

Lenovo® recommends Windows Vista® Business.

ULTIMATE PERFORMANCE TO UNLEASH YOUR FULL POTENTIAL.

THINKSTATION® S20 & D20

POSITIONING TACTICS

STRONGER

- The latest advanced technologies and graphics from Intel®, NVIDIA® and ATI®
- Both ThinkStations S20 and D20 support NVIDIA's Tesla™ GPU computing solution, providing 240 additional cores for extreme performance on supported applications
- Intel's Turbo Boost technology allows for additional performance during peak processing
- ThinkStation® S20/D20 workstations have huge latency decreases and substantial bandwidth increases over the prior ThinkStation® workstation generation with Intel® QuickPath Interconnect and integrated DDR3 ECC memory controllers

QUIETER

- 24db idle operating noise level makes the ThinkStation S20/D20 nearly undetectable
- A 120mm bottom-mounted fan is slower-spinning and farther away from the rear of the system, resulting in less noise
- ThinkStation S20/D20 workstations are engineered for maximum cool air delivery, reducing the risk of hardware failure and virtually eliminating performance degradation due to heat.

GREENER

- With EPEAT™ Gold and Energy Star® 5.0 certification on many S20/D20 models, ThinkStation contain over 50% recycled plastics, now including recycled content
- Both the ThinkStation S20 and D20 now feature GREENGUARD® certification
- A dual-channel thermal design pulls outside air directly over the processors, resulting in a cooler system
- DDR3 memory consumes 30% less power than DD2 memory
- Intel's Dynamic Power Management allows for less energy consumption during periods of low utilization

ISV CERTIFIED

- Comprehensive testing and certification of applications from key Independent Software Vendors (ISV)
- Close partnerships with industry software leaders like Autodesk (AutoCAD, AliasStudio, Inventor, Maya, 3ds Max), Dassault Systèmes (CATIA, SolidWorks), PTC (Pro/E), UGS (NX), Avid (SoftImage) and many others

WHEN TO SELL

The ThinkStation S20/D20 workstation is ideal for businesses that seek:

- A high performance, high quality workstation that delivers a superior customer experience
- An environmentally conscious solution that incorporates a user-centric design for the enhancement of productivity
- Certified, extreme performance that is efficient, quiet, and green

TOP REASONS TO OWN

- ◆ THE ULTIMATE USER-FRIENDLY WORKSTATION EXPERIENCE
- ◆ PERFORMANCE THAT TAKES EXTREME SPEED AND EFFICIENCY TO NEW LEVELS
- ◆ COOL AND QUIET
- ◆ POWER AND EXPANDABILITY THAT'S UNATTAINABLE ON A DESKTOP PC
- ◆ TESTED AND CERTIFIED BY ISVs



WHO TO SELL TO

TARGET SEGMENT

ThinkStation S20/D20 workstations are built for professional users of graphically and computationally intensive applications in vertical industries of both emerging and mature markets (LE/MM/SMB). These professionals require an extremely high level of computing performance that is unattainable with a standard desktop PC. GFX designers and digital photographers are just some of the ThinkStation workstation's end users. Specifically, the D20 is ideal for end users in the segments of Oil and Gas, high-end CAD/CAM/CAE, 3D DCC and Video. These professionals demand the highest performance and reliability. On the other hand, the S20 is ideal for end users in the segments of mid-range CAD, 2D DCC and EDA who need workstation performance for CPU and GFX-intensive applications, but don't need the extra RAM or CPU of the D20.

1



ThinkStation™ Ideas
Energy Efficient
Low Operating Noise
Greater Expandability
Extreme Performance

lenovo®

NEW WORLD. NEW THINKING.™

Lenovo® recommends Windows Vista® Business.

TOP REASONS TO BUY

MARKETPLACE DIFFERENTIATION

The ThinkStation® S20/D20 workstation offers a better user and deployment experience over the competition.

- Customer-driven innovation and industry leadership: ergonomic handle makes the ThinkStation S20/D20 easy to move and deploy, and the acoustics are incredibly silent for a workstation (delivering desktop-level acoustics)
- A leaner OS preload, dedicating more CPU and memory to increasing application performance.
- Performance: ThinkStation S20/D20 mechanicals were designed from the ground-up with larger power supplies to offer maximum expandability; they offer more power, more ports and more full-sized bays and slots than desktop offerings for a simple, "future-proof" solution
- Lenovo prequalifies Intel's latest, bleeding-edge chipset technology and fully supports it from Day One — taking all of the guesswork and worry out of making hardware upgrades
- Rather than having the end user pay retail for off-the-shelf consumer parts to make a custom standard desktop, Lenovo delivers better and more reliable professional-class technology at a lower cost as a worldwide tier 1 OEM

CUSTOMER-FOCUSED SOLUTION

- Most end users find that desktop PCs, and even lower end workstations, are not able to give them the GFX performance accuracy and speed that they need. Fortunately, the ThinkStation S20/D20 workstation has a faster and more efficient chipset/architecture, runs off of more powerful building blocks, has faster and more reliable memory, and uses more efficient operating system preloads to up the performance
- Noise is a big deal in the workstation space with traditional workstations putting a large acoustic load on the engineers that work on them, as well as on the office environment. Thankfully, the ThinkStations S20 and D20 offer an acoustics profile making them nearly undetectable, without sacrificing any of the extreme performance customers need

TECHNOLOGIES

- **Processor:** Intel's new Xeon® W3000 and 5000 Series processors with 45nm technology
 - World-class performance combined with superior and energy-efficient multi-core processing
 - More instructions per clock
 - Improved caching
 - Support for existing and emerging applications and uses
 - Dynamically scaled performance when needed to maximize energy efficiency
 - Optimized for workstations as a single, scalable foundation across each segment and power envelope

- **Graphics:** The Quadro® and FirePro® lines of workstation graphics adapters from NVIDIA® and ATI®, respectively, provide full-range OpenGL support and allow for better video quality and processing when compared to consumer options
 - Have an extended 24-36 month lifecycle
 - Up to 4GB* of graphics memory and high fidelity color definition for vivid, interactive modeling
 - A performance increase of up to 10x in 3D Hidden
- **Storage:** Multiple RAID options, standard including RAID 0, 1, 1E, 5 and 1+0
- **Preloaded with:** Windows® XP Professional/Windows® Vista® (32 and 64-bit)
- **Support For:** Red Hat® Enterprise Linux® 5.2 (64-bit)

* Available for special bid configurations only

THINKVANTAGE® TECHNOLOGIES SUPPORT

- Enterprise level solution — ThinkVantage Technologies help make enterprise computing simpler and more secure
- Productivity Center — portal that organizes your top tasks, most frequently used applications and support tools with the press of a button
- Rescue and Recovery — one-button recovery that thoroughly eliminates system corruptions in as little time as possible
- Client Security Solution — will schedule a new password manager, if the user's schedule permits
- System Update — downloadable updates for the latest Lenovo software, drivers and BIOS
- Secure Data Disposal — downloadable tool that removes confidential information on a disk drive fast
- System Migration Assistant — an easy-to-use graphical interface for end-user driven migrations
- ImageUltra Builder — downloadable imaging technology that is designed to simplify the creation and distribution of corporate images and reduce image technology maintenance to virtually zero

SECURITY

- Line-fit intrusion switch
- Keylock cover
- Padlock loop
- Kensington slot
- TPM 1.2

SERVICE EXCELLENCE

Base Warranty: 3/3

 www.lenovo.com

THINK SAVINGS. THINK LENOVO.

©2009 Lenovo. Produced in the USA. 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. ©2009 Lenovo. All rights reserved.

Visit lenovo.com/safecomputing periodically for the latest information on safe and effective computing.

2



ThinkStation™ Ideas
Energy Efficient
Low Operating Noise
Greater Expandability
Extreme Performance

lenovo®

NEW WORLD. NEW THINKING.™