

HP StorageWorks D2D Backup System

Data sheet



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The HP StorageWorks D2D Backup System provides reliable, consolidated data protection for up to four servers in a single, self-managing device. It works with your backup software application to fully automate daily backup jobs, requiring less manual handling—a real benefit for organizations with limited IT resources. The HP D2D Backup System also increases the reliability of your backups by reducing the risk of human error and problems with tape drive hardware and media, the two major causes of failed backups.

This disk-to-disk backup solution lets you easily restore lost or corrupted files from online backups within minutes. The HP D2D Backup System gets users back to work quickly, reducing downtime costs and frustration while contributing to the overall productivity of your business. It automates daily backup for up to four servers and lets you restore users' files in minutes instead of hours; easy-to-install, easy-to-use disk-based backup for small businesses and remote office.

The HP StorageWorks D2D Backup System uses a disk to emulate up to four tape autoloaders and works with your backup software application to provide automated backup for multiple servers at less than the cost of a single LTO tape autoloader. Consolidating your backups onto a disk-based device simplifies your life. Not only are there fewer devices to manage, but the intuitive, browser-based management interface lets you monitor your backup device at any time, even outside the office or away from your desk. The HP D2D Backup System can help to improve backup performance as well by supporting the direct backup of up to four servers simultaneously.

This simple solution fits right into your existing Windows® or Linux environment, working with your current hardware and software in most cases. Tape drives are still used to provide tape backups that can

be stored offsite for disaster recovery or archiving. Existing tape drives and backup software may be used with the HP D2D Backup System. Alternatively, the HP D2D Backup System is offered with an optional integrated LTO tape drive or with a Data Protector Express software kit.

Key benefits

Simplify your life with “hands-free” daily backup—Automating the backup process simplifies your data protection processes. Implementing unattended daily backup is especially good for businesses with limited IT resources.

Make your backups more reliable—Automation also makes your data protection processes more dependable by reducing the risks of human error and problems associated with tape hardware and media, the two biggest causes of failed backups. Backups happen when they should, day in and day out.

Take an affordable step toward consolidating your IT resources—Schedule daily backups to the HP D2D Backup System to provide automated backup for up to four servers at less than the cost of a single LTO autoloader. It's an affordable way to consolidate your daily backups onto a single disk-based device, with the option of consolidating your tape backup as well.

Restore lost data faster—Disk-based data protection provides online access to your backup data, allowing lost or corrupted files to be restored in minutes rather than hours or days. This means you can get your end users up and running quickly after data loss, reducing downtime and its impact on productivity.

Back up multiple servers faster—Backing up four servers simultaneously to a disk instead of one after the other to a tape drive or autoloader means that all backups get completed within your backup window.

Manage your backup system more easily—A browser-based application lets you monitor your backup device locally or remotely. Check on available capacity, view and change device setup, add or change e-mail alerts, and easily update device firmware.

Reduce the time you spend on routine maintenance—You won't be spending your time setting up RAID sets, defragmenting disks, applying security patches and running virus protection. The HP D2D Backup System requires virtually no maintenance—it's a self-managing appliance that reduces your IT workload.

Get the best of both worlds—disk and tape—Moving backups to a disk-based appliance with an integrated tape drive combines all the benefits of disk with the

comprehensive protection of tape. Use your backup application to copy data from the D2D Backup System to tape, or use the appliance's direct copy facility at any time of day without slowing down the network.

Integrate disk-based backup seamlessly into your current environment—The HP D2D Backup System makes your existing data protection regime more effective without major changes to your software or processes. Your backup application views this device as just another tape drive or autoloader, so you don't need to retrain your staff or completely change your backup regime.

HP Services

HP offers the world's broadest storage and server portfolio, backed by focused innovation, world-class partners and integrated with best-in-class software and services to create comprehensive yet flexible customer solutions. HP Services has end-to-end expertise in delivering solutions that help you improve your business agility. HP Service capabilities cover consulting and integration, outsourcing and support services. From initial assessment and design to technical integration and ongoing support, HP Services can be your single point of contact and accountability.

HP Storage services

HP Services provide nearly continuous care and support expertise with committed response times designed to meet your IT and business needs. To fully capitalize on your HP network storage solution capabilities you require a service provider who thoroughly understands your storage and server technologies, as well as your systems environment. HP Services, an industry leader in the provision of multi-vendor support solutions, provide a range of services designed to meet the varying needs of your demanding business. We understand your business and can work with what you have via our multi-platform skills and expertise.

HP Services can provide the precise type and level of storage support you require. We deliver leadership lifecycle services to help you design, build, integrate, manage and evolve network storage solutions:

- **A comprehensive service portfolio** including IT consulting, systems integration, installation and startup services, migration support, hardware and software support, outsourcing, recovery services and more.
- **Expert technical support** for today's heterogeneous storage area networks (SANs) and network attached storage (NAS), data backup technologies, and multi-vendor storage products.
- **A collaborative approach** that puts your needs first; support that gives you a single-point-of-accountability helping you cut the cost and complexity required to maintain your storage environment, manage your storage systems and protect your storage investments.

As one of the world's leading providers of network and storage services, HP and our HP Authorized Channel Partners have a proven track record in providing storage solutions, including many thousands of successful SAN and NAS implementations. With 69,000 service professionals in 170 countries, HP has been providing consistent storage solutions for over 30 years across the globe. HP is a leader in open, non-outsourced network storage support worldwide, and we offer world-class expertise in storage consolidation, storage management and business continuity.

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.

HP StorageWorks D2D Backup System

	D2D110 Backup System	D2D120 Backup System
Form factor	Tower	Tower
Total raw capacity	1 TB	2 TB
Total useable capacity	750 GB	1.5 TB
Performance (maximum data transfer rate)	40 MB/sec	40 MB/sec
Number of device interfaces	1	1
Type of device interfaces	iSCSI	iSCSI
Maximum number of servers supported per D2D System	4	4
Disk drive capacity, type	250 GB SATA	500 GB SATA
Disk drive form factor	3.5"	3.5"
Disk drive speed	7200 rpm	7200 rpm
Number of disk drives	4	4
RAID support	Software RAID 5	Software RAID 5
Tape devices emulated	HP LTO Ultrium 2 tape drive, HP 1/8 LTO Ultrium 2 autoloader	HP LTO Ultrium 2 tape drive, HP 1/8 LTO Ultrium 2 autoloader
Maximum number of tape devices emulated	4	4
Maximum number of virtual tape cartridges emulated	96	96
Internal tape drives supported* (connected to D2D Backup System)	HP Ultrium 448, HP Ultrium 920	HP Ultrium 448, HP Ultrium 920
External tape drives supported* (connected to D2D Backup System)	HP Ultrium 448, HP Ultrium 460, HP Ultrium 920, HP Ultrium 960	HP Ultrium 448, HP Ultrium 460, HP Ultrium 920, HP Ultrium 960
What's in the box?	D2D110 Backup System tower, Ethernet cable, power cord, installation poster, HP StorageWorks CD-ROM (contains installation wizard, device drivers and documentation). Data Protector Express version varies by model. Some models include integrated HP Ultrium 448 SAS internal tape drive.	D2D110 Backup System tower, Ethernet cable, power cord, installation poster, HP StorageWorks CD-ROM (contains installation wizard, device drivers and documentation). Data Protector Express version varies by model. Some models include integrated HP Ultrium 920 SAS internal tape drive.

*Requires the installation of an HP supported host bus adapter. Please see QuickSpecs for supported options.

For ordering information, please see QuickSpecs at www.hp.com/go/QuickSpecs.

HP StorageWorks Data Protector Express software

HP StorageWorks Data Protector Express software for backup and recovery provides simple, reliable and efficient data protection. Designed for organizations without dedicated disaster recovery staff, it is easy to install, operate and manage. Including the HP D2D Backup System, Data Protector Express also supports other storage solutions such as tape, disk and optical devices as backup media. Agents provide online protection for networked file servers, application servers and Windows-based desktop machines. Data Protector Express delivers high performance that minimizes the impact of backup and recovery operations.

Warranty and included services

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

For models that include an integrated tape drive, the tape drive carries its own separate 3-year, next-day, parts exchange, limited warranty, with 9x5 phone support for the duration of the warranty.

HP warrants only that the software media will be free of physical defects for a period of 90 days from delivery. For more information about our Global Limited Warranty and Technical Support, visit www.hp.com/products/storageworks/warranty.

HP Care Pack Services

HP Care Pack Services offer upgraded service levels to extend and expand your standard product warranty with easy-to-buy, easy-to-use support packages that help you make the most of your hardware and software investments. They let you choose the support levels that meet your business requirements, from basic to mission-critical. They help you contain total cost of ownership.

HP Care Pack warranty extensions can be purchased along with HP products to cost-effectively upgrade or extend your warranty. For many products, post-warranty HP Care Pack Services are available when your original warranty has expired. For more information on these services, contact your local HP sales representative, authorized HP business partner or visit http://www.hp.com/services/storage_carepacks.

Additional HP support services

HP Services provides a broad spectrum of services to commercial and enterprise customers, including performance and availability services such as proactive mission-critical services, as well as support management services for deployment of the entire IT infrastructure, including HP and multi-vendor environments. For more information on these services, contact your HP sales representative, authorized HP business partner or visit www.hp.com/hps/storage.

Education services

HP offers a variety of training methods to fit your needs including traditional instructor-led courses at one of our 120 training centers worldwide, onsite training customized to your needs, in your facility, or even remotely assisted instruction learning that combines the best of traditional classroom training (including its live instructor and labs) with the best of online training (no traveling required). And if you like learning on your own schedule, at your own pace, make use of e-learning opportunities on the award-winning HP IT Resource Center, a learning community with extensive on-demand resources that can be accessed 24x7. For more information on these services, contact your HP sales representative, authorized HP business partner or visit <http://education.hp.com/curr-storsan.htm>.

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 sales representative or visit www.hp.com/go/hpfinancialservices.

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