



StorageTek® D178 Disk Subsystem

KEY BUSINESS BENEFITS

With the StorageTek® D178 disk subsystem, your business will benefit from:

Ultra high performance. Deliver better service to your customers with faster access and response times.

Pay-as-you-grow scalability. Manage growing online storage requirements cost effectively. With D-Series open architecture and modularity, you can scale seamlessly up to 40 terabytes.

Centralized management. Increase productivity with the D-Series software suite. Gain single view, non-disruptive storage management from your IT shop floor or from remote locations.

SAN readiness. Realize the promise of SANs with fabric log-in support and multi-host heterogeneous support. With the D-Series software suite, share your D178 subsystem as a SAN resource while you ensure secure, dedicated online storage.

Professional services and support. Maintain one-source accountability with evaluation, recommendations and support from StorageTek.

Meet your enterprise IT goals

In times of rapidly changing business requirements, you need cost-effective online storage that adapts easily. The robust StorageTek® D178 disk subsystem, brought to you through a strategic alliance between StorageTek and LSI Logic Storage Systems, is designed to help you meet your requirements with flexibility, high performance and manageability.

Designed for enterprise open systems online storage environments, the two-gigabit Fibre Channel D178 disk subsystem supports more than 40 terabytes of information. With exceptional scalability, throughput and I/O rates, the D178 subsystem gives you the power to meet rigorous workload demands and position your business for the future.

Compare...and see the value

The modularity of the D178 subsystem gives you pay-as-you-grow flexibility to reconfigure systems to meet various levels of performance, capacity and availability. Plus, its downward compatibility from one product generation to the next lets you avoid costly forklift upgrades and maintain investment protection.

Centralize and simplify management

The D-Series software suite provides a consistent interface across all supported platforms and centralized, non-disruptive administration of one or more D-Series subsystems. You can set up storage quickly, add capacity, configure changes, partition storage, map any volume to any server and mix drive capacities and RAID levels. Robust event monitoring and notification capabilities help you resolve issues immediately. Storage partitioning and data replication features provide even more operational flexibility.



Lower your total cost of ownership with virtualization

Combine the host-level virtualization capabilities of StorageTek's Application Storage Manager™ (ASM) software with D-Series disk products to dramatically reduce the total cost of ownership across your data storage system. ASM software integrates tape and disk into a seamless storage system and enables you to control storage costs throughout the information life cycle. With ASM software, you can manage data across a multi-tiered storage hierarchy, automatically and transparently, according to the unique requirements of your business environment.

D178 disk subsystem specifications

Performance data

Maximum sustained I/O rate from cache	110,000 I/O per sec
Maximum sustained I/O rate from media	32,500 I/O per sec
Maximum sustained transfer rate from media	390 MB/sec
Maximum sustained single-channel transfer rate from media	195 MB/sec
Number of drives in a single cabinet	14 - 154
Number of drives supported	14 - 224
Cache size per controller	1 GB (2 GB mirrored)

Capacity

36 GB Fibre Channel drives (10,000 and 15,000 rpm)	504 GB - 8.1 TB
73 GB Fibre Channel drives (10,000 rpm)	1.0 TB - 16.4 TB
180 GB Fibre Channel drives (7,200 rpm)	1.8 TB - 40.3 TB

Host/drive connections

Eight 2-Gb Fibre Channel host-side connections
Four 2-Gb* Fibre Channel drive-side connections

Availability

Supports RAID levels 0, 1, 3, 5 and 1+0

Physical characteristics

Rackmount	Maximum # of disk drives	Height	Width	Depth	Weight
D178 001 control module	N/A	6.9 in (17.5 cm)	19 in (48.2 cm)	24.8 in (63.2 cm)	97 lb (44 kg)
D200 014 control module	14	6.9 in (17.5 cm)	19 in (48.2 cm)	24.8 in (63.2 cm)	97 lb (44 kg)
9170 014 drive module	14	5.2 in (13.1 cm)	19 in (48.2 cm)	22.8 in (57.9 cm)	88 lb (40 kg)
9170 010 drive module	10	5.2 in (13.1 cm)	19 in (48.2 cm)	22.8 in (57.9 cm)	88 lb (40 kg)

Full configuration (two cabinets-one control module, sixteen 9170.014 drive modules):

Totals	72 in (182.8 cm)	44 in (111.8 cm)	36 in (91.5 cm)	2,039 lb (927 kg)
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Operating environment

Temperature	+50° F to +104° F (+10° C to +40° C)
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Safety and emissions

Electromagnetic compliance	EN 5502 Class A EN 50082-1, including IEC 801-2, IEC 801-3, IEC 801-4 FCC Class A VCCI Class I
Safety compliance	UL 9150 CSA 22.2 No. 950 IEC 950 EN 60950

Power source

U.S. and Japan International	115 V, 15A, NEMA 5-15 230 V, 10A, power connection as required
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* Current availability in 1-Gb drive modules



About StorageTek®

StorageTek® (NYSE:STK), a \$2 billion worldwide company with headquarters in Louisville, Colo., delivers a broad range of storage solutions for digitized data. StorageTek solutions are easy to manage and allow universal access to data across servers, media types and storage networks. StorageTek is the innovator and global leader in virtual storage solutions for tape automation, disk storage systems and storage networking. Because of StorageTek, customers can manage and leverage their digital assets as their businesses grow, and can maximize IT productivity to ensure enterprise-class business continuity. For more information, see www.storageitek.com or call 1.800.786.7835.

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About LSI Logic Storage Systems, Inc.

LSI Logic® Storage Systems, Inc., a subsidiary of LSI Logic Corporation, builds high performance, highly scalable storage systems and sophisticated, multi-vendor storage management applications for resource optimization and consolidation in the open enterprise. For more information, please call 1-888-638-2786 or 1-408-433-8686 or visit www.lsillogicstorage.com.

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