Lenovo™ ThinkStation® P Series
and ThinkPad® P Series

MORE POWER
MORE PERFORMANCE
MORE PRODUCTIVITY

Lenovo™

ThinkStation.

ThinkPad.

Desktop Workstation Comparison

	ThinkStation P340Tiny	**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

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.

ThinkStation

Desktop Workstation Comparison

	ThinkStation P620	**ThinkStation P720**	**ThinkStation P920**	**ThinkStation P920 Rack**
	36 Liter	36 Liter	55 Liter	
	GAME CHANGING POWER, RELIABILITY, AND SPEED	**PROFESSIONAL POWER WITH ULTIMATE VERSATILITY**	**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 NVS 810 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 Redundant Hot Swap 1100W (230V/115V) / Platinum Efficient 1600W (230V) / Platinum Efficient

Lenovo Workstation 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.
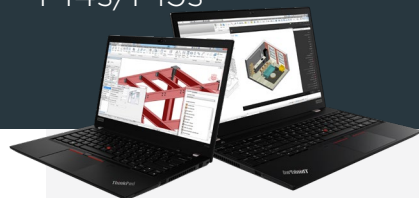
Lenovo™

intel®

NVIDIA®

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

Lenovo™

ThinkPad