ThinkCentre and Lenovo Super Multi-Burner Drive, CD-RW/DVD-ROM Drive, and DVD-ROM Drive feature improved technology

Overview

ThinkCentre® and Lenovo™ Super Multi-Burner Drive (Serial ATA) — The next generation of Multi-Burner eliminates the need to choose between competing recordable DVD formats. This drive supports all formats released by the DVD Forum and DVD+RW Alliance, including DVD-RAM, DVD-R, DVD-R dual layer, DVD-RW, DVD+R, DVD+R dual layer, and DVD+RW media.

The ThinkCentre and Lenovo Super Multi-Burner Drive features LightScribe technology, enabling professional quality DVD and CD labels. Design unique laser-etched labels using your own photos, artwork, and text. After you burn content, just flip the LightScribe compatible disc over and burn your label.

A comprehensive software bundle helps you get the most out of this new drive. Software includes:
• WinDVD Creator Plus video editing and authoring software for capturing, editing, and creating your own videos. Save your home videos to DVD-Recordable discs that are compatible with most set-top consumer DVD players and most PC DVD drives.
• WinDVD by Intervideo for playback of MPEG-2 files and DVD movies.
• Multimedia Center for Think Offerings burning software for recording and labeling to CD and DVD supported media.

ThinkCentre and Lenovo CD-RW/DVD-ROM Combo Drive (Serial ATA) — Combines the best technology and functionality from CD-RW and DVD-ROM drives into one drive. This combination drive writes CD-RW and CD-R media and reads CD and DVD media.

Multimedia Center for Think Offerings and Intervideo WinDVD DVD decoding software are included with this new combination drive so you can create data and audio CDs, back up files, and play DVD movies.

This drive conforms to the DVD Forum DVD Multi-Player specification, which ensures read compatibility across all DVD Forum endorsed formats (DVD-R, DVD-R DL, DVD-RW, and DVD-RAM) and all DVD+RW Alliance formats (DVD+R, DVD+R DL, and DVD+RW).

When installed in a supported Lenovo PC system, this option assumes the system warranty.

ThinkCentre and Lenovo DVD-ROM Drive (Serial ATA) — Delivers the latest DVD media compatibility. This new drive reads:
• All currently available DVD-RAM media that is shipped in Type II cartridges
• DVD-R, DVD-R dual layer, DVD+R, DVD+R Double layer media
• Single and dual layer DVDs with up to 8.5 GB capacity per disc
• All popular CD media

Maximum DVD read speed is 16x CAV and maximum CD read speed is 48x CAV. Decoding software for DVD Video playback is also included.

This option takes on the warranty of the Lenovo PC system in which it is installed. For many Lenovo PCs this can entitle this product to on-site service for up to three years.

Key prerequisites
• Pentium® PCs
• Microsoft™ Windows™ 2000, and Windows XP

Planned availability date
September 29, 2006

At a glance

ThinkCentre and Lenovo Super Multi-Burner Drive (Serial ATA)
• Increased burn speeds compared to the previous offering — Burns DVDs at up to 16x (22 MB/sec)²
• Supports writing DVD+R Double Layer and DVD-R Dual Layer media
• Burns CD-R and CD-RW discs
• Buffer underrun protection — Helps to reduce write errors
• Comprehensive software bundle³ completes the solution
• One-year limited warranty

ThinkCentre and Lenovo CD-RW/DVD-ROM Combo Drive (Serial ATA)
• Write speeds of CD-R media: 48x, 40x, 32x, 24x, 16x, 8x, 4x
• Write speeds of CD-RW media: 32x, 24x, 16x, 10x, 4x
• Maximum read speed of CD media: 48x
• Maximum read speed of DVD media: 16x
• Buffer underrun protection
• Industry-leading CD recording and DVD playback software

The ThinkCentre and Lenovo DVD-ROM Drive (Serial ATA)
• 16x-7x CAV read speed of DVD media
• 48x-21x read speed of CD media
• Decoding software for MPEG-2 and movie playback
• One-year limited warranty

For technical support:
• Call the Support Center at 800-426-7378 or
• Request technical information via the Web site at http://www.lenovo.com/support

This announcement is provided for your information only. For additional information, contact your sales representative, call 800-426-4968, or visit http://www.lenovo.com.
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.

Section 508 of the U.S. Rehabilitation Act

The ThinkCentre and Lenovo Drives are capable as of September 15, 2006, when used in accordance with associated Lenovo documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. Lenovo assumes that Section 508 applies only to normal and routine end-user operations, and not to setup and service functions.

The ThinkCentre and Lenovo Drives include certain third-party software not covered under the Lenovo license agreement. Lenovo makes no representation about the Section 508 status of these products. Contact the vendor for information on the Section 508 status of its products.

Reference information

1 When referring to DVD-writing, one X is approximately equal to 1380 KB/s.
2 CD/DVD drive speeds list maximum rates; rates are variable and are often less than the maximum possible.
3 Some software may differ from its retail version (if available), and may not include user manuals or all program functions. Software license agreements may apply.
4 Variable read rate. Actual playback speed will vary and is often less than the maximum possible.
5 Pentium II 233 MHz minimum required for MPEG-2 playback.

Trademarks

Pentium is a registered trademark of Intel Corporation.
Microsoft and Windows are trademarks of Microsoft Corporation.
Lenovo is a trademark of Lenovo in the United States, other countries, or both
ThinkCentre is a registered trademark of Lenovo in the United States, other countries, or both
Other company, product, and service names may be trademarks or service marks of others.
ThinkCentre® and Lenovo™ Super Multi-Burner Drive (Serial ATA) (41N5620)

Product positioning: The ThinkCentre and Lenovo Super Multi-Burner Drive (Serial ATA) is the top-of-the-line offering in the Lenovo optical product line. It supports the DVD Forum DVD Multi Player/Recorder specifications, the DVD+RW Alliance formats, DVD+R Double layer, DVD-R Dual layer, and CD-R/CD-RW burning.

Technical information

Performance specifications

- Maximum sustained data transfer rates:
  - Read/write:
    - 4.7/9.4 GB DVD-RAM: 5x-3x PCAV (6.9 — 4.2 MB/s)
  - Read:
    - 2.6 GB DVD-RAM: 2x ZCLV (2.7 MB/s)
    - 4.7 GB DVD-ROM: 16x CAV (22.1 — 6.8 MB/s)
    - 8.5 GB DVD-ROM: 8x CAV (11.0 — 4.5 MB/s)
    - 4.7 GB DVD-R: 16x CAV (22.1 — 9.1 MB/s)
    - 4.7 GB DVD-RW: 8x CAV (11.0 — 4.5 MB/s)
    - 4.7 GB DVD+R: 16x CAV (22.1 — 9.1 MB/s)
    - 8.5 GB DVD+R DL: 8x CAV (11.0 — 4.5 MB/s)
    - Write:
      - 4.7 GB DVD-R: 16x PCAV (22.1 — 9.1 MB/s)
      - 4.7 GB DVD-R DL 4x ZCLV (5.5 MB/s)
      - 4.7 GB DVD-RW: 6x CLV (8.3 MB/s)
      - 4.7 GB DVD+R: 16x PCAV (22.1 — 9.1 MB/s)
      - 8.5 GB DVD+R DL: 8x ZCLV (11.0 MB/s)
      - 4.7 GB DVD+RW: 8x ZCLV (11.0 MB/s)
      - CD-R: 40x CAV (6.0 — 2.5 MB/s)
      - CD-RW: 32x ZCLV (3.6 MB/s)

- Maximum burst data transfer rates:
  - SATA: 1.5 Gb/s
  - Average access times:
    - CD-ROM/R: 120 ms
    - DVD-ROM/R: 140 ms
    - DVD-RAM: 200 ms

LightScribe labeling feature supported when using LightScribe compatible media.

Physical specifications (approximate)

- Height: 41.3 mm (1.63 in)
- Width: 146.0 mm (5.75 in)
- Length: 165.0 mm (6.50 in)
- Weight: 800 g (1.77 lb)
- Reliability: 125,000 POH MTBF (20% usage)

Operating environment

- Temperature: 5° to 45°C (41° to 113°F)
- Relative humidity: 10% to 80% (non-condensing)

Software requirements: Microsoft® Windows® 2000 or Windows XP

Compatibility: The ThinkCentre and Lenovo Super Multi-Burner Drive (Serial ATA) is compatible with the following DVD and CD formats:

- DVD-ROM: 4.7 GB (single layer) 8.5 GB (dual layer)
- DVD-R: 4.7 GB (V2.0 for Authoring: read only) 4.7 GB (V2.1 for General: read and write) (DL) 8.5 GB (V3.0)
- DVD-RW: 4.7 GB (V1.2/ Rev. 1.0, 2.0, 3.0)
- DVD-RAM: 2.6 GB/side (V1.0: read only) 1.46 GB/side, 4.7 GB/side (V2.2)
- DVD+R: 4.7 GB (V1.3) (DL) 8.5 GB (V1.1)
- DVD+RW: 4.7 GB (Vol. 1/V1.3, Vol. 2/V1.0)
- CD-ROM Mode-1 data disc
- CD-ROM Mode-2 data disc
- CD-ROMXA, CD-I, Photo-CD Multi-Session, Video CD
- CD-Audio Disc
- Mixed mode CD-ROM disc (data and audio)
- CD-Extra
- CD-Text
- CD-R (Conforming to “Orange Book Part 2”: Read and write)
- CD-RW (Conforming to “Orange Book Part 3” : Read and write)

Note: Some software configurations may not be compatible with all media.

Limitations: None

Agency approvals

- FCC label
- UL mark
- CUL mark

Hardware requirements: The ThinkCentre and Lenovo Super Multi-Burner Drive (Serial ATA) is supported on the following systems:

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<td>A1</td>
</tr>
<tr>
<td></td>
<td>8793, 8794, 8795,</td>
<td>A1</td>
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<tr>
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</tr>
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This announcement is provided for your information only.
**Planning information**

**Cable orders required:** No

**Installation time:** Approximately 20 minutes

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

**Shipment Group**
- ThinkCentre and Lenovo Super Multi-Burner Drive (Serial ATA)
- User’s Guide and software CDs
- SATA cable
- Mounting screws (4)
- Quick Reference Guide
- Safety information book

**Publications**

The User’s Guide CD (41N5626) is shipped with each drive and is available in the following languages:
- U.S. English
- Brazilian Portuguese
- Czech
- French
- German
- Italian
- Japanese
- Simplified Chinese
- Slovak
- Spanish
- Traditional Chinese
- Turkish

The Publication Notification System (PNS) is not available.

**Security, auditability, and control**

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

**Terms and conditions**

Field-Installable: Yes
Customer setup: Yes
Warranty period(7): 1-year
Service type: CRU
Maintenance agreement: No
Optional upgrade: No
Licensed programs: No

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

In the United States, call 800-426-7378, or write to:

Warranty Information
P.O. Box 12195
Research Triangle Park, NC 27709
Attn: Dept IPIA/B676

All other terms and conditions are the same as those applicable to the Lenovo machine type in which the feature is installed.

**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, 24 hours a day, 7 days a week, 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 a Lenovo computer, you may be entitled to service at your location. For general questions related to the use of your option, 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
Performance specifications

Write speeds:
- CD-R media 48x maximum 3.0 to 7.2 MB/s CAV
- CD-RW media
  - Multi-speed 4x 0.6 MB/s CLV
  - High-speed 10x 1.5 MB/s CLV
  - Ultra-speed 24X Max 3.0 to 3.6 MB/s PCAV
  - Ultra-speed+ 32X Max 3.0 to 4.8 MB/s PCAV PCAV

Read speeds:
- Sustained data transfer rates:
  - DVD-ROM (6.5x-16x CAV, 4.7 GB DVD-ROM Data read): 8.7 to 22.1 MB/s
  - DVD-ROM (3.3x-8x CAV, 8.5 GB Dual-layer read): 4.4 to 11.0 MB/s
  - DVD-R (3.3x — 8x2.5x-6x CAV, 4.7 GB DVD-R read): 3.3 to 8.1 4.5 to 10.8 MB/s
  - DVD+R (3.3x — 8x2.5x-6x CAV, 4.7 GB DVD+R read): 3.3 to 8.1 4.5 to 10.8 MB/s
  - DVD-RAM (2x — 5x CAV, 3.95 GB DVD-RAM read): 3.3 to 6.7 MB/s
  - DVD-RW (3.3x — 8x CAV, 4.7 GB DVD-RW read): 3.3 to 6.7 MB/s
  - DVD-RW (3.3x — 8x2.5x-6x CAV, 4.7 GB DVD-RW read): 3.3 to 8.1 4.5 to 10.8 MB/s
  - CD-ROM (20x-48x CAV, CD-ROM read): 3.0 to 7.2 MB/s
  - CD-R (20x-48x CAV, CD-R read): 3.0 to 7.2 MB/s
  - CD-RW (18x-40x CAV, CD-RW read): 2.7 to 6.0 MB/s
  - DVD+R DL (3.3x — 8x CAV, 8.5 GB DVD+R DL read): 4.5 to 10.8 MB/s
  - DVD-R DL (3.3x — 8x CAV, 8.5 GB DVD-R DL read): 4.5 to 10.8 MB/s
- Maximum Burst data transfer rate:
  - 1.5 Gb/s
- Average access times:
  - DVD-ROM including latency, single layer: 120 ms
  - CD-ROM including latency: 100 ms
  - CD-RW including latency: 100 ms
  - 2 MB data buffer

Actual speeds will vary and are often less than the maximum possible. The read and write results of this drive depend on the quality and characteristics of the CD-R and CD-RW media used. Poor results may be obtained with some media suppliers.

Physical specifications

- Approximate height: 42 mm (1.6 in)
- Approximate width: 148 mm (5.8 in)
- Approximate length: 184 mm (7.24 in)
- Approximate weight: 700g (1.55 lb)
- MTBF (10% duty): 125,000 POH

Operating environment

- Temperature: 5°F to 45°F (41°C to 113°F)
- Relative humidity: 10% to 80% (non-condensing)

Agency approvals

- FCC label
- UL mark
- cUL mark

ENERGY STAR-compliant: No

Hardware requirements: The ThinkCentre and Lenovo CD-RW/DVD-ROM Combo Drive (Serial ATA) is supported on the following Lenovo systems:

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</table>

Some computers have a smaller connector that is incompatible with the included internal audio cable. If your computer has this type of connector, you must purchase a new audio cable.

Software requirements: The ThinkCentre and Lenovo CD-RW/DVD-ROM Combo Drive (Serial ATA) is supported on the following operating systems:

- Windows 2000
- Windows XP

Compatibility: Some configurations may not be compatible.

Limitations: None

Planning information

Cable orders required: No

Installation time: Approximately 30 minutes

Packaging: One box (plain brown box — not packaged for consumer)

Shipment group

- ThinkCentre and Lenovo CD-RW/DVD-ROM Combo Drive (Serial ATA) (1)
- CD-RW and DVD-ROM Software and User’s Guide CD (1)
- Serial ATA cable (1)
- Mounting screws (4)
- Safety Guide (1)

Publications

The User’s Guide CD (41N5624) is shipped with each drive and is available in the following languages:

- U.S. English
- Brazilian Portuguese
- Czech
- French
- German
- Italian
- Japanese
Security, auditability, and control

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

Terms and conditions

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<tr>
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<td>Warranty period (7)</td>
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<td>Service type</td>
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<tr>
<td>Maintenance agreement</td>
<td>No</td>
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(7) To obtain copies of the Lenovo Statement of Limited Warranty, contact your reseller or call Lenovo.

In the United States, call 800-426-7378, or write to:

Warranty Information
P.O. Box 12195
Research Triangle Park, NC 27709
Attn: Dept ZPYA/B676

All other terms and conditions are the same as those applicable to the Lenovo machine type in which the feature is installed.

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, 24 hours a day, 7 days a week, 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 a 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
**ThinkCentre and Lenovo DVD-ROM Drive (Serial ATA) (41N5618)**

**Technical information**

**Performance specifications**

- **Sustained data transfer rate**
  - DVD — single layered (7x-16x, CAV DVD-ROM read) 22 MB/s Maximum
  - DVD — dual layered (5x-12x Maximum, full CAV) 16.6 MB/s Maximum
  - Mode 1 (17x-40x, CAV CD-ROM read) 2.5-6.0 MB/s

- **Maximum burst data transfer rate**
  - 1.5 Gb/s

- **Average access time**
  - Including latency (CD/CAV) random 90 ms / full stroke 210 ms
  - Including latency (DVD-ROM) random 120 ms / full stroke 230 ms

**Physical specifications**

- Approximate height (maximum): 42 mm (1.7 in)
- Approximate width (maximum): 148 mm (5.9 in)
- Approximate length (maximum): 184 mm (7.2 in)
- Approximate weight (maximum): 750 g (1.66 lb)
- MTBF (100% duty) 125,000 POH

**Operating environment**

- Temperature: 5° to 50°C (41° to 122°F)
- Relative humidity: 10% to 90% (non-condensing)

**Agency approvals**

- FCC label
- UL mark
- CSA mark

**ENERGY STAR-compliant:** No

**Hardware requirements:** The ThinkCentre and Lenovo DVD-ROM Drive (Serial ATA) is supported on the following systems:

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**Software requirements:** For MPEG-2 Playback:

- Windows 2000
- or
- Windows XP

**Compatibility:** The ThinkCentre and Lenovo DVD-ROM Drive (Serial ATA) is compatible with the following DVD and CD formats:

- DVD-ROM — single layered and dual layered discs
- DVD-R, 2.6 GB and 4.7 GB discs
- 4.7 GB/ side DVD-RAM media
- DVD-RW
- DVD+RW
- DVD-R Dual layer
- DVD+R Double layer
- CD-RW discs
- CD-R discs
- CD-ROM mode-1 data discs
- CD-ROM mode-2 data discs
- CD-ROM XA discs
- CD Audio discs
- CD-I discs
- Photo CD multisession discs
- Video CD discs
- CD-Extra discs
- CD-DA discs
- CD-TEXT discs

**Note:** Some configurations may not be compatible.

**Limitations:** None

**Planning information**

**Cable orders required:** No

**Installation time:** Approximately 45 minutes

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

**Shipment group**

- ThinkCentre and Lenovo DVD-ROM Drive (Serial ATA)
- Serial ATA cable (1)
- Mounting Screws (4)
- 16X Max RAM-Read DVD-ROM User’s Guide (1)
- Safety Guide (1)
- Laser Safety Guide (1)
- MPEG-2 software decoding CD (1)

**Security, auditability, and control**

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

**Terms and conditions**

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**Accessing Lenovo online services**

http://www.lenovo.com/support

| Prices |
|------------------|-----------------|
| Description | Part number | List price(9) |
| ThinkCentre and Lenovo Super Multi-Burner Drive (Serial ATA) | 41N5620 | $119.95 |
| ThinkCentre and Lenovo CD-RW/DVD-ROM Combo Drive (Serial ATA) | 41N5619 | 79.95 |
| ThinkCentre and Lenovo DVD-ROM Drive (Serial ATA) | 41N5618 | 49.95 |

(9) List price does not include tax or shipping and is subject to change without notice. Reseller prices may vary.

**Trademarks**

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Lenovo is a trademark of Lenovo in the United States, other countries, or both

ThinkCentre is a registered trademark of Lenovo in the United States, other countries, or both

Other company, product, and service names may be trademarks or service marks of others.