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Notes:
1. ThinkStation S30 support one processor.
2. Intel Xeon processor numbering system is an alpha numeric representation of product line, product family and version. An ‘L’ suffix will be used to identify a low power processor.
3. All 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/products/family/59138/Intel-Xeon-Processor-E5-Family/server
## Memory

| UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets; 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8) |

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

## Graphics adapters and GPU computing

Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology (Quadro 5000 and Quadro K5000 SLI), NVIDIA Maximus technology, supports the following NVIDIA Quadro, NVS graphics adapters and Tesla GPU computing processors:

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<th>Memory Size</th>
<th>CUDA Processor Cores</th>
<th>Display Connectors</th>
<th>Max. Displays</th>
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<td></td>
<td></td>
</tr>
<tr>
<td>NVS 315</td>
<td>1024MB</td>
<td>48</td>
<td>DMS59 to dual single-link DVI-I or dual DisplayPort</td>
<td>2</td>
<td>1</td>
<td>19.5W</td>
</tr>
<tr>
<td>NVS 310</td>
<td>512 MB</td>
<td>48</td>
<td>2 DisplayPort</td>
<td>2</td>
<td>1</td>
<td>19.5W</td>
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<tr>
<td>NVS 300</td>
<td>512 MB</td>
<td>16</td>
<td>DMS59 to dual single-link DVI-I</td>
<td>2</td>
<td>1</td>
<td>17.5W</td>
</tr>
</tbody>
</table>

**NVIDIA Tesla GPU Computing Processors (as part of NVIDIA Maximus Platform)**

<table>
<thead>
<tr>
<th>Tesla K20</th>
<th>5GB</th>
<th>2496</th>
<th>225W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tesla C2075</td>
<td>6GB</td>
<td>448</td>
<td>225W</td>
</tr>
</tbody>
</table>

* Quadro K4000, K2000, and K2000D are equipped with 3 onboard display connectors, 4 Displays require a supported DisplayPort 1.2 Multi-Stream capable hub or displays

**Notes:**
1. ThinkStation S30 support NVIDIA Maximus technology. Maximus technology combines the visualization and interactive design capability of NVIDIA Quadro graphics and the high performance computing power of NVIDIA Tesla GPU computing processors in a single workstation. For more information on the latest Maximus certifications for ThinkStation and how to build Maximus system, please see [www.nvidia.com/object/maximus.html](http://www.nvidia.com/object/maximus.html)
2. CUDA Processor Cores cannot be compared between GPU generations due to several important architectural differences that exist between streaming multiprocessor designs.
### Onboard drive controllers
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1 support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1 support

### Upgrade ROM for onboard drive controllers (opt)
Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support

### Discrete drive controller (opt)
**One the following, depending on model:**
- LSI SAS 9240-8i: SATA 6.0Gb/s, RAID 0, 1 support
- LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support

### Hard drive(s)
- **Supports the following:**
  - 3.5" SATA: SATA 6.0Gb/s, 7200 rpm, up to 4TB
  - 3.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash
  - 2.5" SATA: SATA 6.0Gb/s, 10000 rpm, up to 1TB
  - 2.5" SAS: SAS 6.0Gb/s, 15000 rpm, up to 600GB
  - 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models, up to 300GB

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

### Drive Bays
- Two external 5.25" bays for opticals, three internal 3.5" bays for hard drives

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

### Front ports
- **MT type 0568, 0569, and 0606:** Two USB 2.0, microphone (3.5mm), headphone (3.5mm)
- **Others MT types:** Two USB 3.0, microphone (3.5mm), headphone (3.5mm)

### Rear ports
- Eight USB 2.0, two 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)
- None. 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 82579

### Keyboard
- Preferred Pro USB Keyboard (USB connector), 104-key, black

### Mouse
- Optical Wheel Mouse (USB connector), black

### Power supply
- 610 watts with 120mm bottom-mounted variable speed fan, universal, **Climate Savers® Computing Gold, 80 PLUS Gold** qualified

### Security
- **Security chip:**
  - **MT type 0568, 0569, and 0606:** STMicroelectronics ST19WP18 for TPM function, TCG 1.2-compliant
  - **Others MT types:** STMicroelectronics ST33TPM12LPC for TPM function, TCG 1.2-compliant
  - Side cover lock (ships with two identical keys)
  - Padlock loop (in rear for opt padlock; padlock prohibits side cover removal)
  - Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
  - Administrator password
  - Boot sequence control
  - Boot without keyboard, mouse, diskette
  - USB 2.0 ports enable/disable individually
  - USB 3.0 ports enable/disable concurrently
  - Chassis intrusion switch (optional)

### Mechanical
- **Raven black color; metal case**
- **175mm W x 460mm D x 478mm H**
- 38.5 lb (17.5kg) max configuration
- 31-liter

### Expansion slots
- **Slot 1:** full-length, full-height, PCIe 3.0 x16** (near CPU)
- **Slot 2:** full-length, full-height, PCIe 3.0 x16 (x4 electrical)
- **Slot 3:** full-length, full-height, PCIe 3.0 x16**
- **Slot 4:** full-length, full-height, 32-bit PCI 2.3
- **Slot 5:** half-length, full-height, PCIe 2.0 x4
  * Adapters >75W use auxiliary power connector(s) from PSU

### Serviceability
- **Removable handle on top front**
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support
<table>
<thead>
<tr>
<th>ISV certifications</th>
<th>Please visit <a href="http://www.lenovo.com/support/ISV">www.lenovo.com/support/ISV</a></th>
</tr>
</thead>
</table>
| Environmental certifications | GREENGUARD® certified  
RoHS-compliant  
EPEAT™ Gold rating |
| Warranty | 1 or 3-year limited warranty, parts and labor |
| ThinkVantage® | Supports ThinkVantage® technologies |
| Preloaded operating systems | One 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) | **For Windows 7 models:**  
• Rescue and Recovery®  
• Norton® Internet Security (30 days of virus definitions)  
• Adobe® Reader®  
• Adobe Flash® Player  
• Microsoft® Office preloaded; purchase product key to activate  
• Corel® WinDVD® (DVD±RW model(s))  
• Ulead® DVD MovieFactory® (DVD±RW model(s)) |
| | **For Windows 8 models:**  
• Evernote®  
• Norton Internet Security (30 days of virus definitions)  
• Norton Studio  
• Skype™  
• Microsoft Office 2013 preloaded; purchase product key to activate  
• Cyberlink Power2Go (DVD±RW model(s))  
• Cyberlink PowerProducer (DVD±RW model(s)) |
**ThinkStation S30 (4352) - TopSeller (June 2013)**

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor(s)</th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
<th>Upgrade ROM for onboard drive controller</th>
<th>Discrete drive controller</th>
<th>Pre-conf RAID</th>
<th>Hard drive(s)</th>
<th>Optical</th>
<th>Media reader</th>
<th>Graphics adapter(s) and GPU computing</th>
<th>1394 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4352-17G</td>
<td>E5-1607</td>
<td>1600MHz UDIMM</td>
<td>4Gb x1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA DVDaRW</td>
<td>29-in-1</td>
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<td>No</td>
<td>No</td>
<td>Switch</td>
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<td>E5-1620</td>
<td>1600MHz UDIMM</td>
<td>4Gb x1</td>
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<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA DVDaRW</td>
<td>29-in-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
</tr>
<tr>
<td>4352-19G</td>
<td>E5-1620</td>
<td>1600MHz UDIMM</td>
<td>4Gb x2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA DVDaRW</td>
<td>29-in-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
</tr>
<tr>
<td>4352-21G</td>
<td>E5-1603</td>
<td>1600MHz UDIMM</td>
<td>4Gb x1</td>
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<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA DVDaRW</td>
<td>29-in-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>Switch</td>
</tr>
<tr>
<td>4352-22G</td>
<td>E5-1620</td>
<td>1600MHz UDIMM</td>
<td>4Gb x2</td>
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<td>No</td>
<td>No</td>
<td>2x146GB 2.5&quot; SAS DVDaRW</td>
<td>29-in-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
</tr>
</tbody>
</table>

1 Model in italics shows that this is a Global Model
2 The SSD drives in italics must be plugged into red or orange SATA connectors

- 3-year limited warranty
- With new MT type 4351/4352 and beyond, ThinkStation S30 introduces new updates to improve the functionality and usability:
  - New TPM chip: STMicroelectronics ST33TPM12LPC
  - Two front USB 2.0 ports upgrade to USB 3.0

For ThinkStation S30 Platform Specifications, please see [ThinkStation S30 Platform Specifications](#)

### Chipset

**Intel C602 Chipset**

**Processor**

One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller

**Memory**

UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32Gb x8)

**Additional memory disclaimers**

- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of RDIMM and UDIMM is not supported

**Graphics adapters and GPU computing**

Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

**Onboard drive controllers**

- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

**Upgrade ROM for onboard drive controllers (opt)**

Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1, 5 support

**Discrete drive controller (opt)**

One the following, depending on model:

- LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1 support
- LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support

**Hard drives**

- 3.5" SATA: SATA 6.0Gb/s, 7200 rpm
- 2.5" SATA: SATA 6.0Gb/s, 10000 rpm
- 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm
- 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models

**Optical**

Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface

**Media reader (opt)**

Optional media card reader on selected models

**Front ports**

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

**Rear ports**

Eight USB 2.0, two 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)**

None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbp/s, two 6-pin ports on rear

**Audio**

High Definition (HD) Audio, Healtek® ALC662 codec

**Speaker**

Internal speaker for business audio

**Onboard Ethernet**

One onboard gigabit ethernet, Intel 82579

**Security chip**

STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant

**Keyboard**

Preferred Pro USB Keyboard (USB connector), 104-key, black

**Mouse**

Optical Wheel Mouse (USB connector), black

**Power supply**

610 watts with 120mm bottom-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

**Preloaded operating systems (OS)**

One 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

---

See footnotes for important warranty information

Model(s) announced June 18, 2013

© Lenovo (G-FOR1-4) June 2013
## ThinkStation S30 (4352) - TopSeller (June 2013) - II

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor(s)</th>
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<th>Memory DIMMs</th>
<th>Upgrade ROM for onboard drive controller</th>
<th>Discrete drive controller</th>
<th>Pre-conf RAID</th>
<th>Hard drive(s)</th>
<th>Optical</th>
<th>Media reader</th>
<th>Graphics adapter(s) and GPU computing</th>
<th>1394 adpter</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>E5-1620</td>
<td>One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller</td>
<td>UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)</td>
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<tr>
<td>E5-1620</td>
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<td>DVD±RW</td>
<td>29-in-1</td>
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<td>Win7 Pro64 (Downgrade from Win8)</td>
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<td>4GBx3</td>
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<td>2x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td></td>
<td></td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
</tbody>
</table>

### Chipset
- **Intel C602 Chipset**

### Processor
- One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller

### Memory
- UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)

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

### Graphics adapters and GPU computing
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

### Onboard drive controllers
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

### Upgrade ROM for onboard drive controllers (opt)
- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, 3 SATA controllers, SATA 3.0Gb/s, RAID 0, 1, support

### Discrete drive controller (opt)
- One the following, depending on model:
  - LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support
  - LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support

### Hard drives
- 3.5" SATA: SATA 6.0Gb/s, 7200 rpm
- 2.5" SATA: SATA 6.0Gb/s, 10000 rpm
- 3.5" SSD: SATA 6.0Gb/s, 15000 rpm
- 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models

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

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

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

### Rear ports
- Two USB 3.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

### IEEE 1394 adpter (opt)
- None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear

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

### Speaker
- Internal speaker for business audio

### Onboard Ethernet
- One onboard gigabit ethernet, Intel 82579

### Security chip
- STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant

### Keyboard
- Preferred USB Keyboard (USB connector), 104-key, black

### Mouse
- Optical Wheel Mouse (USB connector), black

### Power supply
- 610 watts with 120mm front-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

### Preloaded operating systems (OS)
- One 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

---

### Chipset
- **Intel C602 Chipset**

### Processor
- One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller

### Memory
- UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)

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

### Graphics adapters and GPU computing
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

### Onboard drive controllers
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

### Upgrade ROM for onboard drive controllers (opt)
- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, 3 SATA controllers, SATA 3.0Gb/s, RAID 0, 1, support

### Discrete drive controller (opt)
- One the following, depending on model:
  - LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support
  - LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support

### Hard drives
- 3.5" SATA: SATA 6.0Gb/s, 7200 rpm
- 2.5" SATA: SATA 6.0Gb/s, 10000 rpm
- 3.5" SSD: SATA 6.0Gb/s, 15000 rpm
- 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models

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

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

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

### Rear ports
- Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

### IEEE 1394 adpter (opt)
- None. 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 82579

### Security chip
- STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant

### Keyboard
- Preferred USB Keyboard (USB connector), 104-key, black

### Mouse
- Optical Wheel Mouse (USB connector), black

### Power supply
- 610 watts with 120mm front-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

### Preloaded operating systems (OS)
- One 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

---

### Tower
- **1 optical**
- **2 optical**
- **4 disk**
- **6 disk**
- **6 disk**

### Security
- Security chip (see information on left)
- Side cover lock (ships with two identical keys)
- Padlock loop (in rear for opt padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Administrator password
- Boot without keyboard, mouse, diskette
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

### Slot 1
- Full-length, full-height, PCIe 3.0 x16 (near CPU)

### Slot 2
- Full-length, full-height, PCIe 3.0 x16 (x4 electrical)

### Slot 3
- Full-length, full-height, PCIe 3.0 x16**

### Slot 4
- Full-length, full-height, 32-bit PCI 2.3

### Slot 5
- Half-length, full-height, PCIe 2.0 x4

** Adapters >15W use auxiliary power connector(s)

---

### Intel AMT
- Intel Active Management Technology 8

### ISV certifications
- Please visit www.lenovo.com/support/ISV

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

### Supports ThinkVantage® technologies
### ThinkStation S30 (4352) - TopSeller (June 2013) - III

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor(s)</th>
<th>Memory (MHz/Type)</th>
<th>Memory DIMMs</th>
<th>Upgrade ROM for onboard drive controller</th>
<th>Discrete drive controller</th>
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<th>Hard drive(s)</th>
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<th>Media reader</th>
<th>Graphics adapter(s) and GPU computing</th>
<th>1394 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4352-28G</td>
<td>E5-1650 (6C/3.2GHz/12MB/1600)</td>
<td>1600MHz</td>
<td>4GBx2</td>
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<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro K2000 2GB, 1xVX-D 2D:1 1xVX-D 2D:1 1xVX-D 2D:1</td>
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<td>1x300GB 3.5&quot; SAS</td>
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<td>29-in-1</td>
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<td>4352-31G</td>
<td>E5-1620 (4C/3.6GHz/10MB/1600)</td>
<td>1600MHz</td>
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<td>4352-32G</td>
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<tr>
<td>4352-33G</td>
<td>E5-1620 (4C/3.6GHz/10MB/1600)</td>
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<td>1x128GB 2.5&quot; SSD</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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</tbody>
</table>

* DL = Dual Link, SL = Single Link

### Chipset
- **Intel C602 Chipset**

### Processor
- One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller

### Memory
- **UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)**

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

### Graphics adapters and GPU computing
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

### Onboard drive controllers
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, eight SATA 6.0Gbps (red), two SATA 3.0Gbps (orange), RAID 0, 1, support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gbps, RAID 0, 1, 5, support

### Upgrade ROM for onboard drive controllers (opt)
- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gbps, SATA 3.0Gbps, RAID 0, 1 support

### Discrete drive controller (opt)
- One the following, depending on model:
  - LSI SAS 9240-8i: SATA 6.0Gbps, SAS 6.0Gbps/RAID 0, 1 support
  - LSI SAS 9260-8i: SATA 6.0Gbps, RAID 0, 1, 5 support

### Hard drives
- 3.5" SATA:
  - SATA 6.0Gbps, 7200 rpm
- 2.5" SATA:
  - SATA 6.0Gbps, 10000 rpm
- 3.5" SAS/2.5" SAS:
  - SATA 6.0Gbps, 15000 rpm
- 2.5" SSD:
  - Solid State Drive (SSD), SATA 6.0Gbps, OPAL-enabled on selected models

### Optical
- Supports DVD-ROM, DVD±RW, Blu-ray Burner, SATA interface

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

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

### Rear ports
- Eight USB 2.0, two 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)
- None, Optional FireWire PCle 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 82579

### Security
- Security chip (see information on left)
- Side cover lock (ships with two identical keys)
- Padlock loop (in rear for optional padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O enable/disable
- USB 2.0 ports enable/disable individually
- USB 3.0 ports enable/disable concurrently
- Chassis intrusion switch on selected model(s)

### Intel AMT
- Intel Active Management Technology 8

### ISV certifications
- Please visit www.lenovo.com/support/ISV

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

### Supports ThinkVantage® technologies
## ThinkStation S30 (4352) - TopSeller (June 2013) - IV

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<tr>
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<th>Upgrade ROM for onboard drive controller</th>
<th>Discrete drive controller</th>
<th>Pre-conf RAID</th>
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<th>Optical</th>
<th>Media reader</th>
<th>Graphics adapter(s) and GPU computing</th>
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<th>Preloaded OS</th>
</tr>
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<tbody>
<tr>
<td>4352-34G</td>
<td>E5-1650 (6C/2.6GHz/12MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx2 No</td>
<td>No</td>
<td>No</td>
<td>1x3TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<td>4352-35G</td>
<td>E5-1620 (4C/2.6GHz/10MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx2 No</td>
<td>No</td>
<td>No</td>
<td>1x250GB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro 410 (512MB, 1xDVI-I DL, 1xDP, 37W)</td>
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<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<td>4352-36G</td>
<td>E5-1650 (6C/3.2GHz/12MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx2 No</td>
<td>No</td>
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<td>1x500GB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro 410 (512MB, 1xDVI-I DL, 1xDP, 37W)</td>
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<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<tr>
<td>4352-37G</td>
<td>E5-1650 (6C/2.6GHz/12MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx2 No</td>
<td>No</td>
<td>No</td>
<td>1x1TB 2.5&quot; SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro K2000 (2GB, 1xDVI-I DL, 2xDP, 51W)</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<tr>
<td>4352-38G</td>
<td>E5-2603 (4C/1.8GHz/10MB/1066)</td>
<td>1600MHz UDIMM</td>
<td>4GBx2 No</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
</tbody>
</table>

1. Model in italics shows that this is a Global Model
2. The SSD drives in italics must be plugged into red or orange SATA connectors

---

### Chipset
- **Intel C602 Chipset**

### Processor
- One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller

### Memory
- UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)

### Additional memory disclaimers
- Actual memory operating speed depends on processor memory controller speed, integral memory speed, and quantity of memory DIMMs
- Mixing of RDIMM and UDIMM is not supported

### Graphics adapters and GPU computing
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

### Onboard drive controllers
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1 support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

### Upgrade ROM for onboard drive controllers (opt)
- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support

### Discrete drive controller (opt)
- One the following, depending on model:
  - LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1 support, optional upgrade key for RAID 5 support
  - LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support

### Hard drives
- 3.5" SATA: SATA 6.0Gb/s, 7200 rpm
- 2.5" SATA: SATA 6.0Gb/s, 10000 rpm
- 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm
- 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models

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

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

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

### Rear ports
- Eight USB 2.0, two 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)
- None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear

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

### Speaker
- Internal speaker for business audio

### Onboard Ethernet
- One onboard gigabit ethernet, Intel 82579

### Security chip
- SMICe electronics ST33TPM12LPC

### Keyboard
- Preferred Pro USB Keyboard (USB connector), 104-key, black

### Mouse
- Optical Wheel Mouse (USB connector), black

### Power supply
- 610 watts with 120mm bottom-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

### Preloaded operating systems (OS)
- One 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

---

**3-year limited warranty**

**With new MT type 4351/4352 and beyond, ThinkStation S30 introduces new updates to improve the functionality and usability:**

(These new features are not supported on 0568, 0569, and 0606 MT models)
- New TPM chip: STMicroelectronics ST33TPM12LPC
- Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation S30 Platform Specifications, please see [ThinkStation S30 Platform Specifications sheet](#)

---

**Chassis intrusion switch**

**Preloaded OS**

- Intel AMT
- Intel Active Management Technology 8
- ISV certifications
- Please visit [www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)
- Environmental certifications
- GREENGUARD® certified
- RoHS-compliant
- EPEAT™ Gold rating
- Supports ThinkVantage® technologies

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See footnotes for important warranty information

Model(s) announced June 18, 2013

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(G-FOR4-4) June 2013
ThinkStation S30 (4352) - TopSeller (June 2013) - V

Product Specifications Reference (PSREF)

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<th>Discrete drive controller</th>
<th>Pre-conf RAID</th>
<th>Hard drive(s)</th>
<th>Optical</th>
<th>Media reader</th>
<th>Graphics adapter(s) and GPU computing</th>
<th>1394 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4352-9GG</td>
<td>E5-2609 (4C/2.4GHz/10MB/1066)</td>
<td>1600MHz DDIMM 4Gb x 2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5” SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro K6000 (1GB, 1xVXI-I DL, 1xDP, 1W)</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<td>4352-41G</td>
<td>E5-2683 (4C/3.3GHz/10MB/1600)</td>
<td>1600MHz UDIMM 4Gb x 2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5” SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro K2000 (2GB, 1xVXI-I DL, 2xDP, 5W)</td>
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<td>Switch</td>
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<td>4352-42G</td>
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<td>1600MHz UDIMM 4Gb x 2</td>
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<td>1x1TB 3.5” SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro K4000 (3GB, 1xVXI-I DL, 2xDP, 80W)</td>
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<td>4352-43G</td>
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<td>1x1TB 3.5” SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro K4000 (3GB, 1xVXI-I DL, 2xDP, 80W)</td>
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<td>4352-44G</td>
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<td>No</td>
<td>1x1TB 3.5” SATA</td>
<td>DVD±RW</td>
<td>29-in-1</td>
<td>1xQuadro K4000 (3GB, 1xVXI-I DL, 2xDP, 80W)</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
<td></td>
</tr>
</tbody>
</table>

1 Model in italics shows this is a Global Model
2 The SSD drives in italics must be plugged into red or orange SATA connectors

- 3-year limited warranty
- With new MT type 4351/4352 and beyond, ThinkStation S30 introduces new updates to improve the functionality and usability:
  - (These new features are not supported on 0568, 0569, and 0606 MT models)
  - New TPM chip: STMicroelectronics ST33TPM12LPC
  - Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation S30 Platform Specifications, please see ThinkStation S30 Platform Specifications sheet

**Chipset**
- Intel C602 Chipset

**Processor**
- One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller

**Memory**
- UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)

**Additional memory disclaimers**
- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of RDIMM and UDIMM is not supported

**Graphics adapters and GPU computing**
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

**Onboard drive controllers**
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

**Upgrade ROM for onboard drive controllers (opt)**
- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1, 5 support

**Discrete drive controller (opt)**
- One the following, depending on model:
  - LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1 support
  - LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support

**Hard drives**
- 3.5” SATA: SATA 6.0Gb/s, 7200 rpm
- 2.5” SATA: SATA 6.0Gb/s, 10000 rpm
- 3.5” SAS/2.5” SAS: SAS 6.0Gb/s, 15000 rpm
- 2.5” SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models

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

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

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

**Rear ports**
- Eight USB 2.0, two 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)**
- None

**Audio**
- High Definition (HD) Audio, Healek™ ALC662 codec

**Speaker**
- Internal speaker for business audio

**Onboard Ethernet**
- One onboard gigabit ethernet, Intel 82579

**Security chip**
- STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant

**Keyboard**
- Preferred Pro USB Keyboard (USB connector), 104-key, black

**Mouse**
- Optical Wheel Mouse (USB connector), black

**Power supply**
- 610 watts, with 120mm bottom-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

**Preloaded operating systems (OS)**
- One 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

See footnotes for important warranty information

Model(s) announced June 18, 2013

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(G-FOR5-4) June 2013
### ThinkStation S30 (4352) - TopSeller (June 2013) - VI

#### Chipset
- Intel C602 Chipset

#### Processor
- One LGA2011 socket, supports one processor from Intel Xeon E5-2600 family, integrated 4-channel DDR3 memory controller

#### Memory
- UDIMM or RDimM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)

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

#### Graphics adapters and GPU computing
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

#### Onboard drive controllers
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

#### Upgrade ROM for onboard drive controllers (opt)
- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support

#### Discrete drive controller (opt)
- One the following, depending on model:
  - LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1 support
  - LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, SAS 3.0Gb/s, RAID 0, 1, 5 support

#### Hard drives
- 3.5" SATA: SATA 6.0Gb/s, 7200 rpm
- 2.5" SATA: SATA 6.0Gb/s, 10000 rpm
- 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm
- 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models

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

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

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

#### Rear ports
- Eight USB 2.0, two 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)
- None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mb/s, 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 82579

#### Security chip
- STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant

#### Keyboard
- Preferred Pro USB Keyboard (USB connector), 104-key, black

#### Mouse
- Optical Wheel Mouse (USB connector), black

#### Power supply
- 610 watts with 120mm bottom-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

#### Preloaded operating systems (OS)
- One 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

#### Tower
- Raven black color: metal case
- 6.9"W x 18.1"D x 18.8"H (with handle)
- 175mm W x 460mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 31-litter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

#### SECURITY
- Security chip (see information on left)
- Side cover lock (ships with two identical keys)
- Padlock loop (in rear for opt padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O enable/disable
- USB 2.0 ports enable/disable individually
- USB 3.0 ports enable/disable concurrently
- Chassis intrusion switch on selected model(s)

#### Product Specifications Reference (PSREF)

**Model(s) announced June 18, 2013**

---

1. Model in italics shows that this is a Global Model
2. The SSD drives in italics must be plugged into red or orange SATA connectors

---

**Footnotes**

- DL = Dual Link, SL = Single Link
### ThinkStation S30 (4352) - TopSeller (June 2013) - VII

**Product Specifications Reference (PSREF)**

**DVD±RW**
- 4GBx5
- 1x1TB 3.5" SATA

**One LGA2011 socket, supports one**

**Intel C602 Chipset**

**C6-1650**
- (6C/3.2GHz/12MB/1600)
- 1600MHz UDIMM
- 4GBx2
- No No No 1x1TB 3.5" SATA DVD±RW 29-in-1

**E5-1650**
- (6C/3.2GHz/12MB/1600)
- 1600MHz UDIMM
- 4GBx3
- No No No 1x1TB 3.5" SATA DVD±RW 29-in-1

**E5-1620**
- (6C/3.2GHz/12MB/1600)
- 1600MHz UDIMM
- 4GBx3
- No No No 1x1TB 3.5" SATA DVD±RW 29-in-1

**E5-1650**
- (6C/3.2GHz/12MB/1600)
- 1600MHz UDIMM
- 4GBx3
- No No No 1x1TB 3.5" SATA DVD±RW 29-in-1

**3-year limited warranty**

**With new MT type 4351/4352 and beyond, ThinkStation S30 introduces new updates to improve the functionality and usability:**

(These new features are not supported on 0568, 0569, and 0606 MT models)

- New TPM chip: STMicroelectronics ST33TPM12LPC
- Two front USB 2.0 ports upgrade to USB3.0

---

**Chipset**

**Intel C602 Chipset**

**Processor**

One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller

**Memory**

UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)

**Additional memory disclaimers**

- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of RDIMM and UDIMM is not supported

**Graphics adapters and GPU computing**

Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing, supports NVIDIA SLI technology, NVIDIA Maximus technology

**Onboard drive controllers**

- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

**Upgrade ROM for onboard drive controllers (opt)**

Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support

**Hard drives**

<table>
<thead>
<tr>
<th>SATA Type</th>
<th>Drive Capacity</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5&quot; SATA</td>
<td>6.0Gb/s, 7200 rpm</td>
<td></td>
</tr>
<tr>
<td>2.5&quot; SATA</td>
<td>6.0Gb/s, 10000 rpm</td>
<td></td>
</tr>
<tr>
<td>2.5&quot; SAS/2.5&quot; SAS</td>
<td>6.0Gb/s, 15000 rpm</td>
<td></td>
</tr>
<tr>
<td>2.5&quot; SSD</td>
<td>Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models</td>
<td></td>
</tr>
</tbody>
</table>

**Optical**

- Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface

**Front ports**

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

**Rear ports**

- Eight USB 2.0, two 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)**

None. 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 82579

**Security chip**

STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant

**Keyboard**

Preferred Pro USB Keyboard (USB connector), 104-key, black

**Mouse**

- Optical Wheel Mouse (USB connector), black
- 610 watts, with 120mm bottom-mounted variable speed fan, universal

**Audio**

High Definition (HD) Audio, Realtek ALC662 codec

**Preloaded operating systems (OS)**

- Windows 7 Professional 64
- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Windows 8 Pro 64-bit

---

**See footnotes for important warranty information Model(s) announced June 18, 2013 © Lenovo**

(G-FOR7-4) June 2013

---

**Footnotes:**

1 Model in italics shows that this is a Global Model

2 The SSD drives in italics must be plugged into red or orange SATA connectors

---

**Credits:**

- Raven black color: metal case
- 6.9"W x 18.1"D x 18.8"H (with handle)
- 175mm W x 460mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 31-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

---

**Security**

- Security chip (see information on left)
- Side cover lock (shells with two identical keys)
- Padlock loop (in rear for opt padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O enable/disable
- USB 2.0 ports enable/disable individually
- USB 3.0 ports enable/disable concurrently
- Chassis intrusion switch on selected model(s)

**Intel AMT**

Intel Active Management Technology 8

**ISV certifications**

Please visit www.lenovo.com/support/ISV

**Environmental certifications**

GREENGUARD® certified
RoHS-compliant
EPEAT® Gold rating

**Supports ThinkVantage® technologies**
ThinkStation S30 (4352) - TopSeller (June 2013) - VIII

Product Specifications Reference (PSREF)

**Internal speaker for business audio**
- 1x1TB 3.5" SATA
- Switch
- E5-1650
- Optical
- 38.5 lb (17.5kg) max configuration
- One onboard gigabit ethernet, Intel 82579
- Win7 Pro64
- Processor(s)
- Optional media card reader on selected models
- 610 watts with 120mm bottom-mounted variable speed fan, universal
- High Definition (HD) Audio, Realtek
- 1x1TB 3.5" SATA
- Intel C602 Chipset
- No
- DVD±RW
- No

**With new MT type 4351/4352 and beyond, ThinkStation S30 introduces new updates to improve the functionality and usability:**
(These new features are not supported on 0568, 0569, and 0606 MT models)
- Intel AMT: upgrades to Intel AMT 8 from Intel AMT 7
- New TPM chip: STMicroelectronics ST33TPM12LPC
- Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation S30 Platform Specifications, please see ThinkStation S30 Platform Specifications sheet

---

**Chipset**
- Intel C602 Chipset

**Processor**
- One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller

**Memory**
- UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)

**Additional memory disclaimers**
- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of RDIMM and UDIMM is not supported

**Graphics adapters and GPU computing**
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

**Onboard drive controllers**
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 3.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1 support;
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

**Upgrade ROM for onboard drive controllers (opt)**
- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support

**Discrete drive controller (opt)**
- One the following, depending on model:
- LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1 support
- LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support

**Hard drives**
- 3.5" SATA:
  - SATA 6.0Gb/s, 7200 rpm
- 2.5" SATA:
  - SATA 6.0Gb/s, 10000 rpm
- 3.5" SAS/2.5" SAS:
  - SAS 6.0Gb/s, 15000 rpm
- 2.5" SSD:
  - Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models

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

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

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

**Rear ports**
- Eight USB 2.0, two 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)**
- None, Optional FireWire PCIe adapter on selected models, 9394a-2000, 400Mbps, two 6-pin ports on rear

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

**Speaker**
- Internal speaker for business audio

**Onboard Ethernet**
- One onboard gigabit ethernet, Intel 82579

**Security chip**
- STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant

**Keyboard**
- Preferred Pro USB Keyboard (USB connector), 104-key, black

**Mouse**
- Optical Wheel Mouse (USB connector), black

**Power supply**
- 610 watts with 120mm variable speed fan, universal
- Climate Savers® Computing Gold, 80 PLUS® Gold qualified

**Preloaded operating systems (OS)**
- None 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

---

**Security**
- Security chip (see information on left)
- Side cover lock (ships with two identical keys)
- Padlock loop (in rear for optional padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O enable/disable
- USB 2.0 ports enable/disable individually
- USB 3.0 ports enable/disable concurrently
- Chassis intrusion switch on selected model(s)

**Intel AMT**
- Intel Active Management Technology 8

**ISV certifications**
- Please visit www.lenovo.com/support/ISV

**Environmental certifications**
- GREENGUARD® certified
- RoHS-compliant
- EPEAT™ Gold rating

**Supports ThinkVantage® technologies**
**ThinkStation S30 (4352) - TopSeller (September 2013)**

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type- model</th>
<th>Processor(s) - Xeon E5 Family</th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
<th>Upgrade ROM for onboard drive controller</th>
<th>Pre-conf RAID</th>
<th>Hard drive(s)*</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>Graphics adapter(s) and GPU computing***</th>
<th>1944 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4352-A1G</td>
<td>E5-1607 v2 (4C/3.5GHz/10MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<tr>
<td>4352-A3G</td>
<td>E5-1620 v2 (4C/3.7GHz/10MB/1866)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<tr>
<td>4352-A5G</td>
<td>E5-1603 (4C/2.8GHz/10MB/1066)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x500GB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<tr>
<td>4352-A6G</td>
<td>E5-1620 v2 (4C/3.7GHz/10MB/1866)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
<tr>
<td>4352-A7G</td>
<td>E5-1620 v2 (4C/3.7GHz/10MB/1866)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
<tr>
<td>4352-A8G</td>
<td>E5-1650 v2 (6C/3.5GHz/12MB/166)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
<tr>
<td>4352-A9G</td>
<td>E5-1650 v2 (6C/3.5GHz/12MB/166)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x256GB 2.5&quot; SSD - OPAL</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
<tr>
<td>4352-B1G</td>
<td>E5-1620 v2 (4C/3.7GHz/10MB/1066)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x240GB 2.5&quot; SSD</td>
<td>DVD±RW</td>
<td>Media</td>
<td>No</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 ** The SSD drives in italics must be plugged into red or orange SATA connectors *** DL = Dual Link, SL = Single Link

3-year limited warranty

For ThinkStation S30 Platform Specifications, please see ThinkStation S30 Platform Specifications sheet

---

### Chipset

Intel C602 Chipset

Intel AMT Intel Active Management Technology 8 supported

Memory

- UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets,
- 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)

Additional memory disclaimers

- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of RDIMM and UDIMM is not supported

Graphics adapters and GPU computing

Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

Onboard drive controllers

- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support

Upgrade ROM for onboard drive controllers (opt)

Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support

Discrete drive controller (opt)

None

Hard drives

- 3.5" SATA: SATA 6.0Gb/s, 7200 rpm
- 3.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash
- 2.5" SATA: SATA 6.0Gb/s, 10000 rpm
- 2.5" SAS/2.5" SAS: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on some models

Optical

Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface

Media reader (opt)

Optional media card reader on selected models

Front ports

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

Rear ports

Eight USB 2.0, two 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)

None. 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® 82579

Security chip

STMicroelectronics ST33TPM12LPC, 16C 1.2-compliant

Keyboard/Mouse

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

Power supply

610 watts with 120mm bottom-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

Tower

- Raven black color; metal case
- 6.9"W x 18.1"D x 18.8"H (with handle)
- 175mm W x 460mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 31-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

Security

- Security chip (see information on left)
- Side cover lock (ships with two identical keys)
- Padlock loop (in rear for opt padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Security slot (in rear for optional Cisco® Microsaver® cable; prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Boot from boot device
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

ISV certifications

Please visit www.lenovo.com/support/ISV

Environmental certifications

GREENGUARD® certified
RoHS-compliant
EPEAT® Gold rating

Supports ThinkVantage® technologies

See footnotes for important warranty information

Model(s) announced September 10, 2013

(4352-9E) September 2013

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## Chipset

<table>
<thead>
<tr>
<th>Type/Model</th>
<th>Processor(s) - Xeon E5 Family</th>
<th>Memory (MHz/type)</th>
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<th>Hard drive(s)*</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>Graphics adapter(s) and GPU computing**</th>
<th>1394 adptr</th>
<th>Chassis Intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4352-B2G</td>
<td>E5-1620 v2 (6C/3.50GHz/12MB/1666)</td>
<td>1600MHz UDIMM</td>
<td>4Gb x 2</td>
<td>SAS</td>
<td>No</td>
<td>1x146GB 2.5” SAS</td>
<td>DVD±RW Media</td>
<td>1xQuadro K2000 (2GB, 1xDVI-I DL, 2xDP, 51W)</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
<td></td>
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<tr>
<td>4352-B3G</td>
<td>E5-1620 v2 (6C/3.50GHz/12MB/1666)</td>
<td>1600MHz UDIMM</td>
<td>4Gb x 2</td>
<td>No</td>
<td>1TB 3.5” SATA + 286GB 2.5” SSD</td>
<td>DVD±RW Media</td>
<td>1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)</td>
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<td>Switch</td>
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<td>4352-B4G</td>
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<td>1600MHz UDIMM</td>
<td>4Gb x 1</td>
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<td>1x240GB 2.5” SSD</td>
<td>DVD±RW Media</td>
<td>1xQuadro K2000 (2GB, 1xDVI-I DL, 2xDP, 51W)</td>
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<td>4352-B7G</td>
<td>E5-1620 v2 (4C/3.7GHz/10MB/1666)</td>
<td>1600MHz RDIMM</td>
<td>4Gb x 2</td>
<td>SAS</td>
<td>No</td>
<td>1x146GB 2.5” SAS</td>
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<td>4352-B8G</td>
<td>E5-1620 v2 (4C/3.7GHz/10MB/1666)</td>
<td>1600MHz RDIMM</td>
<td>4Gb x 2</td>
<td>No</td>
<td>1x1TB 3.5” SATA</td>
<td>DVD±RW Media</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<tr>
<td>4352-C1G</td>
<td>E5-1620 v2 (4C/3.7GHz/10MB/1666)</td>
<td>1600MHz UDIMM</td>
<td>4Gb x 2</td>
<td>No</td>
<td>1x1TB 3.5” SATA</td>
<td>DVD±RW Media</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<tr>
<td>4352-C2G</td>
<td>E5-1620 v2 (4C/3.7GHz/10MB/1666)</td>
<td>1600MHz RDIMM</td>
<td>4Gb x 1</td>
<td>No</td>
<td>1x1TB 3.5” SATA</td>
<td>DVD±RW Media</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

* Model in italics shows that this is a Global Model  
** The SSD drives in italics must be plugged into red or orange SATA connectors  
*** DL = Dual Link, SL = Single Link

---

## Tower

- **Chipset**: Intel C602 Chipset
- **Processor**: One LGA2011 socket, integrated 4-channel DDR3 memory controller
- **Memory**: UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 6GBx8/256GB max (RDIMM, 32GBx8)
- **Additional memory disclaimers**: Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs  
  - Mixing of RDIMM and UDIMM is not supported
- **Graphics adapters and GPU computing**: Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology
- **Onboard drive controllers**:  
  - Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, support  
  - Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5, support
- **Upgrade ROM for onboard drive controllers (opt)**: Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support
- **Hard drives**:  
  - 3.5” SATA: SATA 6.0Gb/s, 7200 rpm  
  - 3.5” Hybrid: Sata 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash  
  - 2.5” SATA: Sata 6.0Gb/s, 10000 rpm  
  - 2.5” SSD: Solid State Drive (SSD), SATA 6.0Gb/s Opal-capable on some models
- **Optical**: Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface
- **Media reader (opt)**: Optional media card reader on selected models
- **Front ports**: Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
- **Rear ports**: Eight USB 2.0, two 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)**: None. 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 82579
- **Security chip**: STMicroelectronics ST33TPM12LPC, 1C1.2-compliant
- **Keyboard/Mouse**: 104-key keyboard (USB)/Optical Wheel Mouse (USB)
- **Power supply**: 610 watts with 120mm bottom-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

---

## Environmental certifications

- GREENGUARD® certified
- RoHS-compliant
- EPEAT® Gold rating
- Supports ThinkVantage® technologies

---

See footnotes for important warranty information

© Lenovo (4352-10E) September 2013

Model(s) announced September 10, 2013
**ThinkStation S30 (4352) - TopSeller (March 2014)**

**Product Specifications Reference (PSREF)**

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**Chipset**

<table>
<thead>
<tr>
<th>Type-Model</th>
<th>Processor(s)</th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
<th>Upgrade ROM for onboard drive controller</th>
<th>Pre-conf RAID</th>
<th>Hard drive(s)</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>Graphics adapter(s) and GPU computing***</th>
<th>1394 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4352-M9G</td>
<td>E5-1620 v2 4C/3.7GHz/10MB/1666</td>
<td>1600MHz UDIMM</td>
<td>2GBx2</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5’’ SATA</td>
<td>DVD+RW</td>
<td>No</td>
<td>Open</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
<tr>
<td>4352-N1G</td>
<td>E5-1650 v2 6C/3.5GHz/12MB/1666</td>
<td>1600MHz UDIMM</td>
<td>2GBx2</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5’’ SATA</td>
<td>DVD+RW</td>
<td>No</td>
<td>Open</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  ** The SSD drives in italics must be plugged into red or orange SATA connectors  *** DL = Dual Link, SL = Single Link

---

**Tower**

- Raven black color; metal case
- 6.9’’W x 18.1’’D x 18.8’’H (with handle)
- 175mm W x 460mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 31-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

---

**Hard drives**

- 3.5’’ SATA: SATA 6.0Gb/s, 7200 rpm
- 3.5’’ Hybrid: SATA 6.0Gb/s, 2700 rpm, integrated 8GB NAND flash
- 2.5’’ SATA: SAS 6.0Gb/s, 10000 rpm
- 3.5’’ SAS/2.5’’ SAS: SAS 6.0Gb/s, 15000 rpm
- 2.5’’ SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on some models

---

**Security**

- Security chip (see information on left)
- Side cover lock (ships with two identical keys)
- Padlock loop (in rear for optional padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O enable/disable
- USB 2.0 ports enable/disable individually
- USB 3.0 ports enable/disable concurrently
- Chassis intrusion switch on selected model(s)

---

**ISV certifications**

Please visit [www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)

Environmental certifications

GREENGUARD® certified
RoHS-compliant
EPEAT® Gold rating

Supports ThinkVantage® technologies

---

**See footnotes for important warranty information**

Model(s) announced March 25, 2014

© Lenovo (4352-11E) March 2014
## ThinkStation S30 (4352) - TopSeller (April 2014)

### Product Specifications Reference (PSREF)

**ThinkStation S30 Platform Specifications**

- **3-year limited warranty**
- For ThinkStation S30 Platform Specifications, please see ThinkStation S30 Platform Specifications sheet

---

### Chipset

- **Intel C602 Chipset**

### Processor

- **Xeon E5-1620 v2**
- **Xeon E5-1620 v2**
- **Xeon E5-1620 v2**
- **Xeon E5-1650 v2**
- **Xeon E5-1607 v2**

### Memory

- **4GBx1**
- **8GBx2**
- **2GBx2**
- **2GBx2**
- **2GBx2**

#### Memory (MHz/type)

- **1600MHz DDR3**
- **1600MHz DDR3**
- **1600MHz DDR3**
- **1600MHz DDR3**
- **1600MHz DDR3**

### Upgrade ROM for onboard drive controller

- **Pre-conf RAID**

### Pre-conf RAID

- **No**
- **No**
- **No**
- **No**
- **No**

### Hard drive(s)

- **1x1TB 3.5" SATA**
- **1x1TB 3.5" SATA**
- **1x1TB 3.5" SATA**
- **1x1TB 3.5" SATA**
- **1x1TB 3.5" SATA**

### Optical

- **DVD±RW**
- **DVD±RW**
- **DVD±RW**
- **DVD±RW**
- **DVD±RW**

### 29-in-1 Media reader and GPU computing***

- **Open**
- **Open**
- **Open**
- **Open**
- **Open**

### 1394 adptr

- **No**
- **No**
- **No**
- **No**
- **No**

### Chassis intrusion switch

- **Switch**
- **Switch**
- **Switch**
- **Switch**
- **Switch**

### Preloaded OS

- **Win7 Pro64**
- **Win7 Pro64**
- **Win7 Pro64**
- **Win7 Pro64**
- **Win7 Pro64**

---

* Model in italics shows that this is a Global Model  ** The SSD drives in italics must be plugged into red or orange SATA connectors  *** DL = Dual Link, SL = Single Link

---

**Chassis intrusions switch on selected model(s)**

- **Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)**
- **Power-on password**
- **Boot sequence control**
- **Boot with no keyboard, mouse, diskette**
- **Serial port I/O enable/disable**
- **USB 2.0 ports enable/disable individually**
- **USB 3.0 ports enable/disable concurrently**
- **Chassis intrusion switch on selected model(s)**

---

**Environmental certifications**

- GREENGUARD® certified
- RoHS-compliant
- EPEAT® Gold rating

---

**Supports ThinkVantage® technologies**

---

See footnotes for important warranty information

Model(s) announced April 1, 2014

© Lenovo (4352-12E) April 2014
### ThinkStation S30 (4351) - June 2013

#### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model1</th>
<th>Processor(s)</th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
<th>Upgrade ROM on onboard drive controller</th>
<th>Diskette controller(s)</th>
<th>Pre-conf RAID</th>
<th>Hard drive(s)2</th>
<th>Optical</th>
<th>Media reader</th>
<th>Graphics adapter(s) and GPU computing</th>
<th>1394 adptr switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4351-16G</td>
<td>E5-1620 (4C/3.6GHz/10MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>DVD+RW</td>
<td>1xQuadro K4000 3GB,1xDVIX-I DL, 2xDP, 80W</td>
<td>No</td>
<td>Switch</td>
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<tr>
<td>4351-17G</td>
<td>E5-1620 (4C/3.6GHz/10MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>DVD+RW</td>
<td>1xQuadro K2000 2GB,1xDVIX-I DL, 2xDP, 51W</td>
<td>No</td>
<td>Switch</td>
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<tr>
<td>4351-24G</td>
<td>E5-1620 (4C/3.6GHz/10MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>DVD+RW</td>
<td>1xQuadro K2000 3GB,1xDVIX-I DL, 2xDP, 51W</td>
<td>No</td>
<td>Switch</td>
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<tr>
<td>4351-29G</td>
<td>E5-1620 (4C/3.6GHz/10MB/1600)</td>
<td>1600MHz UDIMM</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>DVD+RW</td>
<td>1xQuadro K600 1GB,1xDVIX-I DL, 1xDP, 41W</td>
<td>No</td>
<td>Win8 Pro64</td>
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<tr>
<td>4351-31G</td>
<td>E5-1620 (4C/3.6GHz/10MB/1600)</td>
<td>1600MHz UDIMM</td>
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<td>No</td>
<td>No</td>
<td>Yes</td>
<td>DVD+RW</td>
<td>1xQuadro K600 1GB,1xDVIX-I DL, 1xDP, 41W</td>
<td>No</td>
<td>Win8 Pro64</td>
</tr>
</tbody>
</table>

1 Model in italics shows that this is a Global Model
2 The SSD drives in italics must be plugged into red or orange SATA connectors

- **Switch SAS DVD±RW DVD±RW 38.5 lb (17.5kg) max configuration**
- **Internal speaker for business audio**
- **E5-1620 610 watts with 120mm bottom-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified**
- **Preloaded operating systems (OS)**
  - Windows 7 Professional 64
  - Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
  - Windows 8 Pro 64-bit

---

#### Chipset

- **Intel C602 Chipset**

#### Processor

- **One LGA2011 socket, supports one processor from Intel Xeon E5-2600 and E5-1600 family, integrated 4-channel DDR3 memory controller**

#### Memory

- **UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)**

#### Additional memory disclaimers

- **Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs**
- **Mixing of RDIMM and UDIMM is not supported**

#### Graphics adapters and GPU computing

- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

#### Onboard drive controllers

- **Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 1 support**
- **Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support**

#### Upgrade ROM for onboard drive controllers (opt)

- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s

#### Discrete drive controller (opt)

- One the following, depending on model:
  - LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1 support
  - LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support

#### Hard drives

- **3.5" SATA:**
  - SATA 6.0Gb/s, 7200 rpm
  - SATA 6.0Gb/s, 10000 rpm
- **2.5" SATA:**
  - SATA 6.0Gb/s, 15000 rpm
- **2.5" SSD:**
  - Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models

#### Optical

- Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface

#### Media reader (opt)

- Optional media card reader on selected models

#### Front ports

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

#### Rear ports

- Eight USB 2.0, two 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)

- None, Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear

#### Audio

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

#### Speaker

- Internal speaker for business audio

#### Onboard Ethernet

- One onboard gigabit ethernet, Intel 82579

#### Security chip

- STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant

#### Keyboard

- Preferred Pro USB Keyboard (USB connector), 104-key, black

#### Mouse

- Optical Wheel Mouse (USB connector), black

#### Power supply

- 610 watts with 120mm bottom-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified

#### Preloaded operating systems (OS)

- One 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

---

**1394 adptr switch**

- 1 optical
- 2 optical
- 4 device
- 6 device
- 8 device

**Tower**

- Raven black color; metal case
- 6.9" W x 18.1" D x 18.8" H (with handle)
- 175mm W x 460mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 31-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

**Bay 1-2:**

- 5.25"", 1.6" high, external, for optical
- 3.5"", 1" high, external, for media reader

**Bay 3:**

- 3.5"", 1" high, internal, for hard drive

**Slot 1:**

- Full-length, full-height, PCIe 3.0 x16 **(x4 electrical)

**Slot 2:**

- Full-length, full-height, PCIe 3.0 x16 (x4 electrical)

**Slot 3:**

- Full-length, full-height, PCIe 3.0 x16

**Slot 4:**

- Full-length, full-height, PCIe 3.0 x16

**Slot 5:**

- Half-length, full-height, PCIe 2.0 x4

**ISV certifications**

Please visit www.lenovo.com/support/ISV

**Environmental certifications**

- GREENGUARD Gold rating
- RoHS-compliant
- EPEAT™ Gold rating

**Supports ThinkVantage technologies**
**ThinkStation S30 (4351) - September 2013**

**Product Specifications Reference (PSREF)**

- **Intel C602 Chipset**
  - Internal speaker for business audio
  - Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), High Definition (HD) Audio, Realtek
  - 1x1TB 3.5" SATA

- **Switch**
  - 104-key keyboard (USB)/Optical Wheel Mouse (USB)
- **Hard drive(s)**
  - Media

- **Intel Active Management Technology 8 supported**
- **610 watts with 120mm bottom-mounted variable speed fan, universal, 80 PLUS® Gold qualified**

---

**Chipset**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor(s) - Xeon E5 Family</th>
<th>Memory (MHz/type)</th>
<th>Memory DIMMs</th>
<th>Upgrade ROM for onboard drive controller</th>
<th>Pre-conf</th>
<th>Hard drive(s)**</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>Graphics adapter(s) and GPU computing***</th>
<th>1394 adptr</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4351-98G</td>
<td>E5-1650 v2 (6C/3.5GHz/12MB/1666)</td>
<td>1600MHz UDIMM</td>
<td>4Gb x1</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD+RW Media</td>
<td>x1Quadro K2000 (2GB, x1DVII-DL, 2xDP, 51W)</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  ** The SSD drives in italics must be plugged into red or orange SATA connectors  *** DL = Dual Link, SL = Single Link

---

**Tower**

- Raven black color; metal case
- 46.9"W x 18.1"D x 18.8"H (with handle)
- 175mm W x 460mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 31-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

- Bay 1-2: 5.25", 1.6" high, external, for optical
- Bay 3: 3.5", 1" high, external, for media reader
- Bay 4-6: 3.5", 1" high, internal, for hard drive
- Slot 1: full-length, full-height, PCIe 3.0 x16** (near CPU)
- Slot 2: full-length, full-height, PCIe 3.0 x16 (x4 electrical)
- Slot 3: full-length, full-height, PCIe 3.0 x16**
- Slot 4: full-length, full-height, 32-bit PCI 2.3
- Slot 5: half-length, full-height, PCIe 2.0 x4

**SECURITY**

- Security chip (see information on left)
- Side cover lock (ships with two identical keys)
- Padlock loop (in rear for opt padlock; padlock prohibits side cover removal)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O enable/disable
- USB 2.0 ports enable/disable individually
- USB 3.0 ports enable/disable concurrently
- Chassis intrusion switch on selected model(s)

**ISV certifications**

Please visit www.lenovo.com/support/ISV

**Environmental certifications**

GREENGUARD® certified
RoHS-compliant
EPEAT® Gold rating

Supports ThinkVantage® technologies

---

See footnotes for important warranty information

Model(s) announced September 10, 2013

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(4351-2E) September 2013
## ThinkStation S30 (4351) - October 2013

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type model</th>
<th>Processor(s) - <strong>Xeon E5 Family</strong></th>
<th>Memory (MHz/byte)</th>
<th>Memory DIMMs</th>
<th>Upgrade ROM for onboard drive controller</th>
<th>Pre-conf RAID</th>
<th>Hard drive(s)*</th>
<th>Optical</th>
<th>29-in-1 Media reader</th>
<th>Graphics adapter(s) and GPU computing**</th>
<th>1394 adapt</th>
<th>Chassis intrusion switch</th>
<th>Preloaded OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4351-D1G</td>
<td>ES-1620 v2 4C/3.7GHz/10MB/1866MHz</td>
<td>1600MHz</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>1xQuadro K600 (1GB, 1xDVI-DL, 1xDP, 41W)</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
</tr>
<tr>
<td>4351-D2G</td>
<td>ES-1620 v2 4C/3.7GHz/10MB/1866MHz</td>
<td>1600MHz</td>
<td>4GBx1</td>
<td>No</td>
<td>No</td>
<td>1x1TB 3.5&quot; SATA</td>
<td>DVD±RW</td>
<td>Media</td>
<td>1xQuadro K2000 (2GB, 1xDVI-DL, 2xDP, 51W)</td>
<td>No</td>
<td>Switch</td>
<td>Win7 Pro64 (Downgrade from Win8)</td>
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<td>4351-D6G</td>
<td>ES-1650 v2 6C/5.2GHz/12MB/1866MHz</td>
<td>1600MHz</td>
<td>6GBx1</td>
<td>No</td>
<td>No</td>
<td>1x256GB 2.5&quot; SSD - OPAL</td>
<td>DVD±RW</td>
<td>Media</td>
<td>1xQuadro K4000 (3GB, 1xDVI-DL, 2xDP, 80W)</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  ** The SSD drives in italics must be plugged into red or orange SATA connectors  *** DL = Dual Link, SL = Single Link

### Chipset
- **Intel C602 Chipset**
- **Intel AMT**
- **Intel Active Management Technology 8 supported**

### Processor
- One LGA2011 socket, integrated 4-channel DDR3 memory controller

### Memory
- **UDIMM** or **RDIMM**, **ECC**, **DDR3**, 4-channel capable, eight 240-pin DIMM sockets; 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)
- **Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs**
- **Mixing of RDIMM and UDIMM is not supported**

### Additional memory disclaimers
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

### Graphics adapters and GPU computing
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support
- Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support

### Discrete drive controller (opt)
- None

### Hard drives
- 3.5" SATA: SATA 6.0Gb/s, 7200 rpm
- 2.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash
- 2.5" SATA: SATA 6.0Gb/s, 10000 rpm
- 2.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm
- 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on some models

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

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

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

### Rear ports
- Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)

### IEEE 1394 adapt (opt)
- None, 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 E82579

### Security chip
- STMicroelectronics ST33TPM12LPC, 128-bit compliant

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

### Power supply
- 610 watts with 120mm bottom-mounted variable speed fan, universal, **Climate Savers® Computing Gold, 80 PLUS® Gold** qualified

### Tower
- Raven black color; metal case
- 6.9"W x 18.1"D x 18.8"H (with handle)
- 175mm W x 460mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 31-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

### Environmental certifications
- **GREENGUARD® certified**
- RoHS-compliant
- EPEAT® Gold rating
- Supports ThinkVantage® technologies

### ISV certifications
- Please visit [www.lenovo.com/support/ISV](http://www.lenovo.com/support/ISV)

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See footnotes for important warranty information

Model(s) announced October 8 (D2G) or 15 (D1G/D6G), 2013

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(4351-3E) November 2013
### ThinkStation S30 (4351) - April 2014

#### Chipset
- **Model(s) announced April 1, 2014**

#### Tower
- **4351-J6G**
- **4351-J7G**
- **4351-L6G**

#### Security
- **Security chip**
- **Security adapter retention**
- **Toolsless side cover removal**
- **Internals**

#### Environmental certifications
- **GREENGUARD Gold certified**
- **RoHS-compliant**
- **EPEAT Gold rating**
- **Supports ThinkVantage technologies**

#### See footnotes for important warranty information

**Type-model**  | **Processor(s)** | **Memory (MHz/type)** | **Upgrade ROM for onboard drive controller** | **Pre-conf RAID** | **Hard drive(s)** | **Optical** | **29-in-1 Media reader** | **Graphics adapter(s) and GPU computing** | **1394 adptr** | **Chassis intrusion switch** | **Preloaded OS**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
4351-J6G | Xeon E5-1620 v2 4C/3.7GHz/10MB/1866MHz | 1600MHz | Xeon E5 Family | 4GBx2 | No | No | 1x1TB 3.5" SATA | DVD+RW Media | 1xQuadro K600 1GB/1xDVI-I DL/1xDP/41W | No | Switch | Win7 Pro64

**Notes:**
- Model in italics shows this is a Global Model
- The SSD drives in italics must be plugged into red or orange SATA connectors
- DL = Dual Link, SL = Single Link
- 3-year limited warranty
- For ThinkStation S30 Platform Specifications, please see ThinkStation S30 Platform Specifications sheet

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**Chipset**
- **Intel C602 Chipset**

**Intel AMT**
- Intel Active Management Technology 8 supported

**Processor**
- One LGA2011 socket, integrated 4-channel DDR3 memory controller

**Memory**
- UDIMM or RDIMM, ECC, DDR3, 4-channel capable, eight 240-pin DIMM sockets, 64GB max (UDIMM, 6GBx8)/256GB max (RDIMM, 32GBx8)

**Additional memory disclaimers**
- Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs
- Mixing of RDIMM and UDIMM is not supported

**Graphics adapters and GPU computing**
- Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology

**Onboard drive controllers**
- Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 1, 1, 1 support
- Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 1, 1 support

**Upgrade ROM for onboard drive controllers (opt)**
- Optional SAS SSD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 2.0Gb/s, SAS 3.0Gb/s, RAID 0, 1, 1, 1, 1 support

**Discrete drive controller (opt)**
- Optional LSI SAS 9240-8i, PCI Express bus, SATA 6.0Gb/s, RAID 0, 1, 1, 1, 1 support, available on model 4351-L6G

**Hard drives**
- 3.5" SATA: 60GB/8s, 7200 rpm
- 3.5" Hybrid: 60GB/8s, 7200 rpm, integrated 8GB NAND flash
- 2.5" SATA: 60GB/8s, 10000 rpm
- 2.5" SAS/2.5" SAS: 6GB/8s, 15000 rpm
- 2.2" SSD: Solid State Drive (SSD), SATA 6.0Gb/s OPAL-capable on some models

**Optical**
- Supports DVD-ROM, DVD+RW, or Blu-ray Burner, SATA interface

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

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

**Rear ports**
- Eight USB 2.0, two 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)**
- None, Optional FireWire PCIe adapter on selected models, 1394a=2000, 400Mbps, two 6-pin ports on rear

**Audio**
- Internal speaker for business audio

**Onboard Ethernet**
- One onboard gigabit ethernet, Intel 82579

**Security chip**
- Security chip

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

**Power supply**
- 610 watts with 120mm bottom-mounted variable speed fan, universal, Climate Savers Computing Gold, 80 PLUS Gold qualified

**ISV certifications**
- Please visit www.lenovo.com/support/ISV

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**Notes:**
- Raven black color; metal case
- 6.9"W x 18.1"D x 18.8"H (with handle)
- 175mm W x 460mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 1-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

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**Environmental certifications**
- GREENGUARD Gold certified
- RoHS-compliant
- EPEAT Gold rating
- Supports ThinkVantage technologies

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**See footnotes for important warranty information**

**Model(s) announced April 1, 2014**

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