Lenovo 150GB and 300GB 10K rpm Serial ATA Hard Drives -- Improved productivity for selected ThinkCentre systems

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At a glance

You can realize the full potential of your Serial ATA system by installing a Serial ATA hard drive. The 300 MB/s instantaneous data transfer rate is a 50% improvement over previous Serial ATA technology. The 150GB and 300GB\(^1\) 10K rpm Serial ATA Hard Drives include upgrade features selected from the highest-quality hard drives available. Features include:

- 150 GB and 300 GB formatted capacity
- 3 ms average latency
- Read Seek time of 4.2 ms typical (without command overhead)
- Serial ATA interface capability enabling up to 300 MB/s\(^2\) instantaneous interface data transfers
- Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.) included
- Slim, one-inch-high profile
- Three-year limited warranty

Overview

Lenovo® extends its line of outstanding hard drive upgrade options with the 150GB and 300GB 10K rpm Serial ATA Hard Drives for selected models of Lenovo ThinkCentre® and ThinkStation® systems.

The 150GB and 300GB 10K rpm Serial ATA Hard Drives feature Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.), which can warn of predictable impending hard drive failure. S.M.A.R.T. is compatible with ThinkVantage® Rescue and Recovery® software, available separately, which can perform unattended backup of customer data from the drive before failure. Drives predicting failure within the limited warranty period are eligible for warranty replacement.

The 150GB and 300GB 10K rpm Serial ATA Hard Drives benefit from an outstanding Lenovo drive quality, reliability, compatibility, and testing program. As one of the premier PC system manufacturers, Lenovo installs millions of hard drives per year. Ongoing quality management in support of this product provides Lenovo options customers with drives continually selected from among the highest-quality hard drives available. Offered with a three-year limited warranty, these drives assume the warranty terms of the Lenovo PC system in which they are installed. This means that when they are installed in selected Lenovo PCs, the drives may be eligible for on-site service for up to three years.

\(^1\) When referring to HD capacity, MB equals one million bytes; GB equals one billion bytes. Actual capacities vary based on different operating environments.

\(^2\) Serial ATA drives require Serial ATA capability on the system board or an attached adapter card.
Key prerequisites

Refer to the Hardware requirements section for a list of systems supported.

Planned availability date

April 3, 2009

Additional information

All offers are subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time without notice. Lenovo is not responsible for photographic or typographic errors.

Lenovo makes no representation or warranty regarding third-party products or services.

Product number

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>EAN Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenovo 150GB 10K rpm Serial ATA Hard Drive (2.5&quot;)</td>
<td>43R2030</td>
<td>0884343-68794-0</td>
</tr>
<tr>
<td>Lenovo 300GB 10K rpm Serial ATA Hard Drive (2.5&quot;)</td>
<td>43R2031</td>
<td>0884343-68795-7</td>
</tr>
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Terms and conditions

This product is available from Lenovo under the terms and conditions for purchase.

Warranty and service

• The warranty period is three years.
• Helpware: Contact your Lenovo HelpWare® number, your place of purchase, or your local Lenovo office.

Announcement countries

All European, Middle Eastern, and African countries.

Supplemental information

Product name

• Lenovo 150GB 10K rpm Serial ATA Hard Drive (2.5") (43R2030)
• Lenovo 300GB 10K rpm Serial ATA Hard Drive (2.5") (43R2031)

Product positioning

The Lenovo 150GB and 300GB 10K rpm Serial ATA Hard Drives offer outstanding productivity for Lenovo systems.
Technical information

**Performance specifications**

- Formatted capacity bytes: 150 GB and 300 GB
- Rotational speed: 10,000 rpm
- Average latency: 3 ms (nominal)
- Typical read seek time: 4.2 ms
- Interface performance: 300 MB/s -- Burst transfer rate (maximum)

3 Actual performance varies based on many factors and is often less than the maximum possible.

**Note**: The total user-accessible capacity can vary slightly based on operating system environments.

**Physical specifications**

- Approximate height: 1.5 cm (0.59 in)
- Approximate width: 6.99 cm (2.75 in)
- Approximate depth: 10.0 cm (3.94 in)
- Approximate weight: .229 kg (0.35 lb)

**Operating environment**

- Temperature: 5° to 60°C (41° to 140°F)
- Relative humidity: 8% to 90% (non-condensing)

**Agency approvals**

- UL
- CUL
- TUV
- IEC
- C-Tick
- CE Mark
- BSMI
- MIC

**ENERGY STAR-Compliant**

No

**Hardware requirements**

The Lenovo 150GB and 300GB 10K rpm Serial ATA Hard Drives are supported on the following systems:

<table>
<thead>
<tr>
<th>Description</th>
<th>Machine Type</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkStation S10, S20</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td>ThinkStation D10, D20</td>
<td>All</td>
<td>All</td>
</tr>
</tbody>
</table>

**Software requirements**

- Microsoft® Windows® XP
- Microsoft Windows Vista

**Compatibility**
Some configurations may not be compatible.

**Limitations**
None

**Planning information**

**Cable orders required**
No

**Installation time**
Approximately 20 minutes

**Packaging**
One box (plain brown box -- not packaged for consumer)

**Shipment group**
- Lenovo 150GB or 300GB 10K rpm Serial ATA Hard Drive
- Cable
- 2.5 to 3.5-inch adapter
- User's Guide
- Warranty supplement

**Security, auditability, and control**

This product uses the security and auditability features of the hardware in which it is installed.

**Terms and conditions**

<table>
<thead>
<tr>
<th>Field-installable</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer setup</td>
<td>Yes</td>
</tr>
<tr>
<td>Warranty period*</td>
<td>3 years</td>
</tr>
<tr>
<td>Service type</td>
<td>CRU</td>
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<tr>
<td>Maintenance agreement</td>
<td>NO</td>
</tr>
<tr>
<td>Optional upgrade</td>
<td>NO</td>
</tr>
<tr>
<td>Licensed programs</td>
<td>NO</td>
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All other terms and conditions are the same as those applicable to the Lenovo machine type in which the feature is installed.

* To obtain copies of the Lenovo Statement of Limited Warranty, contact your reseller or call Lenovo.

**Help and service information -- Features and options**

During the warranty period, support for a warranty related issue can be obtained by accessing Lenovo's online services (requires Internet access account, not included) or calling the Support Center, 8:00 a.m. until 6:00 p.m. business hours, to answer any questions regarding your new Lenovo option. Response time will vary depending on the number and nature of calls received. If you need warranty service, return or exchange is available. In addition, if your Lenovo option is installed in an Lenovo computer, you may be entitled to service at your location. For general questions related to the use of your options, fee-based support is available. Your technical support representative can help you determine the best alternative.

**Accessing Lenovo online services**
http://www.lenovo.com/support
Placing the call to Lenovo
For technical support, contact your HelpWare number, your place of purchase, or your local sales office.

Prices
For all local charges, contact your sales representative.

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