ThinkStation E32 Tower - Overview

Front view

1. External 5.25" Bay for optical
2. External 5.25" Bay for optical or optional 3.5" hard drive bay
3. Media card reader (optional) or optional mSATA SSD drive
4. Power Button
5. Front I/O: 2 USB 3.0 (blue)
   1. Headphone
   1. Microphone

Rear view

6. 280 watts Power Supply, 80 PLUS Bronze
7. Rear I/O: 2 USB 2.0
   1 USB 3.0 (blue)
   1 serial (9-pin)
   1 RJ-45 (GbE)
   1 line-in
   1 line-out
   1 microphone-in
   2 DisplayPort (for Intel HD Graphics)
   1 VGA (for Intel HD Graphics)
8. 1 PCIe 3.0 x16
   1 PCIe 2.0 x1
   1 PCIe 2.0 x16 (x4 elec)
   1 PCI

Internal
- One LGA1150 socket, supports one processor from Intel Xeon E3-1200 v3, Core i7-4000, and Core-i5 4000 families
- 4 DIMM sockets, supports up to 32GB ECC or non-ECC UDIMM memory
- Up to three 3.5" hard drive bays, two 3.5" hard drive bays are standard

Mechanical
- Raven black color; metal case
- 6.9"W x 17.0"D x 16.7"H (with handle)
- 175mm W x 431mm D x 425mm H
- 27.56 lb (12.5kg) max configuration
- 25-liter
ThinkStation E32 SFF - Overview

Front view

1. Power Button
2. Media card reader (optional) or optional mSATA SSD drive
3. Front I/O: 2 USB 3.0 (blue)
   1 Headphone
   1 Microphone
4. 1 External 5.25” Bay for optical or optional slim optical + 3.5” hard drive bay or optional standalone 3.5” hard drive bay

Rear view

5. 240 watts Power Supply, 80 PLUS Bronze
6. Rear I/O: 2 USB 2.0
   4 USB 3.0 (blue)
   1 serial (9-pin)
   1 RJ-45 (GbE)
   1 line-in
   1 line-out
   1 microphone-in
   2 DisplayPort (for Intel HD Graphics)
   1 VGA (for Intel HD Graphics)

7.* 1 PCIe 3.0 x16
    1 PCIe 2.0 x1
    1 PCIe 2.0 x16 (x4 elec)
    1 PCI

* Discrete graphics adapter is optional

Internal
- One LGA1150 socket, supports one processor from Intel Xeon E3-1200 v3, Core i7-4000, and Core-i5 4000 families
- 4 DIMM sockets, supports up to 32GB ECC or non-ECC UDIMM memory
- Up to two 3.5” hard drive bays and one 2.5” hard drive bay, one 3.5” hard drive bay is standard

Mechanical
- Raven black color; metal case
- 13.35"W x 15.0”D x 3.93”H
- 338mm W x 375mm D x 102mm H
- 17.20 lb (7.8kg) max configuration
- 12.9-liter
# ThinkStation E32 Platform Specifications - I of III

## Chipset
- **ThinkStation E32 Tower**
- **ThinkStation E32 SFF**

**Intel C226 Chipset**

## Intel AMT
- Intel Active Management Technology 9 supported on models with Intel Xeon processors

## Processor
One LGA1150 socket, supports one processor from Intel Xeon E3-1200 v3, Core i7-4000, Core-i5 4000, and Pentium G3000 families, integrated 2-channel DDR3 memory controller, optional integrated processor graphics on selected processors.

The following processors are supported:

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Clock Speed</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory speed</th>
<th>ECC Memory Supported</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xeon E3-1220 v3</td>
<td>4</td>
<td>4</td>
<td>3.1 GHz</td>
<td>3.5 GHz</td>
<td>8 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics P4600</td>
</tr>
<tr>
<td>Xeon E3-1225 v3</td>
<td>4</td>
<td>4</td>
<td>3.2 GHz</td>
<td>3.6 GHz</td>
<td>8 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics P4600</td>
</tr>
<tr>
<td>Xeon E3-1230 v3</td>
<td>4</td>
<td>8</td>
<td>3.3 GHz</td>
<td>3.7 GHz</td>
<td>8 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics P4600</td>
</tr>
<tr>
<td>Xeon E3-1240 v3</td>
<td>4</td>
<td>8</td>
<td>3.4 GHz</td>
<td>3.8 GHz</td>
<td>8 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics P4600</td>
</tr>
<tr>
<td>Xeon E3-1245 v3</td>
<td>4</td>
<td>8</td>
<td>3.4 GHz</td>
<td>3.8 GHz</td>
<td>8 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics P4600</td>
</tr>
<tr>
<td>Xeon E3-1270 v3</td>
<td>4</td>
<td>8</td>
<td>3.5 GHz</td>
<td>3.9 GHz</td>
<td>8 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics P4600</td>
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<tr>
<td>Xeon E3-1275 v3</td>
<td>4</td>
<td>8</td>
<td>3.5 GHz</td>
<td>3.9 GHz</td>
<td>8 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics P4600</td>
</tr>
<tr>
<td>Xeon E3-1280 v3</td>
<td>4</td>
<td>8</td>
<td>3.6 GHz</td>
<td>4 GHz</td>
<td>8 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics P4600</td>
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<tr>
<td>Core i5-4670</td>
<td>4</td>
<td>4</td>
<td>3.4 GHz</td>
<td>3.8 GHz</td>
<td>6 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
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<tr>
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<td>4</td>
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<td>Yes</td>
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<td>3.9 GHz</td>
<td>8 MB</td>
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<td>Yes</td>
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<tr>
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<td>Yes</td>
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<tr>
<td>Core i3-4330</td>
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<td>4 MB</td>
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<td>Yes</td>
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<tr>
<td>Core i3-4130</td>
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<td>3 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics 4400</td>
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<tr>
<td>Pentium G3430</td>
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<td>2</td>
<td>3.3 GHz</td>
<td>3 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics</td>
<td></td>
</tr>
<tr>
<td>Pentium G3420</td>
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<td>2</td>
<td>3.2 GHz</td>
<td>3 MB</td>
<td>DDR3-1600</td>
<td>Yes</td>
<td>Intel HD Graphics</td>
<td></td>
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<tr>
<td>Pentium G3220</td>
<td>2</td>
<td>2</td>
<td>3 GHz</td>
<td>3 MB</td>
<td>DDR3-1333</td>
<td>Yes</td>
<td>Intel HD Graphics</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- All processors information is provided by Intel and may be changed at any time without notice. The information herein is provided “as-is”.
- Intel may update this information in non-scheduled. For latest information, please see [http://ark.intel.com/](http://ark.intel.com/)

## Memory type
1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable

## Memory DIMM sockets
Four 240-pin DIMM sockets

## Memory capacity
Up to 32GB ECC/non-ECC (8GBx4)

## Additional memory disclaimers
- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of ECC and non-ECC is not supported

## Intel HD Graphics in processor (optional)
Integrated Intel HD Graphics on Pentium, Core i3, i5, i7 and Xeon E3-12x5 v3 processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see [Rear ports](#) section)

## Discrete Graphics adapters
- Two PCI Express x16 slots for discrete graphics adapters:
  - One PCI Express 3.0 x16 slot (75W max, near CPU)
  - One PCI Express 2.0 x16 slot (4x electrical, 75W max)

Another NVIDIA Quadro, NVS graphics adapters

<table>
<thead>
<tr>
<th>Memory Size</th>
<th>CUDA Processor Cores</th>
<th>Display Connectors</th>
<th>Max. Displays</th>
<th>Power</th>
<th>Supported on ThinkStation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quado K2000</td>
<td>2GB</td>
<td>384</td>
<td>1 dual-link DVI-I 2 DisplayPort</td>
<td>4*</td>
<td>51W</td>
</tr>
<tr>
<td>Quado K2000D</td>
<td>2GB</td>
<td>384</td>
<td>1 dual-link DVI-I 1 DisplayPort 1 mini DisplayPort</td>
<td>4*</td>
<td>51W</td>
</tr>
<tr>
<td>Quado K600</td>
<td>1GB</td>
<td>192</td>
<td>1 dual-link DVI-I 1 DisplayPort</td>
<td>2</td>
<td>41W</td>
</tr>
<tr>
<td>Quado 410</td>
<td>512MB</td>
<td>192</td>
<td>1 dual-link DVI-I 1 DisplayPort</td>
<td>2</td>
<td>37W</td>
</tr>
<tr>
<td>NVS 510</td>
<td>2GB</td>
<td>192</td>
<td>4 mini DisplayPort (with 4 mini DP to DP dongles)</td>
<td>4</td>
<td>35W</td>
</tr>
</tbody>
</table>

* Quadro K2000 and Quadro K2000D are equipped with 3 onboard display connectors, 4 Displays require a supported DisplayPort 1.2 Multi-Stream capable hub or displays.
### ThinkStation E32 Platform Specifications - II of III

<table>
<thead>
<tr>
<th>From factor</th>
<th>ThinkStation E32 Tower</th>
<th>ThinkStation E32 SFF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Discrete Graphics adapters</strong></td>
<td><strong>Memory Size</strong> 1024MB, CUDA Processor Cores 48, Display Connectors DMS59 to dual single-link DVI-I or dual DisplayPort, Max. Displays 2, Power 19.5W, Supported on ThinkStation E32 Tower and E32 SFF</td>
<td>**Memory Size 512 MB, CUDA Processor Cores 48, Display Connectors 2 DisplayPort, Max. Displays 2, Power 19.5W, Supported on ThinkStation E32 Tower and E32 SFF</td>
</tr>
<tr>
<td><strong>Onboard drive controllers</strong></td>
<td>Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5 support, supports Intel Smart Response Technology</td>
<td>Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1 support, supports Intel Smart Response Technology</td>
</tr>
<tr>
<td><strong>Drive Bays</strong></td>
<td><img src="image" alt="Drive Bays Diagram" /></td>
<td><img src="image" alt="View of Drive Bays" /></td>
</tr>
<tr>
<td>Bay 1</td>
<td>Standard, 5.25”, 1.6” high, external, for optical or optional, 3.5”, 1” high, 3rd hard drive bay</td>
<td>Bay 1 Standard, 3.5”, 1” high, internal, primary hard drive bay</td>
</tr>
<tr>
<td>Bay 2</td>
<td>Optional, 3.5”, 1” high, supports one of the following: (1) for optional media card reader, external (2) for optional mSATA drive, internal</td>
<td>Bay 2 Standard, 5.25”, 1.6” high, external, for optical, also supports one of the following: (1) 5.25” slim optical (access) and 3.5” 2nd hard drive bay (internal), optional (2) 3.5” 2nd hard drive bay (internal), optional</td>
</tr>
<tr>
<td>Bay 3</td>
<td>Optional, 3.5”, 1” high, internal, primary hard drive bay</td>
<td>Bay 3 Optional, 2.5”, 0.6” high, internal, 3rd hard drive bay</td>
</tr>
<tr>
<td>Bay 4</td>
<td>Standard, 3.5”, 1” high, internal, 2nd hard drive bay</td>
<td>Bay 4 Optional, 3.5”, 0.5” high, supports one of the following: (1) for optional slim media card reader, external (2) for optional mSATA drive, internal (Bay 4 is not available on slim optical models)</td>
</tr>
<tr>
<td>Notes:</td>
<td>Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the corresponding hard drives only</td>
<td>Notes: Standard optical and hard drive bays are included in models; optional optical and hard drive bays are available on models with the corresponding drive bays only</td>
</tr>
<tr>
<td><strong>Hard drive(s)</strong></td>
<td>Supports the following: (1) Sata 6.0Gb/s, 7200 rpm, up to 3TB (250GB/500GB/1TB/2TB/3TB) (2) Sata 6.0Gb/s, 10000 rpm, up to 1TB (250GB/500GB/1TB) (3) Solid State Drive (SSD), Sata 6.0Gb/s, OPAL-capable on selected models, up to 480GB (4) mSATA SSD, Sata 6.0Gb/s, 24GB or 128GB (48GB mSATA SSD is only for Intel Smart Response Technology enabled models)</td>
<td>Supports the following: (1) Sata 6.0Gb/s, 7200 rpm, up to 3TB (250GB/500GB/1TB/2TB/3TB) (2) Sata 6.0Gb/s, 10000 rpm, up to 1TB (250GB/500GB/1TB) (3) Solid State Drive (SSD), Sata 6.0Gb/s, OPAL-capable on selected models, up to 480GB (4) mSATA SSD, Sata 6.0Gb/s, 24GB or 128GB (48GB mSATA SSD is only for Intel Smart Response Technology enabled models)</td>
</tr>
<tr>
<td><strong>Optical</strong></td>
<td>Supports DVD-ROM, DVDs+RW, or Blu-ray Burner, 1.6” high, SATA interface</td>
<td>Supports DVD-ROM, DVDs+RW, or Blu-ray Burner, 1.6” high, SATA interface</td>
</tr>
<tr>
<td><strong>Media reader (opt)</strong></td>
<td>Optional 29-in-1 media card reader on selected models</td>
<td>Optional 29-in-1 media card reader (slim) on selected models</td>
</tr>
<tr>
<td><strong>Front ports</strong></td>
<td>Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)</td>
<td>Optional 29-in-1 media card reader (slim) on selected models</td>
</tr>
<tr>
<td><strong>Rear ports</strong></td>
<td>One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)</td>
<td>One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)</td>
</tr>
<tr>
<td><strong>Expansion slots</strong></td>
<td>Slot 1: half-length, full-height, PCIe 3.0 x16 (75W max, near CPU) Slot 2: half-length, full-height, PCIe 2.0 x1 (x4 elec, 75W max) Slot 4: half-length, full-height, PCIe 2.3</td>
<td>Slot 1: Low Profile, PCIe 3.0 x16 (40W max, near CPU) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40W max) Slot 4: Low Profile, PCIe 2.3</td>
</tr>
<tr>
<td><strong>IEEE 1394 adapt (optional)</strong></td>
<td>Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear</td>
<td>Optional Low Profile FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>High Definition (HD) Audio, Realtek ALC662 codec</td>
<td>High Definition (HD) Audio, Realtek ALC662 codec</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
<td>Internal speaker for business audio</td>
<td>Internal speaker for business audio</td>
</tr>
<tr>
<td><strong>Onboard Ethernet</strong></td>
<td>One onboard gigabit ethernet, Intel I217LM</td>
<td>One onboard gigabit ethernet, Intel I217LM</td>
</tr>
<tr>
<td><strong>Keyboard</strong></td>
<td>Preferred Pro USB Keyboard (USB connector)</td>
<td>Preferred Pro USB Keyboard (USB connector)</td>
</tr>
<tr>
<td><strong>Mouse</strong></td>
<td>Optical Wheel Mouse, red wheel (USB connector)</td>
<td>Optical Wheel Mouse, red wheel (USB connector)</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>280 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified</td>
<td>240 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified</td>
</tr>
</tbody>
</table>
### Security
- Security chip: STMicro ST33ZP24AR28PVSP TCG 1.2-compliant
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Power-on/Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- USB port disablement (front or all/individual)
- Chassis intrusion switch available on selected models

### Mechanical
- Raven black color; metal case
- 6.9"W x 17.0"D x 16.7"H (with handle)
- 175mm W x 431mm D x 425mm H
- 27.56 lb (12.5kg) max configuration
- 25-liter

### Serviceability
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal (standard bays)
- Toolless adapter retention
- Illuminated front icons
- Recessed power button

### Environmental certifications
- GREENGUARD® certified
- RoHS-compliant
- EPEAT™ Gold rating
- ENERGY STAR 5.2-compliant

### Warranty
- 1 or 3-year limited warranty, parts and labor

### Preloaded operating systems
- One of the following, depending on model:
  - Windows 7 Professional 64
  - Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
  - Windows 8 Pro 64-bit

### Preloaded applications (only some listed)

<table>
<thead>
<tr>
<th>Preloaded applications (only some listed)</th>
<th>Preloaded OS</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel AppUp</td>
<td>Windows 7, 8</td>
<td></td>
</tr>
<tr>
<td>PC Device Stage</td>
<td>Windows 7, 8</td>
<td></td>
</tr>
<tr>
<td>Evernote</td>
<td>Windows 7, 8</td>
<td></td>
</tr>
<tr>
<td>Lenovo Companion</td>
<td>Windows 7, 8</td>
<td></td>
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<tr>
<td>Lenovo Solution Center</td>
<td>Windows 7, 8</td>
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<tr>
<td>Lenovo Support</td>
<td>Windows 7, 8</td>
<td></td>
</tr>
<tr>
<td>Norton Internet Security (30 days of virus definitions)</td>
<td>Windows 7, 8</td>
<td></td>
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<tr>
<td>Norton Studio</td>
<td>Windows 7, 8</td>
<td></td>
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<tr>
<td>Skype</td>
<td>Windows 7, 8</td>
<td></td>
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<tr>
<td>Cyberlink PowerDVD</td>
<td>Windows 7, 8</td>
<td>On models with DVD ROM, DVD±RW and BluRay</td>
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<tr>
<td>Cyberlink PowerDVD Create</td>
<td>Windows 7, 8</td>
<td>On models with DVD±RW</td>
</tr>
<tr>
<td>Cyberlink Power2Go</td>
<td>Windows 7, 8</td>
<td>On models with DVD±RW</td>
</tr>
<tr>
<td>Cyberlink Power Producer</td>
<td>Windows 7, 8</td>
<td>On models with Blu-Ray</td>
</tr>
<tr>
<td>Cyberlink PowerDVD Create</td>
<td>Windows 7, 8</td>
<td>On models with Blu-Ray</td>
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<tr>
<td>Cyberlink Power2Go</td>
<td>Windows 7, 8</td>
<td>On models with Blu-Ray</td>
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<tr>
<td>Microsoft Office preloaded, purchase product key to activate</td>
<td>Windows 7, 8</td>
<td></td>
</tr>
<tr>
<td>AutoCAD LT</td>
<td>Windows 7, 8</td>
<td>Only on models with Xeon processor</td>
</tr>
</tbody>
</table>

### ISV certifications
- For the latest list of certifications, please visit [www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)
## ThinkStation E32 Tower (30A1) - TopSeller (August 2013)

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
<th>Intel HD Graphics</th>
<th>Discrete graphics adapters</th>
<th>Pre-conf RAID</th>
<th>Storage</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>1394 adapter</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30A10002++</td>
<td>Core i7-4770</td>
<td>1600MHz</td>
<td>4GBx1</td>
<td>Intel HD 4600</td>
<td>1xQuadro K600</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVDaRW</td>
<td>Media</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64</td>
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<tr>
<td>30A1000E++</td>
<td>Xeon E3-1225v3</td>
<td>1600MHz</td>
<td>4GBx1</td>
<td>Intel HD 4600</td>
<td>1xQuadro K600</td>
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</table>

* Model in italics shows that this is a Global Model
** DL = Dual Link, SL = Single Link

### Chipset
- Intel C226 Chipset
- Intel AMT

### Processor
- One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors

### Memory
- 1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable

### Memory DIMM sockets
- Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)

### Additional memory disclaimers
- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of ECC and non-ECC is not supported
- Intel Core i5 processors support non-ECC memory only

### Intel HD Graphics in processor (optional)
- Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see Rear ports section)

### Discrete graphics adapters
- Two PCI Express x16 slots for discrete graphics adapters:
  - One PCI Express 3.0 x16 slot (75W max, near CPU)
  - One PCI Express 2.0 x16 slot (x4 electrical, 75W max)

### Onboard drive controllers
- Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5, 6, 10, 50, 60, mixed, supports Intel Smart Response Technology

### Storage
- Up to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm)/2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)

### Optical
- Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, SATA interface

### Media reader (opt)
- Optional 29-in-1 media card reader on selected models

### Front ports
- Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)

### Rear ports
- One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

### IEEE 1394 adptr (opt)
- Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear

### Audio
- High Definition (HD) Audio, Realtek® ALC662 codec

### Speaker
- Internal speaker for business audio

### Onboard Ethernet
- One onboard gigabit ethernet, Intel I217LM

### Security
- Security chip: STMicro ST332P4A28PVSP TCG 1.2-compliant
- Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)
- Power-on/Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- USB port disablement (front or all/individual)
- Chassis intrusion switch available on selected models

### Keyboard/Mouse
- 104-key keyboard (USB)/Optical Wheel Mouse (USB)

### Power supply
- 280 watts with variable speed fan, autosensing, 85% PSU, Energy Star 5.2 qualified

### Environmental certifications
- GREENGUARD® certified/ROHS-compliant/EPEAT Gold rating/
- ENERGY STAR 5.2 qualified

### ISV certifications
- For the latest list of certifications, please visit [www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)

### Limited warranty
- 3-year parts and labor

---

### Drives Bays

- **Bay 1:** Standard, 5.25", 1.6" high, external, for optical drive
- **Bay 2:** Standard, 5.25", 1.6" high, external, for optical or: optional, 3.5", 1" high, 3rd hard drive bay
- **Bay 3:** Optional, 3.5", 1" high, supports one of the following: (1) for optional media card reader, external (2) for optional mSATA drive, internal
- **Bay 4:** Standard, 3.5", 1" high, internal, primary hard drive bay
- **Bay 5:** Standard, 3.5", 1" high, internal, 2nd hard drive bay

**Notes:** Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the corresponding hard drives only

### Expansion Slots

1: half-length, full-height, PCIe 3.0 x16 (75W max, near CPU)
2: half-length, full-height, PCIe 2.0 x1
3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75W max)
4: half-length, full-height, PCI 2.3

### Mechanical
- Raven black color; metal case
- 6.90" W x 17.0" D x 16.7" H (with handle)
- 175mm W x 431mm D x 425mm H
- 25-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal (standard bays)
- Toolless adapter retention
- Illuminated front icons
- Recessed power button

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See footnotes for important warranty information
Model(s) announced August 20, 2013

© Lenovo

(30A1-1E) September 2013
### ThinkStation E32 Tower (30A1) - TopSeller (August 2013) - II

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
<th>Intel HD Graphics</th>
<th>Discrete graphics adapters*</th>
<th>Pre-conf RAID</th>
<th>Storage</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>1394 adpt</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
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<td>Media</td>
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<td>Switch</td>
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<td>** DL = Dual Link, SL = Single Link</td>
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* Model in italics shows that this is a Global Model

** DL = Dual Link, SL = Single Link

For detailed ThinkStation E32 Tower platform specifications, please see [ThinkStation E32 Platform Specifications](#).
### ThinkStation E32 Tower (30A1) - TopSeller (August 2013) - III

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th><em>Processor</em></th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
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<th>Discrete graphics adapters*</th>
<th>Pre-conf RAID</th>
<th>Storage</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>1394 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
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</table>

*Model in italics shows that this is a Global Model  ** DL = Dual Link, SL = Single Link

**For detailed ThinkStation E32 Tower platform specifications, please see ThinkStation E32 Platform Specifications sheet**

---

### Drives Bays

- **1** Bay 1 Standard, 5.25", 1.6" high, external, for optical
- **2** Bay 2 Standard, 5.25", 1.6" high, external, for optical or: optional, 3.5", 1" high, 3rd hard drive bay
- **3** Bay 3 Optional, 3.5", 1" high, supports one of the following: (1) for optional media card reader, external (2) for optional mSATA drive, internal
- **4** Bay 4 Standard, 3.5", 1" high, internal, primary hard drive bay
- **5** Bay 5 Standard, 3.5", 1" high, internal, 2nd hard drive bay

*Notes: Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the corresponding hard drives only*

---

### Expansion Slots

1. half-length, full-height, PCIc 3.0 x16 (75w max, near CPU)
2. half-length, full-height, PCIe 2.0 x1
3. half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
4. half-length, full-height, PCI 2.3

### Mechanical

- Raven black color; metal case
- 6.9"W x 17.0"D x 16.7"H (with handle)
- 175mm W x 431mm D x 425mm H
- 27.56 lb (12.5kg) max configuration
- 25-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal (standard bays)
- Toolless adapter retention
- Illuminated front icons
- Recessed power button
<table>
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For detailed ThinkStation E32 Tower platform specifications, please see ThinkStation E32 Platform Specifications sheet.

Chipset
Intel C226 Chipset

Processor
One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors

Memory
1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable

Memory DIMM sockets
Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)

Additional memory disclaimers
- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of ECC and non-ECC is not supported
- Intel Core i7 processors support non-ECC memory only

Intel HD Graphics in processor (optional)
Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see Rear ports section)

Discrete graphics adapters
Two PCI Express x16 slots for discrete graphics adapters:
- One PCI Express 3.0 x16 slot (75W max, near CPU)
- One PCI Express 2.0 x16 slot (x4 electrical, 75W max)

Onboard drive controllers
Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5, 10, 6, 5, 10, 11, supports Intel Smart Response Technology

Storage
Up to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm/2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s))

Optical
Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, 4GBx1

Media reader (opt)
Optional 29-in-1 media card reader on selected models

Front ports
Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)

Rear ports
One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

IEEE 1394 adptr
Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbits, two 6-pin ports on rear

Audio
High Definition (HD) Audio, Realtek® ALC662 codec

Speaker
Internal speaker for business audio

Onboard Ethernet
One onboard gigabit ethernet, Intel I217LM

Security
- Security chip: STMicro ST332P24AR2BPVSP TCG 1.2-compliant
- Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)
- Power-on/Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- USB port disablement (front or all/individual)
- Chassis intrusion switch available on selected models

Keybard/Mouse
104-key keyboard (USB)/Optical Wheel Mouse (USB)

Power supply
280 watts with variable fan speed, autoselecting, 85% PSU, MBPSU, Climate Savers® Computing Bronze, 80 PLUS® Bronze qualified

Environmental certifications
GREENGUARD© certified/ROHS-compliant/EPEAT® Gold rating/ENERGY STAR 5.2 qualified

TSV certifications
For the latest list of certifications, please visit www.lenovo.com/support/TSV

Limited warranty
3 years parts and labor
For detailed ThinkStation E32 Tower platform specifications, please see ThinkStation E32 Platform Specifications sheet.
## ThinkStation E32 Tower (30A1) - TopSeller (March 4, 2014)

### Chipset
- Intel C226 Chipset
- Intel AMT

### Processor
- One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors

### Memory
- 1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable
- Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBX4)

### Additional memory disclaimers
- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of ECC and non-ECC is not supported
- Intel Core i7 processors support non-ECC memory only

### Intel HD Graphics in processor (optional)
- Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see Rear ports section)

### Discrete graphics adapters
- Two PCI Express x16 slots for discrete graphics adapters:
  - One PCI Express 3.0 x16 slot (75W max, near CPU)
  - One PCI Express 2.0 x16 slot (x4 electrical, 75W max)

### Onboard drive controllers
- Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5, support, supports Intel Smart Response Technology

### Storage
- Up to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm)/2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)

### Optical
- Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, SATA interface

### Media reader (opt)
- Optional 29-in-1 media card reader on selected models

### Front ports
- Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)

### Rear ports
- One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

### IEEE 1394 adptr (opt)
- Optional FireWire PCIe adapter on selected models, 1594a-2000, 400Mbps, 2-6 pin ports on rear

### Audio
- High Definition (HD) Audio, Realtek ALC662 codec

### Speaker
- Internal speaker for business audio

### Onboard Ethernet
- One onboard gigabit ethernet, Intel I217LM

### Security
- Security chip: STMicro ST332P24AR28PVS TCG 1.2-compliant
- Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)
- Power-on/Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- USB port disablement (front or all/individual)
- Chassis intrusion switch available on selected models

### Keyboard/Mouse
- 104-key keyboard (USB)/Optical Wheel Mouse (USB)

### Power supply
- 280 watts with variable speed fan, autosensing, 85% PSU, Climate Savers® Computing Bronze, 80 PLUS® Bronze qualified

### Environmental certifications
- GREENGUARD Gold certified/EPEAT Gold rating/ENERGY STAR 5.2 qualified

### ISV certifications
- For the latest list of certifications, please visit [www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)

### Limited warranty
- 3-year parts and labor

---

*Model in italics shows that this is a Global Model
*DL = Dual Link, SL = Single Link
***IWS= International Warranty Service

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**For detailed ThinkStation E32 Tower platform specifications, please see ThinkStation E32 Platform Specifications sheet**
### ThinkStation E32 Tower (30A1) - TopSeller (March 25, 2014)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory (Mbit/opt ECC)</th>
<th>Memory DIMMs</th>
<th>Intel HD Graphics</th>
<th>Discrete graphics adapters</th>
<th>Pre-conf RAID</th>
<th>Storage</th>
<th>Optical</th>
<th>29-in-1 Media adapter</th>
<th>1394 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30A1006B++</td>
<td>Xeon E3-1230 v3 (4C/3.5GHz/8MB/1600MHz)</td>
<td>1600MHz ECC</td>
<td>2GBx2</td>
<td>No</td>
<td>Quadro K600 (1GB, 1xDVI-I, 1xDP 41W)</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
<tr>
<td>30A1006C++</td>
<td>Xeon E3-1245 v3 (4C/3.4GHz/8MB/1600MHz)</td>
<td>1600MHz ECC</td>
<td>2GBx2</td>
<td>Intel HD P4600</td>
<td>Open</td>
<td>No</td>
<td>1x500GB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
<tr>
<td>30A1006D++</td>
<td>Xeon E3-1275 v3 (4C/3.5GHz/8MB/1600MHz)</td>
<td>1600MHz ECC</td>
<td>2GBx2</td>
<td>Intel HD P4600</td>
<td>Open</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
</tbody>
</table>

*Model in italics shows that this is a Global Model       *DL = Dual Link, SL = Single Link   ***IWS= International Warranty Service

For detailed ThinkStation E32 Tower platform specifications, please see [ThinkStation E32 Platform Specifications sheet](#).

### Drive Bays

- Bay 1: Standard, 5.25", 1.6" high, external, for optical
- Bay 2: Standard, 5.25", 1.6" high, external, for optical or: optional, 3.5", 1" high, 3rd hard drive bay
- Bay 3: Optional, 3.5", 1" high, supports one of the following: (1) for optional media card reader, external (2) for optional mSATA drive, internal
- Bay 4: Standard, 3.5", 1" high, internal, primary hard drive bay
- Bay 5: Standard, 3.5", 1" high, internal, 2nd hard drive bay

Notes:
Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the corresponding hard drives only

### Expansion Slots

1: half-length, full-height, PCIe 3.0 x16 (75W max, near CPU)
2: half-length, full-height, PCIe 2.0 x1
3: half-length, full-height, PCIe 2.0 x1 (x4 exc, 75W max)
4: half-length, full-height, PCI 2.3

### Mechanical

- Raven black color; metal case
- 6.9"W x 17.0"D x 16.7"H (with handle)
- 175mm W x 431mm D x 425mm H
- 27.56 lb (12.5kg) max configuration
- 25-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless adapter retention
- Illuminated front icons
- Recessed power button

See footnotes for important warranty information

Model(s) announced March 25, 2014
### ThinkStation E32 Tower (30A0) - August 2013

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
<th>Intel HD Graphics</th>
<th>Discrete graphics adapters</th>
<th>Pre-conf RAID</th>
<th>Storage</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>1394 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30A0000B++</td>
<td>XeonE3-1230v3 (4C/3.5GHz/8MB/1600MHz)</td>
<td>1600MHz Non-ECC</td>
<td>2GBx2</td>
<td>1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
<td></td>
</tr>
<tr>
<td>30A0000C++</td>
<td>XeonE3-1245v3 (4C/3.5GHz/8MB/1600MHz)</td>
<td>1600MHz Non-ECC</td>
<td>4GBx1</td>
<td>Intel HD P4600</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
<td></td>
</tr>
</tbody>
</table>

* Model in italics shows that this is a Global Model  ** DL = Dual Link, SL = Single Link  
Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

**For detailed ThinkStation E32 Tower platform specifications, please see ThinkStation E32 Platform Specifications sheet**

---

**Chipset**
- C226 Chipset
- Intel AMT
- Intel Active Management Technology 9 supported on models with Intel Xeon processors

**Processor**
- One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors

**Memory**
- 1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable
- Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)

**Additional memory disclaimers**
- Actual memory operating speed depends on processor, memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of ECC and non-ECC is not supported
- Intel Core i3/i7 processors support non-ECC memory only

**Intel HD Graphics in processor (optional)**
- Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see Rear ports section)

**Discrete graphics adapters**
- Two PCI Express x16 slots for discrete graphics adapters:
  - One PCI Express 3.0 x16 slot (75W max, near CPU)
  - One PCI Express 2.0 x16 slot (x4 electrical, 75W max)

**Onboard drive controllers**
- Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5, support supports Intel Smart Response Technology

**Storage**
- Up to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm)/2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)

**Optical**
- Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, SATA interface

**Media reader (opt)**
- Optional 29-in-1 media card reader on selected models

**Front ports**
- Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)

**Rear ports**
- One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

**IEEE 1394 adptr (opt)**
- Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear

**Audio**
- High Definition (HD) Audio, Realtek® ALC662 codec

**Speaker**
- Internal speaker for business audio

**Onboard Ethernet**
- One onboard gigabit ethernet, Intel I217LM

**Security**
- Security chip: STMicro ST332P24AR28P VSP TCG 1.2-compliant
- Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)
- Power-on/Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- USB port disablement (front or all/individual)
- Chassis intrusion switch available on selected models

**Keyboard/Mouse**
- 104-key keyboard (USB)/Optical Wheel Mouse (USB)

**Power supply**
- 280 watts with variable speed fan, autosensing, 85% PSU, Climate Savers® Computing Bronze, 80 PLUS® Bronze qualified

**Environmental certifications**
- GREENGUARD® certified/ROHS-compliant/EPEAT™ Gold rating/ENERGY STAR 5.2 qualified

**ISV certifications**
- For the latest list of certifications, please visit www.lenovo.com/support/ISV

**Limited warranty**
- 3-year parts and labor

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**Drives Bays**

<table>
<thead>
<tr>
<th>Bay</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Standard, 5.25&quot;, 1.6&quot; high, external, for optical or: optional, 3.5&quot;, 1 high, 3rd hard drive bay</td>
</tr>
<tr>
<td>2</td>
<td>Optional, 3.5&quot;, 1 high, supports one of the following: (1) for optional media card reader, external (2) for optional mSATA drive, internal</td>
</tr>
<tr>
<td>3</td>
<td>Standard, 3.5&quot;, 1 high, internal, primary hard drive bay</td>
</tr>
<tr>
<td>4</td>
<td>Standard, 3.5&quot;, 1 high, internal, 2nd hard drive bay</td>
</tr>
</tbody>
</table>

**Notes:**
- Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the corresponding hard drives only

**Expansion Slots**

<table>
<thead>
<tr>
<th>Slot</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>half-length, full-height, PCIe 3.0 x16 (75W max, near CPU)</td>
</tr>
<tr>
<td>2</td>
<td>half-length, full-height, PCIe 2.0 x1</td>
</tr>
<tr>
<td>3</td>
<td>half-length, full-height, PCI 2.3</td>
</tr>
</tbody>
</table>

**Mechanical**

- Raven black color; metal case
- 6.9"W x 17.0"D x 16.7"H (with handle)
- 175mm W x 431mm D x 425mm H
- 27.56 lb (12.5kg) max configuration
- 25-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal (standard bays)
- Toolless adapter retention
- Illuminated front icons
- Recessed power button
ThinkStation E32 Tower (30A0) - October 2013

For detailed ThinkStation E32 Tower platform specifications, please see ThinkStation E32 Platform Specifications sheet

Chipset
Intel C226 Chipset

Intel AMT
Intel Active Management Technology 9 supported on models with Intel Xeon processors

Processor
One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors

Memory
1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable

Memory DIMM sockets
Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)

Additional memory disclaimers
• Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
• Mixing of ECC and non-ECC is not supported
• Intel Core i3 processors support non-ECC memory only

Intel HD Graphics in processor (optional)
Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see Rear ports section)

Discrete graphics adapters
Two PCI Express x16 slots for discrete graphics adapters:
• One PCI Express 3.0 x16 slot (75W max, near CPU)
• One PCI Express 2.0 x16 slot (x4 electrical, 75W max)

Onboard drive controllers
Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5, 5+0, supports Intel Smart Response Technology

Storage
Up to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm/2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)

Optical
Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, SATA interface

Media reader (opt)
Optional 29-in-1 media card reader on selected models

Front ports
Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)

Rear ports
One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

IEEE 1394 adptr (opt)
Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio
High Definition (HD) Audio, Realtek® ALC662 codec

Speaker
Internal speaker for business audio

Onboard Ethernet
One onboard gigabit ethernet, Intel I217LM

Security
• Security chip: STMicro ST332P24AR28PVSP TCG 1.2-compliant
• Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)
• Power-on/Administrator password
• Boot sequence control
• Boot without keyboard, mouse
• Serial port I/O control
• USB port disablement (front or all/individual)
• Chassis intrusion switch available on selected models

Keyboard/Mouse
104-key keyboard (USB)/Optical Wheel Mouse (USB)

Power supply
280 watts with variable speed fan, autosensing, 85% PSU, Energy Star 5.2 qualified

Environmental certifications
GREENGUARD® certified/RoHS-compliant/EPEAT® Gold rating/ENERGY STAR 5.2 qualified

ISV certifications
For the latest list of certifications, please visit www.lenovo.com/support/ISV

Limited warranty
3-year parts and labor

Drives Bays

Chassis
Bays:
1: half-length, full-height, Intel Xeon 3.0 x16 (75W max, near CPU)
2: half-length, full-height, Intel Core i7-4770 (1600MHz, 2-channel capable)
3: half-length, full-height, Intel Core i5-4570 (1600MHz, 2-channel capable)
4: half-length, full-height, PCI 2.3

Expansion Slots

Mechanical
• Raven black color; metal case
• 6.9" W x 17.0" D x 16.7" H (with handle)

Notes:
Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the corresponding hard drives only
ThinkStation E32 SFF (30A3) - TopSeller (August 2013)

Product Specifications Reference (PSREF)

**Chips**
- **Processor**: Intel C226 Chipset
- **Intel AMT**: Intel Active Management Technology
- **Memory DIMMs**: 4GBx1
- **Intel HD Graphics**: Intel HD 4600
- **Discrete graphics adapters**: Two PCI Express x16 slots for discrete graphics adapters:
  - One PCI Express 3.0 x16 slot (40W max, near CPU)
  - One PCI Express 2.0 x16 slot (4x, 40W max)
- **Onboard drive controllers**: Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, supports Intel Smart Response Technology
- **Storage**:
  - Up to two 3.5" SATA (6.0Gb/s, 7200rpm) drives or up to three 2.5" SATA (6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; or up to one mSATA SSD drive (SATA 6.0Gb/s)
- **Optical**: Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high or slim, SATA interface
- **Media reader (opt)**: Optional 29-in-1 media card reader on selected models
- **Front ports**: Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)
- **Rear ports**: One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)
- **IEEE 1394 adptr (opt)**: 1394a-2000, 400Mbp, two 6-pin ports on rear
- **Audio**: High Definition (HD) Audio, Realtek* ALC662 codec
- **Internal speaker**: for business audio
- **Illuminated front icons**: Toolless top cover removal
- **Toolless disk and optical drive**: Bay 1: Standard, 3.5", 1" high, internal, primary hard drive bay
  - Bay 2: Optional, 2.5", 0.6" high, internal, 3rd hard drive bay
  - Bay 3: Optional, 3.5", 0.5" high, supports one of the following:
    - (1) 5.25" slim optical (access) and 3.5" 2nd hard drive bay (internal)
    - (2) 3.5" 2nd hard drive bay (internal)
  - Bay 4: Optional, 3.5", 0.5" high, supports one of the following:
    - (1) for optional slim media card reader, external
    - (2) for optional mSATA drive, internal
- **Standard optical and hard drive bays**: is not available on slim optical models
- **Notes**: Expansion Slots
  - Low Profile, PCIe 3.0 x16 (40W max, near CPU)
  - Low Profile, PCIe 2.0 x1
  - Low Profile, PCIe 2.0 x16 (x4 elec, 40W max)
  - Low Profile, PCIe 2.3
- **Mechanical**
  - Raven black color; metal case
  - 13.35"W x 15.0"D x 3.93"H
  - 338mm W x 375mm D x 102mm H
  - 17.20 lb (7.6kg) max configuration
  - 12.9-liter
  - Toolless top cover removal
  - Toolless disk and optical drive removal
  - Toolless adapter retention
  - Illuminated front iconic
  - Recessed power button

**Certifications**
- **Environmental certifications**: GREENGUARD™ certified/RoHS-compliant/EPEAT™ Gold rating/ENERGY STAR 5.2 qualified
- **Limited warranty**: 3-year parts and labor

---

* Model in italics shows that this is a Global Model       ** DL = Dual Link, SL = Single Link

**Country Code** *++*: The models are available for all WE countries, except UK, EAST and MEA

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**See footnotes for important warranty information**

Model(s) announced August 20, 2013

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(30A3-1E) September 2013
**ThinkStation E32 SFF (30A3) - TopSeller (August 2013) - II**

**Type-model** | Processor | Memory (MHz/typ) | Memory DIMMs | Intel HD Graphics | Discrete graphics adapters* | Pre-conf RAID | Storage | Optical | 29-in-1 Media reader | 1394 adptr | Chassis Intrusion switch | Preloaded OS |
---|---|---|---|---|---|---|---|---|---|---|---|---|
30A3001H++ | Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz) | 1600MHz | 4GBx1 | 1xQuadro 4100 (512MB, 1xDVI-I DL, 1xDP, 37W) | No | 1x1TB 3.5" SATA | DVD±RW | Media | No | Switch |
30A3001K++ | Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz) | 1600MHz | 2GBx2 | 1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W) | No | 1x1TB 3.5" SATA | DVD±RW | Media | No | Switch |
30A3001L++ | Xeon E3-1225v3 (4C/3.2GHz/8MB/1600MHz) | 1600MHz | 4GBx1 | Intel HD P4600 | No | 1x500GB 3.5" SATA | DVD±RW | Media | No | Switch |

* Model in italics shows that this is a Global Model

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**For detailed ThinkStation E32 SFF platform specifications, please see [ThinkStation E32 Platform Specifications sheet](#)**

**Chipset**

- **Intel C226 Chipset**
- **Intel AMT**
  - Intel Active Management Technology 9 supported on models with Intel Xeon processors

**Processor**

- One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors

**Memory**

- 1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable
- Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)
- **Additional memory disclaimers**
  - Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
  - Mixing of ECC and non-ECC is not supported
  - Intel Core i5/i7 processors support non-ECC memory only

**Intel HD Graphics in processor (optional)**

- Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see **Rear ports** section)

**Discrete graphics adapters**

- Two PCI Express x16 slots for discrete graphics adapters:
  - One PCI Express 3.0 x16 slot (40W max, near CPU)
  - One PCI Express 2.0 x16 slot (x4 electrical, 40W max)

**Onboard drive controllers**

- Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1 support, supports Intel Smart Response Technology

**Storage**

- Up to two 3.5" SATA (SATA 6.0Gb/s, 7200rpm) drives or up to three 2.5" SATA (SATA 6.0Gb/s, 1000rpm) / SATA SSD (SATA 6.0Gb/s); up to one mSATA SSD drive (SATA 6.0Gb/s)

**Optical**

- Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high or slim, SATA interface

**Media reader (opt)**

- Optional 29-in-1 media card reader on selected models
- Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)

**Rear ports**

- One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

**IEEE 1394 adptr (opt)**

- Optional Low Profile FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear

**Audio**

- High Definition (HD) Audio, Realtek® ALC662 codec
- Internal speaker for business audio

**Onboard Ethernet**

- One onboard gigabit ethernet, Intel I217LM

**Security**

- Security chip: STMicro ST332P24AR2BPVSP, TCG 1.2-compliant
- Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)
- Power-on/Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- USB port disablement (front or all/individual)
- Chassis intrusion switch available on selected models

**Keyboard/Mouse**

- 104-key keyboard (USB)/Optical Wheel Mouse (USB)

**Power supply**

- 240 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified

**Environmental certifications**

- GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ENERGY STAR 5.2 qualified

**ISV certifications**

- For the latest list of certifications, please visit [www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)

**Limited warranty**

- 3-year parts and labor

---

**Drives Bays**

<table>
<thead>
<tr>
<th>Bay 1</th>
<th>Bay 2</th>
<th>Bay 3</th>
<th>Bay 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard, 3.5&quot;, 1&quot; high, internal, primary hard drive bay</td>
<td>Standard, 5.25&quot;, 1.6&quot; high, external, for optical, also supports one of the following: (1) 5.25&quot; slim optical (access) and 3.5&quot; 2nd hard drive bay (internal), optional</td>
<td>Optional, 2.5&quot;, 0.6&quot; high, internal, 3rd hard drive bay</td>
<td>Optional, 3.5&quot;, 0.6&quot; high, supports one of the following: (1) for optional slim media card reader, external (2) for optional mSATA drive, internal (Bay 4 is not available on slim optical models)</td>
</tr>
</tbody>
</table>

**Notes:**

- Standard optical and hard drive bays are included in models; optional optical and hard drive bays are available on models with the corresponding drives only

**Expansion Slots**

1. Low Profile, PCIe 3.0 x16 (40W max, near CPU)
2. Low Profile, PCIe 2.0 x1
3. Low Profile, PCIe 2.0 x16 (x4 elec, 40W max)
4. Low Profile, PCIe 2.3

**Mechanical**

- Raven black color; metal case
- 13.35"W x 15.0"D x 3.93"H
- 338mm W x 375mm D x 102mm H
- 17.20 lb (7.8kg) max configuration
- 12.9-liter
- Toolless top cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Recessed power button

---

**Chassis**

- Raven black color; metal case
- 13.35"W x 15.0"D x 3.93"H
- 338mm W x 375mm D x 102mm H
- 17.20 lb (7.8kg) max configuration
- 12.9-liter
- Toolless top cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Recessed power button

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See footnotes for important warranty information

Model(s) announced August 20, 2013

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(30A3-2E) September 2013
## ThinkStation E32 SFF (30A3) - TopSeller (October 2013)

### Product Specifications Reference (PSREF)

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</table>

*Model in italics shows that this is a Global Model  
**DL = Dual Link, SL = Single Link  
***IWS= International Warranty Service

Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

For detailed ThinkStation E32 SFF platform specifications, please see ThinkStation E32 Platform Specifications sheet

### Chipset

- **Intel C226 Chipset**
- **Intel AMT**
- **Intel Xeon Processors**
- **Intel HD Graphics**

### Additional memory disclaimers

- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of ECC and non-ECC is not supported
- Intel Core i5/7 processors support non-ECC memory only

### Drives Bays*

#### Bay 1
- Standard, 3.5", 1" high, internal, primary hard drive bay

#### Bay 2
- Standard, 5.25", 1.6" high, external, for optical, also supports one of the following:
  1. 5.25" slim optical (access) and 3.5" 2nd hard drive bay (internal), optional
  2. 3.5" 2nd hard drive bay (internal), optional

#### Bay 3
- Optional, 2.5", 0.6" high, internal, 3rd hard drive bay

#### Bay 4
- Optional, 3.5", 0.5" high, supports one of the following:
  1. For optional slim media card reader, external
  2. For optional mSATA drive, internal

* Image above is for reference only. Model in this image contains optional slim optical + 3.5" 2nd hard drive bay with supplemental fan (Bay 2) and optional 2.5" 3rd hard drive bay (Bay 3)

**Notes:**
Standard optical and hard drive bays are included in models; optional optical and hard drive bays are available on models with the corresponding drives only

### Expansion Slots

1. Low Profile, PCIe 3.0 x16 (40W max, near CPU)
2. Low Profile, PCIe 2.0 x1
3. Low Profile, PCIe 2.0 x16 (x4 elec, 40W max)
4. Low Profile, PCIe 2.3

### Mechanical

- Raven black color; metal case
- 13.35"W x 15.0"D x 3.93"H
- 338mm W x 375mm D x 102mm H
- 17.20 lb (7.6kg) max configuration
- 12.9-litter
- Toolless top cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Recessed power button

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See footnotes for important warranty information

Model(s) announced October 22, 2013
ThinkStation E32 SFF (30A2) - August 2013

For detailed ThinkStation E32 SFF platform specifications, please see ThinkStation E32 Platform Specifications sheet

Chipset
- Intel C226 Chipset

Intel AMT
- Intel Active Management Technology 9 supported on models with Intel Xeon processors

Processor
- One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors

Memory
- 1600MHz UDIMMs, DDR3, ECC or non-ECC, 2-channel capable

Memory DIMM sockets
- Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)

Additional memory disclaimers
- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of ECC and non-ECC is not supported
- Intel Core i3/i5 processors support non-ECC memory only

Intel HD Graphics in processor (optional)
- Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see Rear ports section)

Discrete graphics adapters
- Two PCI Express x16 slots for discrete graphics adapters:
  - One PCI Express 3.0 x16 slot (40W max, near CPU)
  - One PCI Express 2.0 x16 slot (x4 electrical, 40W max)

Onboard drive controllers
- Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5, 10, supports Intel Smart Response Technology

Storage
- Up to two 3.5" SATA (6.0Gb/s, 7200rpm) drives, or up to three 2.5" SATA (6.0Gb/s, 10000rpm)/SATA SSD (6.0Gb/s) drives; up to one mSATA SSD drive (6.0Gb/s)

Optical
- Supports DVD-ROM, DVD±RW, or Blu-ray Burner, but supports 1.6" high or slim, SATA interface

Media reader (opt)
- Optional 29-in-1 media card reader on selected models

Front ports
- Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)

Rear ports
- One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one Ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

IEEE 1394 adptr (opt)
- Optional Low Profile FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio
- High Definition (HD) Audio, Realtek ALC662 codec

Speaker
- Internal speaker for business audio

Onboard Ethernet
- One onboard gigabit ethernet, Intel I217LM

Security
- Security chip: STMicro ST332P24AR2BPVSP TC1.2-compliant
- Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)
- Power-on/Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- Serial port I/O control
- USB port disablement (front or all/individual)
- Chassis intrusion switch available on selected models

Keyboard/Mouse
- 104-key keyboard (USB)/Optical Wheel Mouse (USB)

Power supply
- 240 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified

Environmental certifications
- GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ENERGY STAR 5.2 qualified

ISV certifications
- For the latest list of certifications, please visit www.lenovo.com/support/ISV

Limited warranty
- 3-year parts and labor

Pre-conf RAID
- No

Storage
- 1x1TB 3.5" SATA

29-in-1 Media reader
- No

1394 adptr
- Switch

Chassis intrusion switch
- Win7 Pro64 (Downgrade from Win8)

Preloaded OS
- Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

Notes:
- Optional low profile FireWire PCIe adapter on selected models
- Optional 29-in-1 media card reader, external (Bay 4 is not available on slim optical models)
- Standard optical and hard drive bays are included in models; optional optical and hard drive bays are available on models with the corresponding drives only

Expansion Slots
- 1: Low Profile, PCIe 3.0 x16 (40W max, near CPU)
- 2: Low Profile, PCIe 2.0 x1
- 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40W max)
- 4: Low Profile, PCIe 2.3

Mechanical
- Raven black color; metal case
- 13.35"W x 15.0"D x 3.93"H
- 338mm W x 375mm D x 102mm H
- 17.20 lb (7.6kg) max configuration
- 12.9-litter
- Toolless top cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Recessed power button

Drives Bays*
- Bay 1: Standard, 3.5" high, internal, primary hard drive bay
- Bay 2: Standard, 5.25", 1.6" high, external, for optical, also supports one of the following:
  - (1) 5.25" slim optical (access) and 3.5" 2nd hard drive bay (internal)
  - (2) 3.5" 2nd hard drive bay (internal), optional
- Bay 3: Optional, 2.5", 0.6" high, internal, 3rd hard drive bay
- Bay 4: Optional, 3.5", 0.5" high, supports one of the following:
  - (1) optional slim media card reader, external
  - (2) optional mSATA drive, internal

Notes:
- Optional slim optical x 3.5" 2nd hard drive bay with supplemental fan (Bay 2) and optional 2.5" 3rd hard drive bay (Bay 3)
### ThinkStation E32 SFF (30A2) - October 2013

#### Product Specifications Reference (PSREF)

**Model(s) announced October 8, 15, or 22, 2013**  
Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

- *Model in italics shows that this is a Global Model*  
- DL = Dual Link, SL = Single Link  
- **IWS= International Warranty Service**  

#### Chipset

- **Intel C226 Chipset**

#### Intel AMT

- Intel Active Management Technology 9 supported on models with Intel Xeon processors

#### Processor

- One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors

#### Memory

- 1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable

#### Memory DIMM sockets

- Four 24-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)

#### Additional memory disclaimers

- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs  
- Mixing of ECC and non-ECC is not supported  
- Intel Core i5/i7 processors support non-ECC memory only

#### Intel HD Graphics in processor (optional)

- Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see Rear ports section)

#### Discrete graphics adapters

- Two PCI Express x16 slots for discrete graphics adapters:  
  - One PCI Express 3.0 x16 slot (40W max, near CPU)  
  - One PCI Express 2.0 x16 slot (40W max, near CPU)

#### Onboard drive controllers

- Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5, 10, 6, supports Intel Smart Response Technology

#### Storage

- Up to two 3.5" SATA (SATA 6.0Gb/s, 7200rpm) drives or up to three 2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives;  
- up to one mSATA SSD drive (SATA 6.0Gb/s)

#### Optical

- Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high or slim, SATA interface

#### Media reader (opt)

- Optional 29-in-1 media card reader on selected models

#### Front ports

- Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)

#### Rear ports

- One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

#### Audio

- High Definition (HD) Audio, Realtek® ALC662 codec

#### Onboard Ethernet

- One onboard gigabit ethernet, Intel® I217LM

#### Security

- Security chip: STMicro ST332P24AR2BPKV, TCG 1.2-compliant  
- Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)  
- Power-on/Administrator password  
- Boot sequence control  
- Boot without keyboard, mouse  
- Serial port I/O control  
- USB port disablement (front or all/individual)  
- Chassis intrusion switch available on selected models

#### Keyboard/Mouse

- 104-key keyboard (USB)/Optical Wheel Mouse (USB)

#### Power supply

- 240 watts with variable speed fan, autosensing, 85% PSU,  
- Climate Savers Computing Bronze, 80 PLUS Bronze qualified

#### Environmental certifications

- GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ENERGY STAR 5.2 qualified

#### ISV certifications

- For the latest list of certifications, please visit [www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)

#### Limited warranty

- 3-year parts and labor

#### Base warranty (year)**

- 3(IWS) 10/15/13  
- 3(IWS) 10/8/13  
- 3(IWS) 10/22/13

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**For detailed ThinkStation E32 SFF platform specifications, please see ThinkStation E32 Platform Specifications sheet**

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### Drives Bays

- **Bay 1** Standard, 3.5", 1" high, internal, primary hard drive bay
- **Bay 2** Standard, 5.25", 1.6" high, external, for optical, also supports one of the following:  
  - (1) 5.25" slim optical (access) and 3.5" 2nd hard drive bay (internal), optional  
  - (2) 3.5" 2nd hard drive bay (internal), optional
- **Bay 3** Optional, 2.5", 0.6" high, internal, 3rd hard drive bay
- **Bay 4** Optional, 3.5", 0.5" high, supports one of the following:  
  - (1) for optional slim media card reader, external  
  - (2) for optional mSATA drive, internal  
  - (Bay 4 is not available on slim optical models)

#### Notes:

- Standard optical and hard drive bays are included in models; optional optical and hard drive bays are available on models with the corresponding drives only

#### Expansion Slots

1. Low Profile, PCIe 3.0 x16 (40W max, near CPU)
2. Low Profile, PCIe 2.0 x1
3. Low Profile, PCIe 2.0 x16 (x4 elec, 40W max)
4. Low Profile, PCIe 2.3

#### Mechanical

- Raven black color; metal case  
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- 338mm W x 375mm D x 102mm H  
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- Toolless top cover removal  
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- Recessed power button