

HP StorageWorks All-in-One SB600c Storage Blade

Data sheet



The HP StorageWorks All-in-One SB600c Storage Blade, along with the BladeSystem c-Class enclosure, allow your business to lower costs, increase efficiencies and respond to rapid data growth.



You chose to deploy an HP BladeSystem c-Class for your business and now you're looking at the storage options available for the enclosure. You need a solution that can provide shared storage for your c-Class application servers, enhanced file serving for end-user clients, and data protection software with advanced security features. These are the key functions of the HP StorageWorks All-in-One SB600c Storage Blade and together, they allow your business to lower costs, increase efficiencies, and respond to rapid data growth. The All-in-One Storage Blade is a radically simple, integrated and affordable network storage solution that enables businesses to easily manage, grow and protect their data without requiring them to become storage experts. It delivers a shared storage solution for HP BladeSystem c-Class, enabling storage consolidation across c-Class server blades in the enclosure and eliminating the cost of connecting external storage.

The easy-to-use, All-in-One Storage Manager (ASM) interface reduces the time, expense, and expertise required to keep up with rapidly growing applications like Microsoft® Exchange. Busy IT Managers do not have time to learn complex storage technologies; ASM reduces this barrier by handling all underlying storage tasks and presenting network storage in application-centric terms, giving administrators newfound levels of control. Data migration tools for Exchange 2003/2007 and SQL Server 2000/2005 include best practice recommendations, which allow any IT generalist to look like a storage expert. Tools for hosting user-defined applications enable flexible deployment in many different environments. Administrators can quickly and easily setup or expand data areas, migrate data from capacity constrained servers, implement disk and tape backup policies, and more.

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Key benefits

Shared storage solution for HP BladeSystem c-Class application servers—Managed through a single interface, the AiO SB600c Storage Blade provides shared application storage (iSCSI SAN), file serving (NAS), and data protection below the cost of separate products and installs directly inside a HP BladeSystem c-Class enclosure.

Efficient use of storage capacity easily accommodates growing applications—Sharing storage between servers is more efficient and costs less to manage over time when compared to adding extra drives to individual servers. Sharing storage means that you increase investments in additional capacity while enabling easier growth and shorter backup windows.

Best practice toolkit makes every IT Administrator look like a storage expert—The SB600c includes tools to easily migrate and manage data using best practice settings. For example, iSCSI storage for a Microsoft Exchange Storage Group can be expertly setup and migrated in fewer than ten mouse clicks, saving you time and reducing the potential for error.

Enhanced file serving for clients (NAS) to improve productivity and collaboration—The SB600c is tuned for faster file serving performance (beyond standard Windows® servers). Single Instance Storage (SIS) can improve capacity utilization by 30 percent or more by eliminating duplicate files within shared volumes. Full text search capabilities increase the speed of end-user search.

Comprehensive and integrated data protection to provide easy roll-back and disaster recovery—Provides an easy mechanism to manage disk based snapshots for easy rollback, integrated data protection software for offsite and archive, hot-plug disk drives (RAID), and hardware redundancy. Data can also be replicated to another system for enhanced disaster recovery.

Easy to deploy and manage so you can focus on your core business—The industry standard iSCSI interface provides the benefits of shared SAN storage on a traditional TCP/IP network. HP BladeSystem c-Class storage offers reliability and easy support. The All-in-One Storage Manager quickly walks administrators through all setup and management tasks.

Application-centric storage management simplifies operation and lowers costs—The All-in-One Storage Manager uses terms and functions that are familiar to application administrators. Includes easy iSCSI storage management for 32-bit and 64-bit Windows Server 2003 application servers. Data migration and optimization wizards for Microsoft Exchange 2003/2007 and SQL Server 2000/2005

Reduces the need for specialized product training—The intuitive All-in-One Storage Manager interface radically simplifies the growth, management and protection of data by hiding complexity and enabling storage to be a turnkey resource. Designed for IT generalists with no storage expertise, these systems can be setup and actively serving files in less than 30 minutes.

Award winning warranty, support and troubleshooting tools to provide worry-free operation—The SB600c can send alerts for various events such as an impending disk failure reducing the potential for downtime while HP's world class support organization and partner network enables you to quickly recover in the case of a problem.

HP Services

HP Services provide continuous care and support expertise with committed responses designed to meet your IT and business needs. To fully capitalize on your HP StorageWorks All-in-One Storage System capabilities requires a service partner who thoroughly understands your server technology and systems environment. HP Services, an industry leader in provision of multi-vendor support solutions, provides a range of services designed to meet the varying needs of your business.

HP has a number of HP All-in-One Storage Systems support offerings to help you speedily deploy and increase system uptime.

- Support Plus Service—Minimum recommended service support offerings, designed to verify that you have access to expert assistance whenever needed
- Support Plus 24 Service—Cost-effective combined hardware and software support service, designed to extend HP Services committed response as well as speeding resolution of more complex interoperability problems
- Proactive 24 Service—Highest HP Support service level, recommended to help increase IT performance and availability and to improve IT management—with comprehensive, consistent and integrated hardware and software support, both proactive and reactive

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.

All-in-One SB600c 1.16 TB SAS Storage Blade



Integrated application data storage (iSCSI SAN)	Yes
Integrated file serving (NAS)	Yes
Integrated Data Protection	Yes
Form factor	(2) HP BladeSystem half-height blades (server/storage)
Processor	Quad-core Intel® Xeon™ E5345 (2.33 GHz/1333 FSB); cache memory 2 x 4 MB L2
Memory standard/max	2/4 GB
Storage included	1.16 TB raw capacity (8 x 146 GB 10k rpm Small Form Factor SAS drives)
Storage expansion	N/A
Remote management	iLO2
Expansion slots	(2) additional I/O expansion slots via mezzanine card
Customer profile	Small and mid-sized businesses and branch offices
File serving support	CIFS, NFS, FTP, HTTP
Microsoft Exchange performance sizing	Can support up to 500 Exchange mailboxes under average workload
Application expansion support (iSCSI initiators)	Compliant with iSCSI industry standards for industry standard iSCSI initiators. Specific interoperability tests have been verified for SUSE Linux Enterprise Server 10, RedHat Enterprise Linux 5, and Qlogic 4050c.
Data protection features	Hardware RAID (0/1/5) Snapshots (448 per iSCSI/Application area. 64 for file shares. Assumes a common volume.) Integrated Tape Backup Software (HP Data Protector Express)
Replication features	File Share replication to second SB600c using Microsoft DFS-R iSCSI target replication to second SB600c via optional StorageWorks Storage Mirroring
Storage controller	E200i and P400
Network controller	Integrated single port NC373i Multifunction Gigabit Server Adapter
Operating system	Microsoft Windows Storage Server 2003 R2 (Standard Edition)
Optical drive	External DVD via USB
What's included	All-in-One SB600c Storage Blade; Documentation CD; Quick Start Poster; Safety warnings with translations; warranty card with translations; power cable (localized in AiO600 only); Quick Restore DVD. MUI (multilingual user interface) DVD.

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

Warranty and included services

The one-year warranty provides nine hrs/day, five days/week software advisory and remedial software telephone support.

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.

HP Factory Express

HP Factory Express is a portfolio of more than 50 flexible and robust pre-priced, customized and integrated factory configuration and deployment services—supporting HP products from the desktop to the data center with Microsoft Windows, Linux and HP-UX 11i.

HP Factory Express is designed to help you get more from your technology investment, extend your valuable resources and accelerate your business results. It provides predictable, trusted, and tested IT solutions designed to enhance your productivity. With Factory Express, you can customize hardware to your exact specifications at the HP factory—helping you plan and meet budget goals, cut costs, speed deployment, and free up internal resources. To learn more, visit www.hp.com/go/factory-express.

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 first-rate 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>.

HP 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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To learn more, visit www.hp.com/go/SB600c

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