

# 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, 12.5 TB in 6U and scaling to 150 TB in two 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 6.25 TB to 150 TB. With 12.5 TB in a single 6U disk array, a 150 TB subsystem can be housed in two 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 62.5 TB of total capacity.

## StorageTek BladeStore disk subsystem specifications

<b>Performance</b>						
Maximum sustained transfer rate - disk subsystem*	400 MB/sec.					
Maximum sustained transfer rate - single B150 disk array	197 MB/sec.					
I/O Rate	20,000 I/O MB/sec.					
Cache size per BC84 controller	2 GB (1 GB mirrored)					
Read cache size per blade	96 MB					
<b>Capacity</b>						
Number of storage blades per disk array	10					
Number of storage blades supported per controller	120					
Storage blade capacity	1.25 TB					
System capacity - with 1.25 TB storage blades:	6.25 TB – 150 TB					
B150 disk array capacity (10 blades)	12.5 TB					
1 F40 cabinet capacity (6 arrays)	75 TB					
<b>Host/drive connections</b>						
Eight 2 Gigabit Fibre Channel host-side connections						
Four 1 Gigabit Fibre Channel drive-side connections						
<b>Availability</b>						
Supports RAID levels 0, 1, 3, 5 and 1+0						
<b>Physical characteristics</b>						
<b>Rackmount</b>	<b>Maximum # of blades</b>	<b>Height</b>	<b>Unit height</b>	<b>Width</b>	<b>Depth</b>	<b>Weight</b>
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
F40 cabinet	60	76.75 in	40U	24.0 in	38.0 in	150.0 lb
<b>Software</b>						
BladeStore Storage Management Software (based on SANtricity™ Storage Manager and SANshare™ Storage Partitioning)						
<b>Operating system support</b>						
Configuration/monitoring						
SMGR BDS BladeStore Storage Manager software OS support	Windows NT	Windows 98				
	Windows 2000	Solaris				
	HP-UX	IRIX				
	AIX	Linux Redhat 7.2				
SHAR BDS Storage Partitioning	4, 8, 16, 64 Partitions					
<b>Operating temperature</b>						
+50°F to +104°F (+10°C to +40°C)						
<b>Heat dissipation **</b>						
2904 Btu/hr (based on 1.12 kVA or 851 W power consumption)						
<b>Electromagnetic compliance</b>						
EN 5502 Class A	EN 50082-1, including IEC 801-2, IEC 801-3, IEC 801-4					
FCC Class A	VCCI Class I					
<b>Safety compliance</b>						
UL 9150	CSA 22.2 No. 950					
IEC 950	EN 60950					
<b>Power requirements</b>						
In F40 Cabinet US 220V, 30A NEMA L6-30						
As stand alone: B150 Disk Array US and Japan 110V, 6A or 220V, 3A per line cord, NEMA 5-15 (4 line cords required)						
BC84 Control Module US and Japan 110V, 2A or 220V, 1A per line cord, NEMA 5-15 (2 line cords required)						
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 that are easy to manage, integrate well with existing infrastructures and allow universal access to data across servers, media types and networks. StorageTek provides practical and safe storage solutions in disk, networking, services, tape and tape automation. For more information, see [www.storageitek.com](http://www.storageitek.com), or call 1.800.786.7835.

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Replacement parts provided under warranty or any service offering may be either new or equivalent-to-new, at StorageTek's option.

MS 9128 C 03/03

