

Lenovo™ ThinkStation® P Series  
and ThinkPad® P Series

**MORE POWER  
MORE PERFORMANCE  
MORE PRODUCTIVITY**



**Lenovo™**

**ThinkStation®**  
**ThinkPad®**

# Desktop Workstation Comparison Single CPU Systems

ThinkStation  
P330Tiny



1 Litre

ThinkStation  
P330  
(TWR & SFF)



18 Litre  
8.4 Litre

ThinkStation  
P520c



25 Litre

ThinkStation  
P520



33 Litre

## 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.

### 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

	ThinkStation P330Tiny	ThinkStation P330 (TWR & SFF)	ThinkStation P520c	ThinkStation P520												
<b>Processor</b>	Up to 9 <sup>th</sup> Gen Intel Core i9-9900T - 8 Core - 4.4GHz	Up to 9 <sup>th</sup> Gen Intel Core i9-9900K - 8 Core - 5.0GHz  Intel Xeon E - 6 Core - Up to 4.7GHz	Intel Xeon W Series - up to 18 cores - up to 4.5GHz	Intel Xeon W Series - up to 18 cores - up to 4.5GHz												
<b>Graphics Card</b>	Intel Integrated HD NVIDIA Quadro P620, P1000	Intel Integrated HD NVIDIA Quadro P400, P620, P1000, P2000*, P2200, P4000*, P5000*  NVIDIA Quadro RTX 4000* <small>*Tower only</small>	NVIDIA Quadro NVS 810 NVIDIA Quadro P400, P620, P1000, P2000, P2200, P4000, P5000  NVIDIA® Quadro RTX 4000	NVIDIA Quadro NVS 810 NVIDIA Quadro P400, P620, P1000, P2000, P2200, P4000, P5000, P6000 NVIDIA Quadro GP100, GV100 NVIDIA Quadro RTX 4000, 5000, 6000												
<b>Memory Support</b>	Up to 64GB DDR4, 2666MHz 2 DIMM Slots (SoDIMM)	Up to 128GB DDR4, 2666MHz non-ECC 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												
<b>Max Drives</b>	3 Drives	7 Drives (TWR) / 5 Drives (SFF)	6 Drives	8 Drives												
<b>Max Storage<sup>1</sup></b>	Max M.2 = 2 (2TB) Max 2.5" = 1 (2TB)	<table border="0"> <tr> <td></td> <td>SFF</td> <td>TWR</td> </tr> <tr> <td>Max M.2 =</td> <td>3 (6TB)</td> <td>3 (6TB)</td> </tr> <tr> <td>Max 3.5" =</td> <td>1 (4TB)</td> <td>3 (18TB)</td> </tr> <tr> <td>Max 2.5" =</td> <td>2 (2TB)</td> <td>4 (4TB)</td> </tr> </table>		SFF	TWR	Max M.2 =	3 (6TB)	3 (6TB)	Max 3.5" =	1 (4TB)	3 (18TB)	Max 2.5" =	2 (2TB)	4 (4TB)	Max M.2 = 2 (4TB) <sup>2</sup> Max 3.5" = 4 (24TB) Max 2.5" = 4 (8TB)	Max M.2 = 2 (4TB) <sup>2</sup> Max 3.5" = 6 (36TB) Max 2.5" = 6 (12TB)
	SFF	TWR														
Max M.2 =	3 (6TB)	3 (6TB)														
Max 3.5" =	1 (4TB)	3 (18TB)														
Max 2.5" =	2 (2TB)	4 (4TB)														
<b>Power Supply</b>	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												

# Desktop Workstation Comparison Dual CPU Systems

ThinkStation  
P720



36 Litre

ThinkStation  
P920



55 Litre

ThinkStation  
P920 Rack



	<b>PROFESSIONAL POWER WITH ULTIMATE VERSATILITY</b>	<b>MOST ADVANCED DUAL- PROCESSOR WORKSTATION</b>	<b>SECURITY &amp; EFFICIENCY WITHOUT LIMITS</b>
<b>Processor</b>	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
<b>Graphics Card</b>	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 M60 <sup>3</sup>	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 M60 <sup>3</sup>	NVIDIA Quadro RTX 4000, 5000, NVIDIA Tesla V100, T4
<b>Memory Support</b>	Up to 384GB DDR4, 2933MHz <sup>4</sup> ECC 12 DIMM Slots (RDIMM) 8GB / 16GB / 32GB / 64GB	Up to 2TB DDR4, 2933MHz <sup>4</sup> 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
<b>Max Drives</b>	12 Drives	12 Drives	10 Drives
<b>Max Storage</b>	Max M.2 = 2 (4TB) <sup>2</sup> Max 3.5" = 6 (60TB) Max 2.5" = 10 (20TB)	Max M.2 = 2 (4TB) <sup>2</sup> Max 3.5" = 6 (60TB) Max 2.5" = 10 (20TB)	M.2 SATA = 2 (960GB) Boot Drives Max 3.5" = 8 (112TB)
<b>Power Supply</b>	690W / 92% Efficient 900W / 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.



<sup>1</sup> Any combination of storage to equal Maximum Storage Drives  
<sup>2</sup> Additional M.2 or Add-in-Card PCIe SSD drives can be installed via rear PCIe adapters  
<sup>3</sup> Special Bid Only  
<sup>4</sup> Available on Intel Xeon Gold and Platinum CPUs only

Lenovo™

# Mobile Workstation Product Comparison

ThinkPad  
P14s



ThinkPad  
P15s



ThinkPad  
P1 Gen 2



ThinkPad  
P53



ThinkPad  
P73



## LENOVO'S LIGHTEST MOBILE WORKSTATION

<b>Processor</b>	10 <sup>th</sup> Gen Intel Core i7 - Up to 6 Core - Up to 4.9GHz 10 <sup>th</sup> Gen Intel Core i5 - 4 Core - Up to 4.4GHz
<b>Display</b>	14" Display 4K UHD (3840 x 2160) IPS - 500nit, 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
<b>Graphics Card</b>	NVIDIA Quadro P520
<b>Memory Support</b>	Up to 48GB DDR4 1 Soldered Down / 1 SoDIMM Slot 8GB / 16GB / 32GB
<b>Max Storage</b>	Up to 2TB NVMe SSD
<b>Battery Power Supply</b>	50Whr 65W Type-C Rapid Charge
<b>Weight Thinness</b>	Starting at: 3.24lbs (1.47kg) 17.9mm Thin

## ON-THE-GO POWER AND PERFORMANCE

<b>Processor</b>	10 <sup>th</sup> Gen Intel Core i7 - Up to 6 Core - Up to 4.9GHz 10 <sup>th</sup> Gen Intel Core i5 - 4 Core - Up to 4.4GHz
<b>Display</b>	15.6" Display 4K UHD (3840 x 2160) IPS - 600nit, HDR 400, Dolby Vision HDR FHD (1920 x 1080) IPS - Touch 300nit, 45% NTSC - 250nit, 45% NTSC
<b>Graphics Card</b>	NVIDIA Quadro P520
<b>Memory Support</b>	Up to 48GB DDR4 1 Soldered Down / 1 SoDIMM Slot 8GB / 16GB / 32GB
<b>Max Storage</b>	Up to 2TB NVMe SSD
<b>Battery Power Supply</b>	57Whr 65W Type-C Rapid Charge
<b>Weight Thinness</b>	Starting at: 3.87lbs (1.76kg) 19.1mm Thin

## THE POWER YOU NEED, THE MACHINE YOU WANT

<b>Processor</b>	Intel Xeon E - 6 Core - Up to 4.7GHz 9 <sup>th</sup> Gen Intel Core i9 - 8 Core - Up to 4.8GHz
<b>Display</b>	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
<b>Graphics Card</b>	NVIDIA Quadro T1000 NVIDIA Quadro T2000
<b>Memory Support</b>	Up to 64GB DDR4 2 SoDIMM Slots 8GB / 16GB / 32GB ECC & non-ECC
<b>Max Storage</b>	Up to 4TB NVMe SSD
<b>Battery Power Supply</b>	80Whr 135W Slim Rapid Charge
<b>Weight Thinness</b>	Starting at: 3.74lbs (1.7kg) 18.4mm Thin

## NEXT-LEVEL POWER AND PERFORMANCE

<b>Processor</b>	Intel Xeon E - 6 Core - Up to 4.7GHz 9 <sup>th</sup> Gen Intel Core i9 - 8 Core - Up to 4.8GHz
<b>Display</b>	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
<b>Graphics Card</b>	NVIDIA Quadro T1000 NVIDIA Quadro T2000 NVIDIA Quadro RTX 3000 NVIDIA Quadro RTX 4000 NVIDIA Quadro RTX 5000
<b>Memory Support</b>	Up to 128GB DDR4 4 SoDIMM Slots 8GB / 16GB / 32GB ECC & non-ECC
<b>Max Storage</b>	Up to 6TB NVMe SSD
<b>Battery Power Supply</b>	90Whr 170W Slim 230W Slim Rapid Charge
<b>Weight Thinness</b>	Starting at: 5.51lbs (2.5kg) 25mm Thin

## MAXIMIZE YOUR CREATIVE SPACE

<b>Processor</b>	Intel Xeon E - 6 Core - Up to 4.7GHz 9 <sup>th</sup> Gen Intel Core i9 - 8 Core - Up to 4.8GHz
<b>Display</b>	17.3" Display 4K UHD (3840 x 2160) IPS - 400nits, Dolby Vision HDR FHD (1920 x 1080) IPS - 300nits, 72% NTSC
<b>Graphics Card</b>	NVIDIA Quadro P620 NVIDIA Quadro T2000 NVIDIA Quadro RTX 3000 NVIDIA Quadro RTX 4000 NVIDIA Quadro RTX 5000
<b>Memory Support</b>	Up to 128GB DDR4 4 SoDIMM Slots 8GB / 16GB / 32GB ECC & non-ECC
<b>Max Storage</b>	Up to 6TB NVMe SSD
<b>Battery Power Supply</b>	99Whr 170W Slim 230W Slim Rapid Charge
<b>Weight Thinness</b>	Starting at: 7.5lbs (3.4kg) 28mm Thin

Lenovo™

ThinkPad