

Lenovo® recommends Windows® 7 Professional.

lenovo® **FOR**
THOSE
WHO DO.

THE LENOVO® THINKSTATION® S20 WORKSTATION
HIGH-PERFORMANCE. RELIABLE. ISV-CERTIFIED.



POWERFUL GRAPHICS,
SUPPORTING UP TO TWO NVIDIA
QUADRO GRAPHICS

HIGH-END PROCESSING POWER
WITH THE LATEST INTEL XEON
PROCESSORS

ISV CERTIFIED FOR OPTIMIZED
PERFORMANCE AND RELIABILITY

INTEL TURBO BOOST TECHNOLOGY
BOOSTS PERFORMANCE DURING
PEAK PROCESSING

QUIET ACOUSTICS WITH ALMOST
UNDETECTABLE IDLE OPERATING NOISE

The Lenovo ThinkStation S20 combines powerful graphics and the latest Xeon® processor technology to drive productivity and redefine multi-tasking. Its groundbreaking design ramps up parallel workflows, enabling professional users to quickly bring their ideas to life.

The single-processor Intel® Xeon® Thinkstation S20 is the ideal mid-range workstation solution for users across a variety of industries - from 2D digital content creators, to users of mid-range CAD and EDA applications, to finance and medical professionals. The S20 supports up to two graphic adapters and a robust 625W power supply.

The Lenovo ThinkStation has an environmentally conscious, user-centric design - light on the environment but with tool-free maintenance. And Lenovo has close relationships with today's leading ISV's, ensuring optimum performance and stability in the demanding applications you use every day. Lenovo Thinkstations are fully certified and tested to optimize performance for the top ISV applications.



LENOVO ENHANCED EXPERIENCE FOR WINDOWS® 7.
FAST. SECURE. BUILT FOR BUSINESS.

Discover a better way of doing business with the new Lenovo Enhanced Experience for Windows® 7 on Think PCs. Faster, more durable and greener Think PCs are optimized for Windows® 7 to deliver improved ease of use. It enhances productivity and foolproof security that your business cannot do without.



Lenovo® recommends Windows® 7 Professional.

lenovo® **FOR**
THOSE
WHO DO.

EXTREME PERFORMANCE

- Latest generation of Intel® Xeon® CPUs delivers unmatched performance with incredible efficient multi-core processing
- Genuine Windows® 7 Professional
- Dynamic Power management for less energy consumption during periods of low utilization
- Intel® Turbo boost technology for additional performance during peak processing
- Full line of cutting-edge graphics technologies, including the NVIDIA® QUADRO® line
- With up to a 625W power supply, the ThinkStation S20 delivers all the power the key components need to maintain peak performance

QUIET AND RELIABLE

- The ThinkStation's 24db idle operating noise level makes it nearly undetectable
- ThinkStation's unique thermal design is engineered for maximum cool air delivery to key components, reducing the risk of hardware failure

ROCK-SOLID ENGINEERING

- Secure premium cover latch makes the cover easily removable, allowing users to make instant upgrades
- Illuminated front panel and icons make ports easily accessible, especially in studio and office environments
- Ergonomically designed, removable handle makes it easy to carry, move and manage

ENVIRONMENTALLY RESPONSIBLE

- Contains more than 50% recycled plastics, including 26% post-consumer content
- EPEAT® GOLD and GREENGUARD® Certified
- 80 Plus Bronze certified power supply
- Many ThinkStation models are Energy Star® 5.0 compliant



SERVICE OFFERINGS

BASE WARRANTY

- 1 year Onsite Service*

UPGRADE OPTIONS¹

- 1 Yr Priority Support
- 1 Yr Hard Disk Drive Retention
- 2 Yr Onsite 9x5 NBD² Service
- 3 Yr Onsite 9x5 NBD² Service
- 3 Yr Priority Support + Onsite 9x5 NBD² Service
- 3 Yr Onsite 9x5 NBD² Service + Hard Disk Drive Retention

VALUE ADDED SERVICES¹

- Lenovo Online Data Backup
- Lenovo Imaging Services
- Lenovo Asset Recovery Services

BASE WARRANTY

- 3 year Onsite Service*

UPGRADE OPTIONS¹

- 3 Yr Priority Support
- 3 Yr Onsite 9x5 NBD² Service + Hard Disk Drive Retention
- 4 Yr Priority Support + Onsite 9x5 NBD² Service
- 4 Yr Onsite 9x5 NBD² Service
- 5 Yr Priority Support + Onsite 9x5 NBD² Service
- 5 Yr Onsite 9x5 NBD² Service

VALUE ADDED SERVICES¹

- Lenovo Online Data Backup
- Lenovo Imaging Services
- Lenovo Asset Recovery Services

* 1yr or 3yr Onsite
1 Country Availability may vary. Please check with your local service support center for details.
2 Next Business Day



THE LENOVO® THINKSTATION® S20 WORKSTATION

OPTIONS AND ACCESSORIES



PROFESSIONAL GRAPHICS CARDS

Lenovo DisplayPort cable is DisplayPort1.2 compliant to provide upto 4k x 2k resolution. Get Lenovo DisplayPort Cable (0A36537) with NVS / Quadro graphics cards and Lenovo LT LED Monitors.

NVIDIA NVS 295 Dual DisplayPort Graphics Card (45K1669)

- Dual DisplayPort supports 2560 x 1600 resolution
- Fan-less design and quieter operation
- NVIEW Display Management software
- Supports attachment of optional DisplayPort cables /adapters

NVIDIA NVS 300 Dual Digital, Dual Analog Graphics Card (0A36528)

- DMS59 interface supports dual digital, dual analog capability
- Fan-less design and quieter operation
- NVIEW and Mosaic Display Management software
- Supports attachment of optional DisplayPort cables /adapters

NVIDIA NVS 450 Quad DisplayPort, Quad DVI Graphics Card (57Y4398)

- Quad DisplayPort supports 2560 x 1600 resolution
- Includes four DisplayPort to Single-link DVI-D monitor cables to connect DVI monitors
- NVIEW Display Management software
- Supports attachment of optional DisplayPort cables / adapters

NVIDIA Quadro 400 DisplayPort, DVI Graphics Card (0A36535)

- Each DisplayPort and Dual-link DVI-I supporting upto 2560 x 1600 @ 60Hz or 1920 x 1200 @120Hz
- Energy efficient 3D CAD performance with a flexible form factor
- Supports attachment of optional DisplayPort cables / adapters

NVIDIA Quadro 600 DisplayPort, DVI-I 1GB Graphics Card (0A36183)

- DisplayPort and Dual-link DVI each supporting maximum resolution of 2560x1600
- Energy efficient 1GB performance with flexible form factor
- Supports attachment of optional DisplayPort cables / adapters

NVIDIA Quadro 2000 Dual DisplayPort, Dual-link DVI 1GB Graphics Card (57Y4479)

- Three monitor ports: use any two of three ports
- DisplayPort and Dual-link DVI each supporting maximum resolution of 2560x1600
- Supports attachment of optional DisplayPort cables / adapters

NVIDIA Quadro 4000 Dual DisplayPort, Dual-link DVI 2GB Graphics Card (57Y4480)

- Three monitor ports: use any two of three ports
- DisplayPort and Dual-link DVI each supporting maximum resolution of 2560x1600
- Supports attachment of optional DisplayPort cables / adapters

NVIDIA Quadro 5000 Dual DisplayPort, Dual-link DVI 2.5GB Graphics Card (57Y4481)

- Three monitor ports: use any two of three ports
- DisplayPort and Dual-link DVI each supporting maximum resolution of 2560x1600
- Supports attachment of optional DisplayPort cables / adapters



WORKSTATION STORAGE

- Lenovo 250GB 7200 rpm Serial ATA Hard Drive – **41N3015**
- Lenovo 500GB 7200 rpm Serial ATA Hard Drive – **43R1990**
- Lenovo 1TB 7200 rpm Serial ATA Hard Drive – **45J7918**
- Lenovo 300GB 10K rpm Serial ATA Hard Drive – **43R2031**
- ThinkStation 450GB 15K rpm SAS Hard Drive – **43N3424**



WORKSTATION MEMORY

Cost effective way to boost overall system performance

ECC UDIMM

- 2GB PC3-10600 DDR3-1333 ECC UDIMM – **43R2033**
- 4GB PC3-10600 DDR3-1333 ECC UDIMM – **57Y4138**



PROCESSORS AND HEATSINKS

Intel® Xeon® Processors

- Intel® Xeon® Processor E5606 (8M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI) - **0A36531**
- Intel® Xeon® Processor E5607(8M Cache, 2.26 GHz, 4.80 GT/s Intel® QPI) - **0A36532**
- Intel® Xeon® Processor E5645 (12M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI) - **0A36533**
- Intel® Xeon® Processor E5649 (12M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI) - **0A36534**

LED MONITORS

Lenovo ThinkVision LT2452p 24" LED Monitor (4420MB2)

- Wide viewing angle with native resolution of 1920 x 1200; 16:10 Aspect ratio; 7ms response time
- Multiple input options – DisplayPort, DVI-D and VGA
- ENERGY STAR 5.1 compliant, EPEAT Gold/ULE Gold, and TCO certified Edge 1.1



Lenovo ThinkVision LT2252p 22" LED Monitor (2572MB6)

- Wide viewing angle with native resolution of 1680 x 1050; 16:10 Aspect ratio; 5ms response time
- Multiple input options – DisplayPort, DVI-D and VGA
- ENERGY STAR 5.1 compliant, TCO certified Edge 1.1, and Mercury/Arsenic free glass

Lenovo ThinkVision LT1952p 19" LED Monitor (2448MB6)

- Wide viewing angle with native resolution of 1440 x 900; 16:10 Aspect ratio; 5ms response time
- Multiple input options – DisplayPort, DVI-D and VGA
- ENERGY STAR 5.1 compliant, TCO certified Edge 1.1, and Mercury free glass

PRODUCTIVITY ACCESSORIES



ThinkCentre Extend Arm - 57Y4352

- Extend function (410mm, 16.1") to easily move and adjust the monitor
- 269mm (10.6") vertical adjustment
- Pivot for portrait (vertical) and landscape (horizontal) viewing
- Tilt to reduce glare and improve viewing angle



3D Connexion Space Navigator Standard Edition - 41A2545

- Six degrees of freedom via a flexible controller cap
- Support for Google Earth Google SketchUp Autodesk DWF Viewer as well as 3D design applications from Solidworks, PTC, UGS, Dassault Systemes and Autodesk

SPECIFICATIONS

OPERATING SYSTEM		CPU SUPPORT	CHIPSET
Preloaded: Genuine Windows® 7 Professional 64 bit Supported: Genuine Windows® 7 Ultimate 32 bit Genuine Windows® 7 Ultimate 64 bit Genuine Windows® 7 Professional 32 bit Genuine Windows® XP Professional 64 bit Genuine Windows® XP Professional 32 bit		Intel Xeon W3500 - 2 Core Intel Xeon W3500 - 4 Core Intel Xeon W3600 - 6 Core Intel Xeon E5600 - 4 Core Intel Xeon E5600 - 6 Core Intel Xeon X5600 - 4 Core Intel Xeon X5600 - 6 Core	Intel X58
MAX MEMORY (GB)	ECC MEMORY SUPPORT	OPTICAL TYPES SUPPORTED	
24	Yes	DVD-ROM DVD-RW Blu-ray Disc Burner	
MAX 7200RPM HDD CAPACITY (GB)	MAX 10KRPM HDD CAPACITY (GB)	MAX 15KRPM HDD CAPACITY (GB)	
3000	900	1350	
MAX SSD HDD CAPACITY (GB)	POWER SUPPLY	SUPPORTED GRAPHICS ADAPTERS	
768	625W 85% Efficient	NVIDIA NVS295 NVIDIA NVS300 NVIDIA NVS450 NVIDIA Quadro 400 NVIDIA Quadro 600 NVIDIA Quadro 2000, 2000D NVIDIA Quadro 4000 NVIDIA Quadro 5000x	
MAX # SUPPORTED MONITORS	ISV CERTIFIED?	RACK IMPLEMENTATION	
8	Yes	Not Available	

³ Any combination of two of the above cards is supported
⁴ Adapter card required for SAS



WWW.LENOVO.COM

©2011 Lenovo. All rights reserved.

Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors. Warranty: For a copy of applicable warranties, write to: Warranty Information, 500 Park Offices Drive, RTP, NC, 27709, Attn: Dept. ZPYA/B600. Lenovo makes no representation or warranty regarding third-party products or services. Trademarks: Lenovo, the Lenovo logo, Rescue and Recovery, ThinkStation, ThinkVantage, and ThinkVision are trademarks or registered trademarks of Lenovo. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Core, Core Inside, Xeon and Xeon Inside are registered trademarks of Intel Corporation in the U.S. and other countries. Other company, product, and service names may be trademarks or service marks of others. Visit www.lenovo.com/safecomputing periodically for the latest information on safe and effective computing.

WW/WW/DS/Q1-12/21729

