



IBM DDS Generation 5 USB Tape Drive offers a reliable, economical, and versatile tape backup subsystem

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At a glance

The DDS Generation 5 USB Tape Drive brings performance and capacity in a 5.25-inch, half-high form factor to entry and midrange System x® systems. Key features include:

- Up to 36 GB native capacity, and up to 72 GB in compressed mode¹
- Up to 3.0 MB/s native backup rate, and up to 6 MB/s in compressed mode
- USB interface
- Support from leading operating systems and popular backup software
- Backward compatibility with DDS 3, DDS 4, and DDS Gen 5

Overview

IBM Digital Data Storage (DDS) Generation 5 USB Tape Drive Option (46C5399)

The new IBM® DDS Generation 5 USB Tape Drive maintains the competitive total cost of ownership (TCO) of Digital Data Storage. Its USB interface supports internal plug-and-play capability with the latest System x systems, as well as external attachment in one of IBM's external tape drive enclosures. This option complements the existing IBM DDS Generation 5 SATA tape drive, and in some cases, provides better overall value as no separate SAS HBA is required when configuring in select system x servers.

Key messages:

- New USB interface allowing for direct internal connections with select System x systems
- Complementary offering for DDS Gen 5 SATA drive
- 5.25-inch half-high form factor

Features and functions:

- Capacity: 36 GB, up to 72 GB compressed
- Performance: Up to 3.0 MB/s (up to 6 MB/s compressed) transfer rate
- Backward compatibility: Read/write compatible with DDS 3, DDS 4, and DDS Gen 5
- Interface: USB
- Service and support: One-year parts only

The DDS Generation 5 USB Tape Drive complements the IBM System x server product line.

This tape drive is reliable as:

- An internal installation in select System x servers
- A tabletop tape enclosure or in a rack environment when coupled with a 1U rack-mount enclosure

It provides convenience and ease-of-use features, while supporting high-speed tape backup.

This option, used in conjunction with one of IBM's external enclosures, provides an economical and convenient method of attaching USB-based tape drives externally to your IBM System x system.

In this case you would:

- Determine the internal USB drive or drives you wish to make external
- Match this number to the appropriate IBM base enclosure (8767HHX, 87651UX)

¹ Based on using the onboard hardware data compression feature and assuming a 2:1 compression ratio. Data compression is dependent on many factors and is often less than stated.

Key prerequisites

- Available internal or external USB port
- Available 5.25-inch half-high bay for internal installations
- Supported external tape enclosure for external attachment

Planned availability date

October 30, 2009

Product positioning

This DDS Generation 5 USB tape product joins the DDS tape drive family to create a comprehensive family of tape backup solutions.

IBM provides a breadth of performance and capacity solutions to satisfy your server tape backup requirements.

This tape drive is positioned similarly to the DDS-5 SATA tape drive, but offers lower overall cost of ownership in select system x servers.

Product number

Description	Part number
IBM DDS Generation 5 USB Tape Drive	46C5399

Technical information

Performance specifications

- Capacity of 72 GB (compressed) per cartridge, transfer rate up to 6.0 MB/s (compressed)
- USB interface

Physical specifications

- Approximate height: 42.6 mm (1.68 in)
- Approximate width: 146.0 mm (5.5 in)
- Approximate depth: 152.0 mm (5.7 in)

Operating environment

- Temperature: 5 to 45 (C) 41 to 113 (F)
- Relative humidity: 20% to 80%, non-condensing

Agency approvals

UL, cUL, TUV, CE C-Tick

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

IBM Systems: The DDS Generation 5 USB Tape Drive, P/N 46C5399 is supported on the following IBM platforms.

System Name	x3200 M3	Machine Type	Model	All
	x3200 M2			All
	x3250 M2			All
	x3250 M3			All
	x3400	7973, 74, 75, 76		All
	x3400 M2			
	x3500	7977		All
	x3500 M2			
	x3550 M2			All
	x3650	7979		All
	x3650 M2			
	43V5959	TEK		
	49Y9883	TEK 3650		All
	8767HHX/HNX			
	87651UX/1NX			

Note: System support does periodically change. For the latest compatibility matrix, visit

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/index.html>

Then choose "System x Compatibility," then choose "Tape Backup Units."

Non-IBM Systems: The DDS Generation 5 Tape Drive is not supported on non-IBM platforms.

Software requirements

The DDS Generation 5 tape drive is supported on numerous operating systems and backup applications. The complete list can be found at the site referenced in the following section.

Compatibility

The best place to view the most current hardware and software support matrix is at

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/index.html>

Limitations

None

Planning information

Additional cable orders required: No

Approximate installation time: 30 minutes

Packaging

One box

Shipment group

- DDS Generation 5 USB Tape Drive
- Package of mounting screws
- Multilingual User Manual CD
- Quantity four internal USB cables
- Cleaning cartridge

Retail only

Packaging dimensions and weight

Single box (HxDxW): 158.8 mm (6.25 in) x 342.9 mm (13.5 in) x 279.4 mm (11.0 in)

Publications

Description	Order number	Part number	Distribution location
User Guide CD	49Y9888	49Y9888	SDS

Security, auditability, and control

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

Terms and conditions

Features and options only

Field Installable	Yes
Customer Setup	Yes
Warranty Period	1 year * parts only
Service Type (IOR/IOE/CCE/CCR)	CRU **
Maintenance Agreement	No
Optional Upgrade	No
Licensed Programs	Yes

Note:IBM programs are licensed under the terms and conditions of the IBM License Agreements that ship with the product. Non-IBM programs are available from IBM as distributed by the program supplier. All other terms and conditions are the same as those applicable to the IBM machine type in which the feature is installed.

* Optional features initially installed with a System x server carry the same warranty classification as the system. If installed after the initial system installation, they carry the balance of the system or the optional feature warranty, whichever is greater.

** This optional feature is designated as Customer Replacement Unit (CRU).

Copies of the IBM Statement of Limited Warranty can be obtained by contacting your reseller or accessing the online services listed in the Help and Service Information section of this announcement.

Help and service Information -- Features and options

During the warranty period, technical support can be obtained by accessing IBM's online services or calling 24 hours a day, 7 days a week, to answer any questions regarding your new IBM 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 IBM option is installed in an IBM computer, you may be entitled to service at your location. Your technical support representative can help you determine the best alternative.

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AP distribution

Country/Region	Announced
AP IOT	
ASEAN*	Yes
India/South Asia**	Yes
Australia	Yes
People's Republic of China	Yes
Hong Kong S.A.R of the PRC	Yes
Macao S.A.R of the PRC	Yes
Taiwan	Yes
Korea	Yes
New Zealand	Yes
Japan IOT	
Japan	Yes

* Brunei Darussalam, Indonesia, Cambodia, Lao People's Democratic Republic, Malaysia, Philippines, Singapore, Thailand, and Vietnam

** Bangladesh, Bhutan, India, Sri Lanka, Maldives, Nepal, and Afghanistan

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