

Windows[®]. Life without Walls[™]. Lenovo[®] recommends Windows 7.



THINKSTATION[®] E20–TOP REASONS TO OWN

- BETTER VALUE
- HIGHER RELIABILITY
- STRONGER PERFORMANCE
- EASIER ON THE ENVIRONMENT

THE LENOVO® THINKSTATION® E20

Meet the new Lenovo ThinkStation E20, a power-packed workstation with beyond-desktop attributes in reliability and performance. The E20 is equipped to meet specialized needs such as coding and compiling business applications, designing graphics, 3D modeling and producing engineering designs. The ThinkStation E20 packs true workstation performance at an unbelievably affordable price.

Enhance your workstation performance with a new family of Intel processors that support unparalleled professional-grade integrated graphics, or enjoy eye-popping visuals with the latest discrete graphics from NVIDIA®. Take advantage of the ThinkStation's full potential in 2D / 3D imaging capabilities with Digital Content Creation (DCC) and Computer Aided Design (CAD) applications and begin raising the bar on productivity today.

The ThinkStation E20 is the ultimate tool for quickly boosting ROI. Certification of your specialized applications from independent software vendors yields an extra layer of reliability on your mission-critical projects. Achieve greater reliability and protection against memoryrelated errors with DDR3 ECC memory, thereby improving system uptime and maximizing your productivity. The E20 is also equipped with stronger storage capabilities, offering up to two hard disk drives with capacity up to 2TB and RAID standard, resulting in blazing fast, yet reliable performance. The small-form factor design with front and rear handles makes it convenient for you to move the E20 with ease, thus providing excellent portability should the need arise. The ThinkStation E20 is the environmental champion of its class, designed to provide you with improved performance and at the same time warranting adherence to environmental safety norms. It is GREENGAURD® certified for preserving indoor air quality and features many Energy Star® 5.0 models. The E20 is certified Gold by the EPEAT® organization and complies with REACH for meeting the required environmental performance criteria and ensuring prudent use of energy. Built with over 65% recycled plastic, the ThinkStation E20 re-affirms Lenovo's strong commitment to environmental protection.

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The ThinkStation E20 is designed to cater to your specialized needs, at the same time providing superior reliability and support to your applications.

The ThinkStation E20's exceptional performance, cutting-edge technology, price-affordability and environment friendliness coupled with Lenovo's outstanding services, make it the right choice for your business's design and computational needs.

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.

ThinkStation

THINKSTATION

E SERIES





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HIGH-PERFORMANCE FEATURES

The ThinkStation E20:

- Supports NVIDIA® Quadro® professional discreet graphics up to the FX1800 for serious 3D modeling horsepower
- Equipped with the latest Intel[®] technology with professional-grade integrated graphics to allow customers to save on cost, while maintaining performance on entry-class applications
- ISV certified for extra application stability, reliability and support
- Higher clock-speed Dual Core CPUs allow better value on single/dual-threaded applications

CONVENIENCE FEATURES

The ThinkStation E20:

- Pre-loaded with Genuine Windows[®] 7 Professional Lenovo Enhanced Experience, resulting in faster boot up and shut-down times and convenient back-up and diagnostic features, maximizing system uptime while minimizing maintenance time and cost
- Equipped with a tool-less chassis for easy serviceability
- · Offers excellent mobility with front and rear handles

GREEN ECO-FRIENDLY FEATURES

The ThinkStation E20:

- Features more Energy Star® 5.0 and EPEAT® Gold compliant models
- · Preserves indoor air quality through GREENGUARD® certification
- Built with 65% recycled plastics
- · Cool and Quiet

SERVICE OFFERINGS

BASE WARRANTY

3 years

UPGRADE OPTIONS

- 3-year onsite service 9 x 5 with 4-hour average response¹
- 3-year onsite service 24 x 7 with 4-hour average response1
- 4-year onsite service 9 x 5 NBD¹
- 4-year onsite service 9 x 5 with 4-hour average response¹
- 4-year onsite service 24 x 7 with 4-hour average response¹

POST WARRANTY

- 1-year onsite service 9 x 5 NBD²
- 2-year onsite service 9 x 5 NBD²
- 1-year onsite service 9 x 5 with 4-hour average response¹
- 2-year onsite service 9 x 5 with 4-hour average response
- 1-year onsite service 24 x 7
- 2-year onsite service 24 x 7

VALUE-ADDED SERVICES

- Online Data Backup (OLDB)
- ThinkPlus[™] Priority Support
- Non-Return Hard Drive Service
- 3-year onsite service + Hard Drive Retention







1 4-Hour response is available in select countries only: US, Canada, Japan and Singapore. Malaysia, Philippines and Indonesia have 9 x 5 x 4 response. 2 Next Business Day







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THINKSTATION E SERIES

LENOVO THINKSTATION[®] E20 WORKSTATION SPECIFICATIONS

MODEL NAME – E20

Processor

- Intel[®] Xeon[®] X3430 (2.40GHz / Quad / 8M cache/ 1333MHz Memory Support / 95W)
- Intel[®] Xeon[®] X3440 (2.53GHz / Quad / 8M cache/ 1333MHz Memory Support / 95W)
- Intel[®] Xeon[®] X3450 (2.67GHz / Quad / 8MB cache / 1333MHz Memory Support / 95W)
- Intel[®] Xeon[®] X3460 (2.80GHz / Quad / 8MB cache / 1333MHz Memory Support / 95W)
- Intel® Xeon® X3470 (2.93GHz / Quad / 8M cache/ 1333MHz Memory Support / 95W)
- Intel[®] Celeron[®] G1101 (2.26GHz / Dual / 3MB cache / 1066 MHz Memory Support / 73W / Integrated Graphics)
- Intel[®] Pentium[®] G6950 (2.80GHz / Dual / 3MB cache / 1066 MHz Memory Support / 73 W / Integrated Graphics)
- Intel[®] Core[™] i3-530 (2.93GHz / Dual / 4MB cache / 1333 MHz Memory Support / 73W / Integrated Graphics)
- Intel[®] Core[™] i3-540 (3.06GHz/ Dual / 4MB cache / 1333 MHz Memory Support / 73 W / Integrated Graphics)
- Intel[®] Core[™] i5-650 (3.20GHz / Dual / 4MB cache / 1333 MHz Memory Support / 73W / Integrated Graphics)
- Intel[®] Core[™] i5-660 (3.33GHz / Dual / 4MB cache / 1333 MHz Memory Support / 73W / Integrated Graphics)
- Intel[®] Core[™] i5-670 (3.46GHz / Dual / 4MB cache / 1333 MHz Memory Support / 73W / Integrated Graphics)

Preloaded Operating System

- Genuine Windows[®] 7 Professional 64 downgrade to Genuine Windows[®] XP Professional
- Genuine Windows[®] 7 Professional 64 Lenovo Enhanced Experience

Supported Operating Systems

- Red Hat[®] Enterprise Linux[®] 5
- Chipset
- Intel[®] 3450

1 Only two of three monitor parts are active

2 DisplayPort to Single-Link DVI-D monitor cables are available that allows attachment of DVI digital monitors

Form Factor

Tower

Machine Type

• 4220, 4222, 4215

Memory

- DDR3 1333MHz ECC UDIMM capacities: 1GB, 2GB, 4GB,
- DDR3 1333MHz Non-ECC UDIMM capacities: 1GB, 2GB

Optical Drive

- DVD-ROM Drive 16x / 48x (SATA)
- DVD Burner/CD-RW Rambo 8 (SATA)
- Blu-rav[™] Disc Burner

Serial ATA Hard Drive

SATA - 3.5" - 7200 RPM - 3GB/s

- 250GB SATA 7200 RPM, 3GB/s, 8MB cache
- 500GB SATA 7200 RPM, 3GB/s, 16MB cache
- 1TB SATA 7200 RPM, 3GB/s, 32MB cache

SATA - 2.5" - 10K RPM

- 150GB SATA 10000 RPM, 3GB/s, 16MB cache
- 300GB SATA 10000 RPM, 3GB/s, 16MB cache

SSD - 1.8" - MLC HDD

128GB Solid State Drive (SSD) - MLC HDD

Integrated Communications

• Integrated Intel[®] Ethernet

Power Supply

• 280W 80 plus Bronze Power Supply

System Weight (maximum)

• 11.2 Kgs / 24.7 lbs

Mouse

· Optical Wheel Mouse (400 DPI), USB - red wheel

Ports

Rear I/O

- PS/2 : 2 (Mouse / Keyboard) - Optional only
- Parallel (LPT)
- Serial (COM) • Ethernet

USB 2.0

:1 : 1 Gigabit (RJ45)

: None

- : 6 (Additional 2 optional via PCI slot)
- Analog Audio : 3 ports (line-in, line-out, mic)
- Digital Audio : None
- · Video (with Clarkdale only)
 - :1 ÝGA
 - :1 Display Port

Front I/O

• Audio

- USB 2.0 :2 • IEEE 1394
 - : None
 - : Headphone, Microphone
- **Dimensions**

mm inches notes

- Width 174.8 6.88
- Height 425.18 16.74 Floor to top of handle
- Height 376.18 14.81 Floor to top without handle
- Depth 430.8 16.96 Without cable

Graphic Card

2D adapters ²

- 256MB NVIDIA[®] NVS295 (2xDP)
- 512MB NVIDIA[®] NVS450 (4xDP)

3D adapters ²

- 256MB NVIDIA[®] FX380 (2xDVI)
- 512MB NVIDIA[®] FX580 (DVI + DP + DP)¹
- 768MB NVIDIA[®] FX1800 (2xDP, 1xDVI)¹





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THINKSTATION E SERIES

LENOVO® THINKSTATION® E20 OPTIONS

MONITORS AND MONITOR ACCESSORIES Lenovo ThinkVision L2251p Monitor (2572HD6) Lenovo ThinkVision™ L2440p Monitor (4420HB2) • 22" Wide with 1680 x 1050 resolution • 24" Wide with 1920 x 1200 resolution for productivity VGA + DisplayPort interfaces for easy dual monitor display · VGA + DVI-D interfaces and USB Hub for connection flexibility · Full function ergonomic stand • EPEAT® Gold*, TCO Displays 5.0 certified 29% more efficient than ENERGY STAR[®] 5.0 Standard **PRODUCTIVITY ACCESSORIES** NVIDIA® Quadro® NVS 450 Quad DisplayPort, Quad DVI-D NVIDIA® Quadro® NVS 295 Dual DisplayPort Graphics Graphics Card (57Y4398) Card (45K1669) Quad DisplayPort supports 2560 x 1600 resolution Dual DisplayPort supports 2560 x 1600 resolution Includes four DisplayPort to Single-Link DVI-D Monitor cables Fan-less design for quieter operation that allows attachment of DVI digital monitors NVIDIA's NVIEW Display Management software NVIDIA's NVIEW Display Management software NVIDIA [®] Quadro[®] FX 580 32-CUDA Cores DVI-I, Dual **DisplayPort Graphics Card (45K1671)** NVIDIA® Quadro® FX 380 16-CUDA Cores Dual DVI-I Graphics Card (45K1670) Three monitor ports: Two DisplayPort and one DVI-I - use any two of three ports. Dual DVI digital 2560 x 1600 or dual VGA analog 1920 x Dual DVI digital 2560 x 1600 or dual VGA analog 1920 x 1200 1200 maximum resolution maximum resolution Includes two DVI-VGA monitor adapters that allows attachment Includes one DVI-VGA monitor adapter that allows attachment of of VGA analog monitors VGA analog monitors 256MB memory frame size, 22.4 GB/sec memory bandwidth • 512MB memory frame size, 25.6 GB/sec memory bandwidth Support attachment of optional DisplayPort monitor cables NVIDIA® Quadro® FX 1800 64-CUDA Cores DVI-I, Dual DisplayPort Graphics Card (45K1672) Three monitor ports: Two DisplayPort and one DVI-I - use any Low-cost method to boost overall system performance using DDR3 Error Correcting Code (ECC) or non-ECC memory two of three ports. 43R2032 1GB PC3-10600 DDR3-1333 ECC UDIMM Dual DVI digital 2560 x 1600 or dual VGA analog 1920 x 1200 maximum resolution 43R2033 2GB PC3-10600 DDR3-1333 ECC UDIMM Includes one DVI-VGA monitor adapter that allows attachment 57Y4138 4GB PC3-10600 DDR3-1333 ECC UDIMM of VGA analog monitors 57Y4389 1GB PC3-10600 DDR3-1333 UDIMM 768MB memory frame size, 38.4 GB/sec memory bandwidth 57Y4390 2GB PC3-10600 DDR3-1333 UDIMM · Support attachment of optional DisplayPort monitor cables SECURITY ACCESSORIES Kensington Microsaver Security Cable Lock by Lenovo (73P2582) Secure your ThinkStation or ThinkVision Flat Panel monitor Lenovo Fingerprint USB Keyboard (73P4730) Super-strong, steel composite cable with carbon tempered steel core Replace Windows passwords with fast, secure access using Kensington Twin Head Security Cable Lock vour fingerprint by Lenovo (45K1620) Software configurable for simple fingerprint only log-in or more Secures two devices: ThinkStation and ThinkVision flat panel monitor secure authentication • 2nd lock moves along the cable for user adjustment and preference

www.lenovo.com/support/thinkstationaccessories





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