# MORE POWER
# MORE CREATIVITY
# MORE PRODUCTIVITY

If you're looking for more power, more capacity and more creativity, look no further. Much more than a desktop, a ThinkStation® from Lenovo® can give you what you need for specialized, professional computing.

Perfect for:

- Engineers
- Game Designers
- Animators
- Financial Professionals
- Healthcare and Life Sciences
- Energy / Oil & Gas

## POWERFUL INTEL® XEON® PROCESSORS

**Lenovo ThinkStation workstations combine the latest high-performance** Intel Xeon processors, featuring unmatched performance with multicore processing efficiency with powerful graphics from NVIDIA®. Like all Think-branded products, our ThinkStation computers boast innovation and design excellence, while delivering quiet, reliable, and powerful solutions for your work environment.

**The ThinkStation's powerful Intel Xeon CPUs offer:**

- 24/7 uninterrupted performance
- ISV Certifications for maximum reliability and performance
- Intel Dynamic Power Management, offering better performance per watt
- Intel Turbo Boost, delivering extra power when you need it
- Advanced Intel Virtualization Technology

## PERFORMANCE GRAPHICS

**Lenovo ThinkStations deliver powerful graphics** needed for professional applications—from 2D and 3D content creators, to users of CAD and EDA applications, to finance and medical professionals. Powered by NVIDIA Quadro® and NVS graphics, each ThinkStation is built to maximize your productivity so you can do more in less time. Professional graphics cards also offer longer life cycles and much more reliability than their consumer counterparts and come with certified and optimized drivers from leading software vendors for a truly enhanced experience.

## THINK INNOVATION

**ThinkStations provide an innovative answer for challenges** such as thermal management, environmental responsibility and ergonomic design. All ThinkStations offer unique thermal designs engineered for maximum cool air delivery to key components, reducing the risk of hardware failure. ThinkStations are also whisper-quiet with a 24 db operating noise level. All ThinkStations are ergonomically designed making them easy to handle, with tool-free upgrades and maintenance.

## ISV CERTIFIED

**Every ThinkStation is ISV (Independent Software Vendor) tested and certified** to ensure maximum compatibility and performance. Certification means that should you ever require support on the specialized applications you use every day, the ISVs will be ready to help. Only a certified workstation-class product is eligible for this level of support.

ThinkStation

# WORKSTATION PRODUCT COMPARISONS

| | ThinkStation E32 (TWR & SFF) | ThinkStation S30 | ThinkStation C30 | ThinkStation D30 | ThinkPad W540 |
|---|---|---|---|---|---|
| **Purpose** | Entry CAD<br>Entry DCC<br>Autodesk AutoCAD<br>Adobe Photoshop<br>Adobe Illustrator<br>Front Office: EMR / EHR | Engineering Design Automation<br>Mid-range CAD<br>Mid-range DCC<br>SolidWorks<br>Autodesk Inventor<br>Medical Imaging: Radiology/Cardiology PACS | Financial Trading Floors<br>High-end CAD/CAM/CAE<br>3D DCC<br>Dassault Systemes Catia<br>Siemens NX<br>Monte Carlo Analysis<br>Black Scholes Modeling | Oil & Gas Exploration<br>High-end CAD/CAM/CAE<br>Autodesk Maya<br>PTC Pro|E<br>Landmark GeoProbe | Mobile Workstation Computing<br>Mid-range CAD<br>Mid-range DSS<br>SolidWorks<br>Autodesk AutoCAD |
| **Max Processors** | 1 | 1 | 2 | 2 | 1, mobile |
| **CPU Support** | Xeon E3-1200 v3<br>Core™ i3, i5, i7<br>Pentium, Celeron | Intel Xeon E5-1600 v2<br>Intel Xeon E5-2600 v2 | Intel Xeon E5-1600 v2<br>Intel Xeon E5-2600 v2 | Intel Xeon E5-1600 v2<br>Intel Xeon E5-2600 v2 | Intel Core™ i5 - Dual Core<br>Intel Core™ i7 - Dual/Quad Core |
| **Chipset** | C226 | C602 | C602 | C602 | Intel® HM77 |
| **Max Memory** | 32GB | 256GB | 256GB | 512GB | 32GB |
| **ECC Memory Support** | Yes | Yes | Yes | Yes | No |
| **Optical Types Supported** | DVD-ROM<br>DVD-RW<br>Blu-ray Disc™ Burner | DVD-ROM<br>DVD-RW<br>Blu-ray Disc™ Burner | DVD-ROM<br>DVD-RW<br>Blu-ray Disc™ Burner | DVD-ROM<br>DVD-RW<br>Blu-ray Disc™ Burner | DVD-ROM<br>DVD-R |
| **Max 5400 rpm HDD Capacity** | Not Available | Not Available | Not Available | Not Available | 1TB |
| **Max 7200 rpm HDD Capacity** | 9TB (TWR) / 6TB (SFF) | 16TB | 16TB | 24TB | 500GB |
| **Max 10K rpm HDD Capacity** | 3TB (TWR) / 3TB (SFF) | 4TB | 3TB | 5TB | Not Available |
| **Max 15K rpm HDD Capacity** | Not Available | 2.4TB | 1.8TB | 3TB | Not Available |
| **Max SSD HDD Capacity** | 1.5TB (TWR) / 1.5TB (SFF) | 2TB | 1.5TB | 2.5TB | 512GB |
| **Max Hybrid SATA** | 12TB (TWR) / 8TB (SFF) | 8TB | 8TB | 12TB | Not Available |
| **Power Supply** | 450W* 92% Efficient<br>280W 85% Efficient<br>240W 85% & 92% Efficient (SFF only)<br>* Special bid for 450W | 610W 90% Efficient | 800W 90% Efficient | 1120W 90% Efficient | 170W |
| **Supported Graphics Cards** | Intel Integrated HD<br>NVIDIA Quadro NVS 300<br>NVIDIA Quadro NVS 310<br>NVIDIA Quadro NVS 315<br>NVIDIA Quadro NVS 450*<br>NVIDIA Quadro NVS 510<br>NVIDIA Quadro 400<br>NVIDIA Quadro 410<br>NVIDIA Quadro K600<br>NVIDIA Quadro K2000*<br>NVIDIA Quadro K2000D*<br>NVIDIA Quadro K4000*<br>* Tower only | NVIDIA Quadro NVS 300<br>NVIDIA Quadro NVS 310<br>NVIDIA Quadro NVS 315<br>NVIDIA Quadro NVS 450<br>NVIDIA Quadro NVS 510<br>NVIDIA Quadro 400<br>NVIDIA Quadro 410<br>NVIDIA Quadro K600<br>NVIDIA Quadro K2000<br>NVIDIA Quadro K2000D<br>NVIDIA Quadro K4000<br>NVIDIA Quadro K5000<br>NVIDIA Quadro K6000<br>NVIDIA Tesla K20 | NVIDIA Quadro NVS 300<br>NVIDIA Quadro NVS 310<br>NVIDIA Quadro NVS 315<br>NVIDIA Quadro NVS 450<br>NVIDIA Quadro NVS 510<br>NVIDIA Quadro 400<br>NVIDIA Quadro 410<br>NVIDIA Quadro K600<br>NVIDIA Quadro K2000<br>NVIDIA Quadro K2000D<br>NVIDIA Quadro K4000<br>NVIDIA Quadro K5000<br>NVIDIA Quadro K6000<br>NVIDIA Tesla K20 | NVIDIA Quadro NVS 300<br>NVIDIA Quadro NVS 310<br>NVIDIA Quadro NVS 315<br>NVIDIA Quadro NVS 450<br>NVIDIA Quadro NVS 510<br>NVIDIA Quadro 400<br>NVIDIA Quadro 410<br>NVIDIA Quadro K600<br>NVIDIA Quadro K2000<br>NVIDIA Quadro K2000D<br>NVIDIA Quadro K4000<br>NVIDIA Quadro K5000<br>NVIDIA Quadro K6000<br>NVIDIA Tesla K20 | NVIDIA Quadro K1100M<br>NVIDIA Quadro K2100M |
| **Memory Slots** | 4 | 8 | 8 | 16 | 4 |
| **Max Internal HD Bays** | 3 | 3 | 3 | 5 | 2 |
| **PCI/PCIe** | PCI card slot<br>PCI-Express x1<br>PCI-Express x4<br>PCI-Express x16 | PCI card slot<br>PCI-Express x4 card slot<br>PCI-Express x4 card slot<br>(x16 mechanical)<br>2x PCI-Express x16 graphics card slot | 2x PCI card slot<br>2x PCI-Express x4 card slot<br>2x PCI-Express x16 graphics card slot | 2x PCI card slot<br>2x PCI-Express x4 card slot<br>2x PCI-Express x16 graphics card slot | |

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