

BladeStore Disk System

Affordable, high-capacity online storage

StorageTek Disk Subsystem

Key Business Benefits

> Increased Return-On-Investment

Purchase disk systems optimized for the application and data workload. Use BladeStore for your fixed content storage and distribution, disk-to-disk backup and data replication applications. Use expensive primary disk systems for the demanding high-volume transaction processing applications. Result is reduction in overall disk system purchase and implementation costs.

> Faster Access to Fixed Content

BladeStore performance and capacity allow you to more cost-effectively place the most active fixed content information (images, video, documents, emails) online for faster response times to your customers.

> Improved Data Protection

Replicate more business critical data to improve disaster recovery and business continuance capabilities. Improve backup and recovery performance while simplifying operations.

> Efficient Use of Floor Space

BladeStore's best in-class, 8 TB in 6U and scaling to 160 TB in four standard racks, provides for maximum storage density in the smallest footprint, making the most use of your finite floor space.

> Seamless Integration with Existing Applications and Operations

Take advantage of the benefits ATA disk-based storage systems deliver without modifying existing software applications or compromising performance, reliability, availability and serviceability.

Cost-effective protection for your company's information.

The StorageTek BladeStore disk system gives you online storage at a fraction of traditional disk-based storage costs. Combining the benefits of ATA disk drives, Fibre Channel and an enterprise-class RAID controller and system enclosure, BladeStore gives you a cost-effective way to implement more disk where it will benefit your business the most.

Heterogeneous support in SAN and direct host attach environments. BladeStore offers seamless integration with all major open system O/S platforms. BladeStore's storage blades appear as standard high-capacity Fibre Channel disk drives, so BladeStore can be easily integrated as a powerful, high-capacity storage unit within your existing environment without changes to your existing software. BladeStore is fully SAN capable and supported in direct host attach environments.

Superior Performance. With StorageTek Intelligent BladeStore Architecture (IBA), BladeStore delivers transfer rates of up to 400 MB per second, allowing you to take advantage of ATA disk technology yet still meet demanding storage requirements.

Powerful, simple software. All administrative tasks, including configuration, re-configuration, expansion, maintenance and tuning, can be achieved with no system downtime and no interruption to system I/O, from any location on the network – regardless of host or client platform. With the storage partitioning feature, a single BladeStore system can be logically partitioned and shared with as many as 64 hosts in your SAN environment.

Enterprise-class reliability. BladeStore incorporates features found in most enterprise-class disk subsystems, such as redundant, hot-swappable power modules and cooling fans. An enterprise-class RAID controller provides for complete data protection capabilities.

Broad application support. BladeStore is supported by leading independent software vendors and solution providers that deliver solutions for backup/recovery, storage management, data replication and fixed content management.

Scalable capacity. BladeStore disk subsystems provide pay-as-you-grow scalability from 4 TB to 160 TB. With 8 TB in a single 6U disk array, a 160 TB subsystem can be housed in four standard rack units.

Optimized primary disk investment. Using BladeStore for your secondary disk or capacity disk applications, you can better utilize your expensive primary disk for the applications it is designed for, such as high-volume online transaction processing – you don't pay for more disk than you need.



Maximum storage density. A BladeStore disk array holds 10 high-capacity storage blades. System shown contains five arrays and controller for 40 TB of total capacity.



StorageTek BladeStore disk subsystem specifications

Performance						
Maximum sustained transfer rate - disk subsystem*		400 MB per second				
Maximum sustained transfer rate - single B150 disk array		197 MB per second				
I/O Rate		20,000 I/O per second				
Cache size per BC84 controller		2 GB (1 GB mirrored)				
Read cache size per blade		96 MB				
Capacity						
Number of storage blades per disk array		10				
Number of storage blades supported per controller		200				
Storage blade capacity		800 GB				
System Capacity - with 800 GB storage blades:		4 TB – 160 TB				
B150 disk array capacity (10 blades)		8 TB				
1 M04 cabinet capacity (6 arrays)		48 TB				
Host/drive connections						
Eight 2-Gigabit Fibre Channel host-side connections						
Four 1-Gigabit Fibre Channel drive-side connections						
Availability						
Supports RAID levels 0, 1, 3, 5 and 1+0						
Physical characteristics						
Rackmount	Maximum # of blades	Height	Unit Height	Width	Depth	Weight
BC84 002 control module	N/A	6.9 in	4U	19.0 in	24.8 in	97.0 lb
B150 001 disk array	10	10.2 in	6U	18.9 in	31.9 in	160.0 lb
M04 cabinet	60	75.0 in	39U	24.0 in	38.0 in	150.0 lb
Software						
BladeStore Storage Management Software (based on SANtricity™ Storage Manager and SANshare™ Storage Partitioning)						
Operating system support						
Configuration/monitoring						
SMGR BDS BladeStore Storage Manager software OS support		Windows NT	Windows 98			
		Windows 2000	Solaris			
		HP-UX	IRIX			
		AIX	Linux			
		Netware				
SHAR BDS Storage Partitioning		4, 8, 16, 64 Partitions				
Operating temperature						
+50°F to +104°F (+10°C to +40°C)						
Heat dissipation **						
2904 Btu/hr (based on 1.12 kVA or 851 W power consumption)						
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 requirements						
U.S. and Japan 115 V, 15A, NEMA 5-15						
International 230 V, 10A, power connection as required						

*Disk subsystem consisting of BC84 controller and two B150 disk arrays

**kVA, W, and Btu calculations for typical tray configurations: 10 blades, four DCPs and two ESM 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 continuity. For more information, see www.storageetek.com or call **1.800.786.7835**.

World Headquarters

Storage Technology Corporation
One StorageTek Drive
Louisville, Colorado 80028 USA
Phone: 1.800.786.7835
Fax: 719.536.4053

International Offices

Australia: 61.2.9433.4844
Austria: 0800.20.16.31
Belgium: 0800.75.327
Brazil: 55.11.3044.4599
Canada: 905.602.5586
China: 86.10.8251.1911
Denmark: 8088.0744
Finland: 08001.13361
France: 0800.82.83.57
Germany: 0800.181.6238
Hong Kong: 852.8200.0791
India: 91.80.226.7272
Ireland: 1800.55.33.54
Italy: 167.790.852
Japan: 81.3.3746.9711
Korea: 82.2.191.1100
Malaysia: 603.772.41125
Mexico: 52.55.5258.8000
The Netherlands: 0800.022.8496
Norway: 800.11.220
Poland: 48.22.5757.157
Singapore: 65.6774.9248
South Africa: 0800.99.5820
Spain: 900.99.33.66
Sweden: 020.798.711
Switzerland: 0800.83.87.65
Taiwan: 886.2.6600.9840
United Arab Emirates: 971.4.3913515
United Kingdom: 0800.731.8852

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