA Quadro RTX 4000, 5000	NVIDIA Quadro P400, P620, P1000, P2200 NVIDIA Quadro GV100 NVIDIA Quadro RTX 4000, 5000, 6000, 8000
Memory Support	Up to 64GB DDR4, 2933MHz 2 DIMM Slots (SoDIMM) 4GB / 8GB / 16GB / 32GB	Up to 128GB DDR4, 2933MHz 4 DIMM Slots (UDIMM) 4GB / 8GB / 16GB / 32GB non-ECC 8GB / 16GB / 32GB ECC	Up to 256GB DDR4, 2933MHz ECC 4 DIMM Slots (RDIMM) 8GB / 16GB / 32GB / 64GB	Up to 256GB DDR4, 2933MHz ECC 8 DIMM Slots (RDIMM) 8GB / 16GB / 32GB / 64GB
Max Drives	2 Drives	6 Drives	6 Drives	8 Drives
Max Storage[1]	Max M.2 = 2 (4TB)	SFF TWR Max M.2 = 4 (8TB) 4 (8TB) Max 3.5" = 1 (6TB) 2 (12TB) Max 2.5" = 1 (1TB) 2 (2TB)	Max M.2 = 2 (4TB) 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	170W / 89% Efficient 230W / 89% Efficient	310W / 92% Efficient - SFF 380W / 92% Efficient - SFF 300W / 90% Efficient - Tower 500W / 92% Efficient - Tower	625W / 92% Efficient	690W / 92% Efficient 1000W / 92% Efficient

Desktop Workstation Comparison

	ThinkStation P620	ThinkStation P720	ThinkStation P920	ThinkStation P920 Rack
	33 Liter	36 Liter	55 Liter	
	GAME CHANGING POWER, RELIABILITY, AND SPEED	**FEATURE-RICH DUAL-PROCESSOR SYSTEM**	**MOST ADVANCED DUAL-PROCESSOR WORKSTATION**	**SECURITY & EFFICIENCY WITHOUT LIMITS**
Processor	AMD Ryzen Threadripper PRO 3995WX - up to 64 cores - up to 4.0GHz	Dual Intel Xeon Scalable Processor - up to 24 cores per CPU - up to 4.0GHz per CPU	Dual Intel Xeon Scalable Processor - up to 28 cores per CPU - up to 4.0GHz per CPU	Dual Intel Xeon Scalable Processor - up to 28 cores per CPU - up to 4.0GHz per CPU
Graphics Card	NVIDIA Quadro P620, P1000, P2200 NVIDIA Quadro GV100 NVIDIA Quadro RTX 4000, 5000, 6000, 8000	NVIDIA Quadro P400, P620, P1000, P2200 NVIDIA Quadro GV100 NVIDIA Quadro RTX 4000, 5000, 6000, 8000	NVIDIA Quadro P400, P620, P1000, P2200 NVIDIA Quadro GV100 NVIDIA Quadro RTX 4000, 5000, 6000, 8000	NVIDIA Quadro RTX 4000, 5000, 6000 NVIDIA Tesla V100, T4
Memory Support	Up to 512GB, 3200MHz 8 DIMM Slots (RDIMM) 16GB / 32GB / 64GB	Up to 768GB DDR4, 2933MHz[3] ECC 12 DIMM Slots (RDIMM) 8GB / 16GB / 32GB / 64GB	Up to 2TB DDR4, 2933MHz[3] ECC 16 DIMM Slots (RDIMM/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	6 Drives	12 Drives	12 Drives	10 Drives
Max Storage	Max M.2 = 2 (4TB) Max 3.5" = 4 (16TB)	Max M.2 = 2 (4TB)[2] Max 3.5" = 6 (36TB) Max 2.5" = 10 (20TB)	Max M.2 = 2 (4TB)[2] Max 3.5" = 6 (36TB) Max 2.5" = 10 (20TB)	M.2 SATA = 2 (960GB) Boot Drives Max 3.5" = 8 (112TB)
Power Supply	1000W / 92% Efficient	690W / 92% Efficient 1000W / 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 Available on Intel Xeon Gold and Platinum CPUs only

ThinkStation

Mobile Workstation Product Comparison

	ThinkPad **P14s/P15s**	**ThinkPad** **P15v**	**ThinkPad** **P1** Gen 3	**ThinkPad** **P15**	**ThinkPad** **P17**
	ON-THE-GO POWER AND PERFORMANCE	**VALUE WITHOUT COMPROMISE**	**THE POWER YOU NEED, THE MACHINE YOU WANT**	**UNLOCK ULTIMATE POWER CONFIGURED YOUR WAY**	**MAXIMIZE YOUR CREATIVE SPACE**
Processor	Up to 10th Gen Intel Core i7 - up to 6 cores - up to 4.6GHz	Intel Xeon W Series - up to 6 cores - up to 5.1GHz Up to 10th Gen Intel Core i7 - up to 8 cores - up to 5.1GHz	Intel Xeon H Series - up to 6 cores - up to 5.1GHz Up to 10th Gen Intel Core i9 - up to 8 cores - up to 5.3GHz	Intel Xeon H Series - up to 8 cores - up to 5.3GHz Up to 10th Gen Intel Core i9 - up to 8 cores - up to 5.3GHz	Intel Xeon H Series - up to 8 cores - up to 5.3GHz Up to 10th Gen Intel Core i9 - up to 8 cores - up to 5.3GHz

Display	P14s: 14″ Display*
	
	P15s: 15.6″ Display**
	
	UHD (3840 x 2160) IPS
	- 500nit, HDR 400, Dolby Vision HDR*
	- 600nit, HDR 400, Dolby Vision HDR**
	
	FHD (1920 x 1080) IPS
	- 500nit, on-cell touch, 72% NTSC*
	- Low Power 400nit, 72% NTSC*
	- Touch 300nit, 45% NTSC
	- 250nit, 45% NTSC
		15.6″ Display
		
		UHD (3840 x 2160)
		- 600nit, Dolby Vision HDR
		
		FHD (1920 x 1080) IPS
		- Touch, 300nit
		- 250nit
			15.6″ Display
			
			UHD (3840 x 2160)
			- OLED Touch,
			  HDR500 True Black
			
			- LCD IPS 600nit,
			  Dolby Vision HDR
			
			FHD (1920 x 1080) IPS
			- 500nit or 300nit
				15.6″ Display
				
				UHD (3840 x 2160)
				- OLED Touch,
				  HDR500 True Black
				
				- LCD IPS 500nit,
				  Dolby Vision HDR
				
				FHD (1920 x 1080) IPS
				- 500nit or 300nit
					17.3″ Display
					
					UHD (3840 x 2160) IPS
					- 500nits, Dolby Vision HDR
					
					FHD (1920 x 1080) IPS
					- 300nits

Graphics	NVIDIA Quadro P520	Integrated: Intel UHD 630 Graphics Discrete: NVIDIA Quadro P620	Integrated: Intel UHD 630 Graphics Discrete: NVIDIA Quadro T1000, T2000	NVIDIA Quadro T1000, T2000 NVIDIA Quadro RTX 3000, 4000, 5000	NVIDIA Quadro T1000, T2000 NVIDIA Quadro RTX 3000, 4000, 5000
Memory Support	Up to 48GB DDR4 1 Soldered Down / 1 SoDIMM Slot 8GB / 16GB / 32GB	Up to 64GB DDR4 2 SoDIMM Slots 8GB / 16GB / 32GB ECC & non-ECC	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 4TB NVMe SSD	Up to 4TB NVMe SSD	Up to 4TB NVMe SSD	Up to 4TB NVMe SSD
Battery	50WHr* 57WHr**	68WHr	80WHr	94WHr	94WHr
Power Supply	65W Type-C Rapid Charge	135W Slim Rapid Charge	135W Slim 170W Slim Rapid Charge	170W Slim 230W Slim Rapid Charge	170W Slim 230W Slim Rapid Charge
Weight Thinness	Starting at: 3.24lbs (1.47kg)* 3.87lbs (1.76kg)** 17.9mm Thin* 19.1mm Thin** * P14s ** P15s	Starting at: 4.57lbs (2.07kg) 22.7mm Thin	Starting at: 3.75lbs (1.7kg) 18.4mm Thin	Starting at: 6.05lbs (2.74kg) 29.1mm Thin	Starting at: 7.7lbs (3.49kg) 30.2mm Thin

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