ThinkPad and ThinkCentre 25-Pack memory upgrades improve overall performance of your systems

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Overview

Reduce environmental impact and improve the overall performance of selected notebook and desktop systems by upgrading multiple systems with additional ThinkPad® or ThinkCentre® memory.

Offering highlights:

• Choice of 25-pack of ThinkPad SODIMM Notebook or ThinkCentre UDIMM Desktop memory
• When comparing a 25-pack to 25 individual packs:
  – Reduces corrugated shipping carton materials by 70%
  – All 25 Anti-static ESD plastic bags are eliminated
  – 24 of 25 warranty/safety booklets are eliminated
  – Quickly open a single 25-pack carton versus 25 individual cartons
• Tested for compatibility on supported Lenovo®, ThinkPad, or ThinkCentre systems
• Compliant with stringent Lenovo reliability standards for memory products

Note: The memory modules are not individually packaged for individual memory resale.

Adding memory is a cost-effective way to enhance your system's performance.

Key prerequisites

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

Planned availability date

March 20, 2009

Availability of products with encryption algorithm in France is subject to French governmental approval.

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

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<tr>
<th>Description</th>
<th>Part Number</th>
<th>EAN Code</th>
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<td>51J0501</td>
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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 one year.
- 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

- 1GB PC2-5300 667MHz DDR2 Desktop Memory (25-pack) - 51J0501
- 2GB PC2-5300 667MHz DDR2 Desktop Memory (25-pack) - 51J0547
- 1GB PC2-6400 800MHz DDR2 Desktop Memory (25-pack) - 51J0549
- 2GB PC2-6400 800MHz DDR2 Desktop Memory (25-pack) - 51J0550

#### Technical information

##### Performance specifications

- Serial presence detect/decode.
- 240-pin JEDEC/JEDIA standard UDIMM interface.
- Gold-plated leads.

##### Physical specifications

- Individual Unpacked Memory Module:
Approximate height: 4.0 mm (0.11 in)
Approximate width: 133.6 mm (5.25 in)
Approximate depth: 30.0 mm (1.18 in)

25-Pack Packaged:
Approximate height: 65 mm (2.6 in)
Approximate width: 380 mm (14.9 in)
Approximate depth: 306 mm (12.0 in)
Approximate weight: 0.7 kg (1.5 lb)

Operating environment
- Temperature: 0° to 65°C (32° to 149°F)
- Relative humidity: 10% to 90%

ENERGY STAR-Compliant
No

Hardware requirements
These 25-pack memory options are supported on the same desktop systems as the single-pack (individual) memory option. The following table lists 25-pack memory options and the equivalent single-unit memory option:

<table>
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<tr>
<th>Memory Module</th>
<th>25-Pack Part Number</th>
<th>Single Pack Part Number</th>
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<td>1GB PC2-5300 667MHz DDR2 SDRAM UDIMM</td>
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Compatibility
For option compatibility information, visit http://www.lenovo.com/accessoriesguide

Planning information

Cable orders required
No

Installation time
Approximately five minutes

Shipment group
- 25 Desktop Memory modules
- Publication

Security, auditability, and control
This product uses the security and auditability features of the system on which it is installed. It also includes:
- Tamper-evident packaging
- Product serial number on product carton
- Bar code serialized SODIMM
• Authenticity seal applied to the SODIMM
• Lenovo logo on the memory module to indicate genuine product

Terms and conditions

<table>
<thead>
<tr>
<th>Field-installable</th>
<th>Yes</th>
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</thead>
<tbody>
<tr>
<td>Customer setup</td>
<td>Yes</td>
</tr>
<tr>
<td>Warranty period*</td>
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</tr>
<tr>
<td>Service type</td>
<td>CRU</td>
</tr>
<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>
</tr>
</tbody>
</table>

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.

Supplemental information

Product name

• 1GB PC2-5300 667MHz DDR2 Notebook Memory (25-Pack) - 51J0502
• 2GB PC2-5300 667MHz DDR2 Notebook Memory (25-Pack) - 51J0548
• 1GB PC3-8500 1066MHz DDR3 Notebook Memory (25-Pack) - 51J0551
• 2GB PC3-8500 1066MHz DDR3 Notebook Memory (25-Pack) - 51J0552

Technical information

Performance specifications

• Serial presence detect/decode.
• 200-pin JEDEC/JEDIA standard SODIMM interface.
• Gold-plated leads.

Physical specifications

• Individual Unpacked Memory Module:
  – Approximate height: 3.8 mm (0.15 in)
  – Approximate width: 67.6 mm (2.66 in)
– Approximate depth: 31.7 mm (1.25 in)

• 25-Pack Packaged:
  – Approximate height: 51 mm (2.0 in)
  – Approximate width: 264 mm (10.4 in)
  – Approximate depth: 165 mm (6.5 in)
  – Approximate weight: 0.3 kg (0.7 lb)

**Operating environment**

• Temperature: 0° to 65°C (32° to 149°F)
• Relative humidity: 10% to 90%

**ENERGY STAR-Compliant**

No

**Hardware requirements and compatibility**

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For option compatibility information, visit


For notebook compatibility information, visit

[http://www.lenovo.com/support/notebookmemorycompatibility](http://www.lenovo.com/support/notebookmemorycompatibility)

**Planning information**

**Cable orders required**

No

**Installation time**

Approximately five minutes

**Shipment group**

• 25 Notebook Memory modules
• Publication

**Security, auditability, and control**

This product uses the security and auditability features of the system on which it is installed. It also includes:

• Tamper-evident packaging
• Product serial number on product carton
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• Lenovo logo on the memory module to indicate genuine product

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<tr>
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<td>CRU</td>
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Accessing Lenovo online services

http://www.lenovo.com/support

Placing the call to Lenovo

For technical support outside the United States and Canada, 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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