



BLADESTORE

BC84

BLADE SYSTEM

Key benefits

Cut costs

The BladeStore blade system architecture delivers enterprise-class online storage at a fraction of the cost of traditional access-centric disk storage.

Save space

Maximum density, minimum space. The BladeStore family has a small vertical footprint that saves valuable floor space in your data center.

Keep data available

The BC84 blade system keeps data flowing with redundant hot-swappable components and automatic failover for non-disruptive servicing.

Accelerate retrieval

Enterprise-class throughput means high-speed access to video, images, e-mail, documents and other fixed content.

Protect everything

BladeStore blade systems make it easy and affordable to replicate your business-critical data and protect it against everyday problems such as file deletions and corrupted data. Disaster recovery has never been simpler.

Grow as needed

Each BC84 controller supports up to 120 storage blades, providing up to 150 terabytes in two cabinets. With the BC84 blade system, you can grow into — not out of — your storage.



BladeStore BC84 blade system

If storage cost is interfering with data availability, it's time to take a look at the BladeStore BC84 blade system. This enterprise-class disk storage system provides an amazing amount of storage capacity at an amazingly low price. Now you have a cost-effective option for protecting data and keeping fixed content online, so it's available across your enterprise 24 x 7. With the BladeStore BC84 blade system, everyone who needs access to data has it, so your company's core knowledge can be put to good use.

Evolutionary storage, revolutionary architecture

All BladeStore blade systems feature StorageTek's blade architecture, which combines scalability and storage density at an affordable cost. The BladeStore BC84 blade system is no exception. This robust Advanced Technology Architecture (ATA) disk-based system is designed to evolve with your enterprise with "pay-as-you-grow" scalability. It features eight 2-gigabit-per-second Fibre Channel host ports, four 1-gigabit-per-second drive side connections, and up to 12 disk arrays for a storage capacity of up to 150 terabytes per controller. It's an amazing amount of online capacity, available around the clock to support your backup, disaster recovery and online storage needs. Now your enterprise's most valuable asset — business intelligence — can be backed up, protected and made available to those who need it. StorageTek® makes it possible; BladeStore blade systems make it affordable.



Built for efficiency

The BC84 blade system is ideal as a secondary disk or capacity extender, allowing you to use your premium-cost primary storage more efficiently. The BC84 blade system allows your higher-cost primary disk systems to be devoted exclusively to demanding high-volume transaction processing while the BC84 blade system works cost-effectively in the background, handling disk-to-disk backup, fixed-content storage and distribution, and mirroring and data replication.

Save money, save space

The BC84 blade system packs 150 terabytes of storage into two cabinets with a very small footprint. It revolutionizes the economics of enterprise storage, allowing you to freely choose how and where data should be stored for greatest efficiency across the enterprise. Storage capacity is integrated in high-density blades in vertical cabinets, allowing you to provide performance and availability for data users while optimizing or even reclaiming valuable floor space in your data center or data closet.

Enterprise-class reliability

The BC84 blade system delivers a level of reliability that's essential to enterprise storage. It incorporates features normally found only in more expensive disk subsystems such as redundant, hot-swappable power modules and cooling fans. An enterprise-class RAID controller provides for more complete data protection capabilities.

More data, less time

With a sustained data rate of up to 400 megabytes per second, the BC84 blade system acts as a powerful delivery system for real-time access to video, images, e-mail, documents and other digital assets. Performance comes from StorageTek's Intelligent BladeStore Architecture (IBA). This innovation packs multiple ATA disks on a single blade and combines them with the same high-performing control electronics used in the D-Series™ disk array family. IBA allows BladeStore blade systems to provide category-leading throughput for ATA-based disk systems.

Better backup, faster recovery

The BC84 blade system fills the gap between high-performance disk and tape automation. Inserted between a tape subsystem and primary storage, the BC84 blade system works with your backup/recovery software, providing a cost-effective way to relieve pressure on traditional tape backup windows, improve the reliability of backup and accelerate recovery. Once backed up to the BladeStore blade system, data can be written to a tape library without affecting the performance of primary storage. With its storage area network (SAN) connectivity, the BC84 blade system can easily be shared during backup operations.

BLADESTORE BC84 BLADE SYSTEM

An easy fit

The BC84 blade system fits easily into your data center. It integrates seamlessly with all major Open Systems operating platforms. External hosts and applications see its storage blades as standard high-capacity Fibre Channel disk drives, so it can be integrated into existing Fibre Channel environments with no changes to existing software.

All BladeStore systems are supported by leading independent software vendors and solution providers, so with BladeStore you have easy access to popular applications for backup/recovery, storage management, data replication and fixed-content management.

Regardless of your application, the BladeStore BC84 blade system allows for all administrative tasks — configuration, reconfiguration, expansion, maintenance, tuning — to happen non-disruptively, with no system downtime and no interruption to system I/O. SANtricity Storage Manager software, brought to you through a strategic alliance of StorageTek and LSI Logic Storage Systems, allows remote administration from any location on the network, regardless of host or client platform. The BC84 blade system with SANtricity software suite provides a centralized, highly productive storage system — one that can share a common management interface across all B-Series™ (BladeStore) disk systems and D-Series disk systems from StorageTek.

The power of BladeStore

The BladeStore BC84 blade system is a powerful and reliable enterprise storage system. The compatible BladeStore disk and blade system family offers an array of options for pruning storage costs throughout your company. Only StorageTek — with an extensive selection of disk and tape systems, solutions, knowledge and technical assets — can offer true freedom of choice in enterprise storage. StorageTek has the resources to make sure your storage strategy aligns flawlessly with your storage environment and business needs, year after year.

Services

Baseline Implementation Services

StorageTek's Implementation Services helps you achieve the full benefits of your storage solution investments — right from the start. The Baseline Implementation Services offering for B-Series™ disk systems provides the services necessary to transfer knowledge to your organization. This offering includes the implementation of host connectivity to the disk systems, installation and configuration of disk management software and configuration of volumes. In addition, the service includes design validation, documentation and project management.

In addition to Baseline Implementation Services, StorageTek offers two tiers of higher-level consulting services for organizations whose implementation needs go beyond the Baseline level.

To learn more

To learn how the BladeStore BC84 blade system can cut costs and improve availability in your storage environment, contact your StorageTek representative or visit www.storagetek.com.

BladeStore BC84 blade system specifications

Performance

Maximum burst rate	110,000 I/O per sec
Maximum sustained rate	11,400 I/O per sec
Maximum sustained throughput	387 MB/sec
Cache size	1 GB (per controller)
	2 GB (total)

Capacity

Drive interfaces	4 Fibre Channel (2 Gb/sec)
Host interfaces	8 Fibre Channel (2 Gb/sec) direct-attached hosts
System capacity	
Capacity range	6.25 TB–150 TB
Compatible array	B250
Blade capacity	1.25 TB
Maximum number of blades per array	10
Maximum number of arrays	12
Maximum number of blades	120

Availability

Redundant components	Storage controllers, Fibre Channel drive loops, power supplies and cooling fans
Hot-swap components	Disk drives, storage controllers, power supplies, cooling fans and battery backup
High-availability features	Automatic drive failure detection and rebuild using global hot spare drives, cache battery backup
RAID levels supported	0, 1, 3, 5 and 1+0

Compatibility

Supported operating systems	Windows 2003, Windows 2000, Windows NT, Solaris, HP-UX, AIX, IRIX, Linux, Netware
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Management

Storage management software	SANtricity Storage Manager software
Standard features	Online storage management
	Dynamic volume expansion
	Dynamic capacity expansion
	Dynamic drive configuration and migration
Premium features	SANshare Storage Partitions (up to 64 partitions)
	SnapShot Copy software
	Internal Volume Copy
	Remote Volume Mirror

Mechanical

Control module	
Height	6.9 in (17.5 cm)
Depth	24.8 in (63.0 cm)
Width	19.0 in (48.3 cm)
Unit height	4u*
Weight	97.0 lb (44.1 kg)
Disk array	B250
Height	10.2 in (25.9 cm)
Depth	31.9 in (81.0 cm)
Width	18.9 in (48.0 cm)
Unit height	6u*
Weight	160 lb (72.7 kg)

Environmental

Temperature	+ 50° to + 104° F (+ 10° to + 40° C)
Heat dissipation	2,904 Btu/hr (based on 1.12 kVA or 851 W power consumption)

Power

International	230 V, 10 A, power connection as required
U.S. and Japan	110 V, 2 A or 220 V, 3 A per line cord, NEMA 5-15 (4 line cords required)

Regulatory compliance

Electromagnetic compliance	FCC (47 CFR 15, Subpart B) Class A
	CE (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3)
	VCCI (CISPR 22) Class A
	Canada (ICES-003) Class A
Safety	UL 1950
	CAN/CSA 22.2 No. 950

*Rack space is measured in height and expressed as a u. One u is 1.75 in (4.45 cm) in height.



ABOUT STORAGETEK®

Storage Technology Corporation (NYSE: STK) is a \$2 billion global company that enables businesses, through its information lifecycle management strategy, to align the cost of storage with the value of information. The company's innovative storage solutions manage the complexity and growth of information, lower costs, improve efficiency and protect investments. For more information, visit www.storagetek.com, or call 1.800.275.4785 or 01.303.673.2800.

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