



HP StorageWorks D2D100  
Backup Systems



HP StorageWorks D2D2500  
Backup Systems



HP StorageWorks D2D4000  
Backup Systems



## HP StorageWorks D2D Backup Systems family

### Data sheet

HP StorageWorks D2D100, D2D2500 and D2D4000 Backup Systems deliver consolidated, automated disk-based backup designed expressly for the needs of small and medium size IT environments including remote and branch offices.

HP StorageWorks D2D Backup Systems family delivers automated consolidated disk-based data protection for multiple servers in a single, self-managing device available in tower, 1U and 2U rack-mountable form-factors.

Compatible with your existing IT infrastructure, the HP D2D Backup Systems work with your current backup software application to fully automate the daily backup of up to either six or sixteen servers onto a

single device. By consolidating backups to the HP D2D Backup System, fewer resources are required to manage your daily backup jobs and the risk of human error, that often occurs when managing multiple tape devices and tape media, is greatly reduced.

Furthermore, the simultaneous backup of multiple servers at disk performance levels reduces the time required to complete daily backups, dramatically reducing your overall backup window.

Due to online accessibility of disk-based storage, the HP D2D Backup Systems allow you to restore lost or corrupted files from backups within minutes. In addition, the HP StorageWorks D2D2500 and D2D4000 Backup Systems also feature Dynamic deduplication which removes redundant data as backups occur to reduce the amount of backup capacity required on disk, resulting in up to 50x\* more backup data retained in the same disk footprint.

\*NOTE: Assumes standard business data mix, actual results will vary with data type, backup methodology and the length of time data is retained

This cost-effective approach allows you to store more data on disk for longer periods of time, providing fast access to an increased number of available 'recovery points'. The HP D2D Backup Systems get users back to work quickly, reducing downtime costs and frustration, while contributing to the overall productivity of your business.

The HP D2D Backup Systems work directly with HP LTO tape drives to create a disk-to-disk-to-tape (D2D2T) data protection solution. A data export feature in the user interface allows you to directly offload data to an LTO tape drive, providing an additional level of data protection to meet your disaster recovery and archiving requirements. Additionally, the devices can be managed remotely through a browser-based user interface giving you anywhere, anytime access to your backup jobs.

At less than the cost of comparable solutions, the HP StorageWorks D2D Backup Systems have been designed to deliver a solution that is affordable, easy to deploy and simple to use so that organizations with very limited IT resources can enjoy reliable backup and the benefits of the robust two-tiered D2D2T data protection strategy.

## D2D Backup Systems Key features and benefits

**Simplify your data protection with hands-free daily backup:** Automating the backup process simplifies and reduces the time spent managing your data protection processes. Implementing unattended daily backup is especially good for environments with limited IT resources.

**Backup multiple servers faster:** Simultaneously backup multiple servers (from 6 to 16) to a single D2D Backup System at speeds up to 288 GB per hour (depending on which model you select) to substantially reduce your backup window.

**Make your backups more reliable:** Improve the overall reliability of your backup infrastructure by automating and consolidating the backup of multiple servers to a single D2D Backup System. This reduces the incidence of human error related to backup processes such as tape media rotation and management.

**Retain up to 50 times more backup data on disk with fast access for rapid recovery:** With the HP D2D2500 and D2D4000 products, Dynamic deduplication reduces the disk space required to store backup data

sets by up to 50x\* without impacting backup performance. Retaining more backup data on disk for longer periods of time results in greater data accessibility for rapid restore of lost or corrupt files and reduces the impact on business productivity.

## HP StorageWorks D2D100 Backup Systems

The entry-point solution for HP disk-based backup, the HP StorageWorks D2D100 Backup Systems are available in a tower form factor and designed for small businesses looking to protect up to 6 servers with up to 3 TBs of backup capacity. You can choose to fully integrate a HP LTO Ultrium Tape Drive into your HP D2D100 creating a robust D2D2T solution with cost-effective archival and disaster recovery capabilities.

## HP StorageWorks D2D2500 Backup Systems

HP StorageWorks D2D2500 Backup System is an entry-level disk-based backup solution in a 1U rack-mount form factor. Designed to reduce IT intervention, it is targeted at smaller IT environments and remote or branch offices with up to 6 servers connected via a standard Ethernet network and the requirement for up to 3 TBs of data. The HP D2D2500 also includes HP Dynamic deduplication to allow up to 50x\* more backup data to be retained on disk providing more affordable storage and rapid recovery of lost files.

## HP StorageWorks D2D4000 Backup Systems

The highest capacity and performance point in the HP D2D Backup System family, the HP StorageWorks D2D4000 Backup System delivers a 2U rack-mountable solution for medium size IT environments looking to reduce IT intervention in the daily backup of up to 16 servers. A choice of 4.5 and 9 TB raw capacities and speeds of up to 288 GB per hour over either an iSCSI or Fibre Channel interface help to reduce the backup window. The HP D2D4000 includes Dynamic deduplication to allow up to 50x\* more backup data to be retained on disk for more affordable storage and rapid recovery of lost files. Integrated hardware-based RAID 6 further increases your data integrity.

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\*NOTE: Assumes standard business data mix, actual results will vary with data type, backup methodology and the length of time data is retained

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**HP StorageWorks D2D Backup Systems at a glance**

D2D100	D2D2500	D2D4000
Tower	1U Rack	2U Rack
Protects up to 6 servers	Protects up to 6 servers	Protects up to 16 servers
Up to 3 TB raw capacity	Up to 3 TB raw capacity	Up to 9 TB raw capacity
Up to 50 MB/sec performance	Up to 50 MB/sec performance	More than 80 MB/sec performance
No data deduplication	Dynamic deduplication	Dynamic deduplication
Software RAID 5	Hardware RAID 5	Hardware RAID 6

**Technical specifications:**  
HP StorageWorks D2D Backup System Family

**HP StorageWorks D2D100 Backup Systems**



**HP StorageWorks D2D2500 Backup Systems**



**HP StorageWorks D2D4000 Backup Systems**



<b>Models</b>	D2D120 D2D130	D2D2503i	D2D4004i D2D4004fc D2D4009i D2D4009fc
<b>Form factor</b>	Tower	1U Rack	2U Rack
<b>Total raw capacity</b>	2.0 TB (D2D120) 3.0 TB (D2D130)	3.0 TB (D2D2503i)	4.5 TB (D2D4004) 9.0 TB (D2D4009)
<b>Total useable capacity</b>	1.5 TB (D2D120) 2.25 TB (D2D130)	2.25 TB (D2D2503i)	3.0 TB (D2D4004) 7.5 TB (D2D4009)
<b>Performance</b> (maximum data transfer rate)	50 MB/sec	50 MB/sec	80 MB/sec
<b>Number of interfaces per device</b>	1	2	2
<b>Type of device interfaces</b>	iSCSI (1 Gb Ethernet) (100Base-T also supported)	iSCSI (1 Gb Ethernet) (100Base-T also supported)	Two 1 Gb Ethernet (iSCSI) Two 4 Gb Fibre Channel
<b>Maximum number of servers supported per D2D System</b>	6	6	16
<b>Disk drive capacity, type</b>	500 GB SATA (D2D120) 750 GB SATA (D2D130)	750 GB SATA	750 GB SATA
<b>Disk drive form factor</b>	3.5"	3.5"	3.5"
<b>Disk drive speed</b>	7200 rpm	7200 rpm	7200 rpm
<b>Number of disk drives</b>	4	4	6 (D2D4004) 12 (D2D4009)
<b>RAID support</b>	Software RAID 5	Hardware RAID 5	Hardware RAID 6
<b>Tape devices emulated</b>	HP LTO-2 and LTO-3 tape drives and 1/8 Autoloader	HP LTO-2 and LTO-3 tape drives in 1/8 Autoloader or HP VLS generic library	HP LTO-2/LTO-3/LTO-4 tape drives in 1/8 Autoloader, MSL2024, MSL4048, HP VLS generic library
<b>Max number of tape devices emulated</b>	6	6	16
<b>Max number of virtual tape cartridges emulated</b>	96	144	768
<b>Optional integrated tape drives</b>	HP StorageWorks LTO-3 Ultrium 920	None	None
<b>Direct attach tape drives</b>	HP LTO-2, LTO-3 or LTO-4 Ultrium Tape Drives	HP LTO-2, LTO-3 or LTO-4 Ultrium Tape Drives	HP LTO-2, LTO-3 or LTO-4 Ultrium Tape Drives

For ordering information, please see QuickSpecs at [www.hp.com/go/QuickSpecs](http://www.hp.com/go/QuickSpecs)

To quickly find the HP storage products that fit your specific needs, visit [www.hp.com/go/product-selector](http://www.hp.com/go/product-selector)

## Warranty

1-year, next-day, parts exchange, limited warranty for the HP plus 9x5 phone support for the duration of the warranty.

## Service and Support

### Factory Express

HP Factory Express is designed to help you get a better return from your IT investment by providing customization, integration and deployment services along with your storage and server purchases. It provides predictable, trusted and tested IT solutions tailored to your business needs. We allow you to customize hardware to your exact specifications in the factory—helping to speed up deployment and free up internal resources. [www.hp.com/go/factoryexpress](http://www.hp.com/go/factoryexpress)

### Customer Technical Training

Consider education as an integral part of your strategy to get the best return on investment for your HP storage solution. HP offers a variety of training courses on storage software, networking, archiving and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led courses at one of our 80 training centers worldwide to on-site training customized to your needs or online. [www.hp.com/learn/storage](http://www.hp.com/learn/storage)

### Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage and ultimately retire their HP solutions. For more information on these services, please contact your HP representative or visit [www.hp.com/go/hpfinancialservices](http://www.hp.com/go/hpfinancialservices)

## HP Services

### HP StorageWorks D2D Backup Systems

When you buy a HP StorageWorks D2D Backup Storage Solution, it's also a good time to think about what level of service and support you may need. To help take the worry out of deploying and managing your environment, we've designed a portfolio of service options that are as flexible, scalable and affordable as your storage.

#### Recommended Services

- **3-Year Support Plus 24 Service**—Provides integrated hardware and software support services designed specifically for your technology. HP Services engineers deliver reactive onsite hardware support and over-the-phone software support around-the-clock.
- **Hardware Installation**—Provides initial hardware installation of your product into your technology environment (System configuration is not included).

#### Related Services

- **HP Backup and Recovery Solution Service for Data Protector**—helping you to design an architecture that meets your requirements, HP will deploy Data Protector, validate your configuration, and integrate the backup software solution into your existing or new storage infrastructure

For more information about HP services and support, contact your HP sales representative or HP-authorized Channel Partner or, visit [www.hp.com/hps/storage](http://www.hp.com/hps/storage)

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