



# New SATA DVD-ROM and Multi-Burner Drive Options provide high capacity and performance for storage in selected System x and BladeCenter systems

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## At a glance

New IBM drives are supported for the System x® and BladeCenter® systems. These are the newest storage solutions for servers that need alternative optical drive capabilities.

## Overview

*New IBM® UltraSlim Enhanced SATA DVD-ROM and IBM UltraSlim Enhanced SATA Multi-Burner Drive for System x and BladeCenter servers*

These new drives are positioned to allow a wider choice of drives for your IBM System x or BladeCenter system.

The new drives are:

- UltraSlim Enhanced SATA DVD-ROM (46M0901)
- UltraSlim Enhanced SATA Multi-Burner (46M0902)

Key features and benefits include:

- UltraSlim form factor
- Superior reliability that enables operation in systems without compromising application performance or availability

### Reliability

- SATA compliance enables drives to connect directly into System x or BladeCenter systems.
- Rigorous testing through the ServerProven® program instills confidence that your storage subsystem is compatible and will function reliably.

**Warranty:** One-year, Customer Replaceable Unit (CRU), limited warranty<sup>1</sup>

<sup>1</sup> For information on the IBM Statement of Limited Warranty, contact your IBM representative or reseller. Copies are available upon request.

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## Key prerequisites

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Supported on IBM System x and BladeCenter systems

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## Planned availability date

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July 31, 2009

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## Description

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The new SATA UltraSlim drives are supported with all major operating systems, including Microsoft® Windows® and Linux®.

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### Investment protection and ease of use

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With rigorous testing by IBM through the ServerProven program, you can maintain a high degree of confidence that your IBM storage subsystem is compatible and will function reliably.

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### Compatibility

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- Support for popular network operating systems
- ServerProven testing: Verifies servers
- Supported on System x and BladeCenter servers

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## Product number

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Description	Part number
IBM UltraSlim Enhanced SATA DVD-ROM	46M0901
IBM UltraSlim Enhanced SATA Multi-Burner	46M0902

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## Terms and conditions

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

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### Warranty and service

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- Warranty period: One year.
- HelpWare®: Contact your IBM HelpWare number, your place of purchase, or your local IBM office.

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## Technical information

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### Product names

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- IBM UltraSlim Enhanced SATA DVD-ROM (46M0901)
- IBM UltraSlim Enhanced SATA Multi-Burner (46M0902)

### Performance specifications

#### SATA drives

#### Media read speed (maximum)

- CD-ROM 24X
- CD-DA (DAE) 20X
- CD-R 24X
- CD-RW 24X
- DVD-ROM (single layer) 8X
- DVD-ROM (dual layer) 8X
- DVD-R (4.7 GB) 6X
- DVD-R DL 4X
- DVD+R 6X
- DVD+R DL 4X
- DVD-RW (4.7 GB) 4X
- DVD+RW 4X
- DVD-RAM (4.7/9.4 GB) 4X

#### Write speed (maximum) for Multi-Burner only:

- CD-R 24X
- CD-RW 4X
- High Speed CD-RW 10X
- Ultra Speed CD-RW 16X
- Ultra Speed Plus CD-RW 16X
- DVD-R 8X
- DVD-R DL 6X
- DVD+R 8X
- DVD+R DL 6X
- DVD-RW 6X
- DVD+RW 8X
- DVD-RAM 5X

#### ***Physical specifications***

##### SATA drives UltraSlim

- Height: 12.7 mm (0.5 in)
- Width: 128 mm (5 in)
- Length: 129 mm (5.09 in)
- Weight: 180 g (0.4 lb)

**Note:** All measurements are approximate.

#### ***Operating environment***

- Temperature:
  - Operational: 5 to 50 degrees C (41 to 122 F) at 0 to 914 m (0 to 3000 ft), noncondensing
  - Nonoperational: -20 to +60 degrees C (-4 to +140 F) at 914 m to 2,133 m (3,000 to 7,000 ft), noncondensing
- Relative humidity:
  - Operational: 15% to 80%, noncondensing
  - Nonoperational: 10% to 90%, noncondensing

### **Agency approvals**

- UL
- CSA
- TUV
- CE Mark
- C-Tick Mark
- IEC
- Taiwan (BSMI Certification)
- Korea EMI

### **Energy Star compliance**

Is this product Energy Star Compliant? No

**Note:** The Energy Star emblem does not represent EPA endorsement of any product or service.

### **Hardware requirements**

The UltraSlim and Half-High Drives are supported on the following IBM platforms:

System name	Machine type
System x	All SATA models
BladeCenter	All SATA models

### **Software requirements**

Support for all major operating systems:

- Microsoft Windows
- Linux Red Hat
- VMware
- SUSE Linux

### **Compatibility**

For the latest compatibility information, visit

<http://www.ibm.com/servers/eserver/serverproven/compat/us/>

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

### **Limitations**

Requires a SAS/SATA controller.

### **Planning information**

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Additional cable orders required: No

Approximate installation time: 20 minutes

### **Packaging**

One box

### **Shipment group**

- UltraSlim drive

- Installation publication and warranty
- Safety flyer

### **Packaging dimensions and weight**

- Height: 26.1 mm (1.03 in)
- Width: 114 mm (4.5 in)
- Depth: 152 mm (6.0 in)
- Weight: 454 gms (2.3 lb)

**Note:** All measurements are approximate.

### **Security, auditability, and control**

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This product uses the security and auditability features of the host hardware, host software, and application software.

### **Terms and conditions**

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IBM Direct terms and conditions  
Features and options only

Field installable	Yes
Customer setup	Yes
warranty period <sup>2</sup>	1 year
Service type (CCE/CCR/CRU)	CRU <sup>3</sup>
Maintenance agreement	No
Optional upgrade	No
Licensed programs	No

**Note:** Programs included with this product are licensed under the terms and conditions of the License Agreements that are shipped with the feature or option. All other terms and conditions are the same as those applicable to the IBM machine type in which the feature is installed.

<sup>2</sup> To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or call IBM.

<sup>3</sup> This optional feature is designed as a Customer Replacement Unit (CRU).

### **Licensed Machine Code**

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IBM Machine Code is licensed for use by a customer on the IBM machine for which it was provided by IBM under the terms and conditions of the IBM License Agreement for Machine Code, to enable the machine to function in accordance with its specifications, and only for the capacity authorized by IBM and acquired by the customer. You can obtain the agreement by contacting your IBM representative or visiting

[http://www-1.ibm.com/servers/support/machine\\_warranties/machine\\_code.html](http://www-1.ibm.com/servers/support/machine_warranties/machine_code.html)

IBM may release changes to the Machine Code. IBM plans to make the Machine Code changes available for download from the IBM System x technical support Web site

<http://www-304.ibm.com/systems/support/>

If the machine does not function as warranted and your problem can be resolved through your application of downloadable Machine Code, you are responsible for downloading and installing these designated Machine Code changes as IBM specifies. If you would prefer, you may request IBM to install downloadable Machine Code changes; however, you may be charged for that service.

## HelpWare

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HelpWare Service comes with delivery of every IBM system in all European countries.

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## Prices

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For all local charges, contact your sales representative.

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## Announcement countries

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All European, Middle Eastern, and African countries.

### **Trademarks**

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