

## Overview

**HP D2200sb Storage Blade**

Do you need a direct attached or shared storage solution within your BladeSystem enclosure?

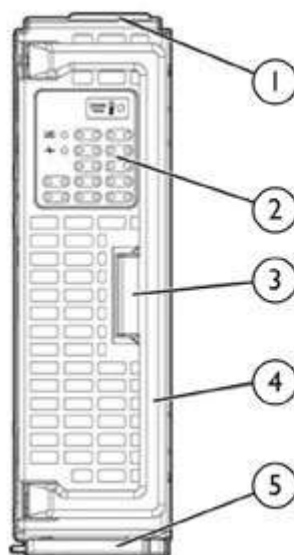
**Direct attached storage**

The D2200sb Storage Blade delivers direct attached storage for c-Class servers, with support for up to twelve hot plug small form factor (SFF) SAS hard disk drives or SAS/SATA SSDs or SATA Midline hard disk drives. The enclosure backplane provides a PCI Express connection to the adjacent c-Class server blade and enables high performance storage access without any additional cables. The D2200sb Storage Blade features an onboard Smart Array P410i controller with 1 GB flash-backed write cache (FBWC), for increased performance and data protection.

**Two ways to create shared storage with the D2200sb**

Use HP StoreVirtual VSA software to turn the D2200sb into an iSCSI SAN for use by all servers in the enclosure and any server on the network. HP StoreVirtual VSA software is installed in a virtual machine on a VMware ESX host server adjacent to the D2200sb. HP StoreVirtual VSA turns the D2200sb into a scalable and robust iSCSI SAN, featuring storage clustering for scalability, Network RAID for storage failover, thin provisioning, snapshots, remote replication, and cloning. Expand capacity within the same enclosure or to other BladeSystem enclosures by adding additional D2200sb Storage Blades and HP VSA licenses. A cost effective bundle of the D2200sb Storage Blade and a HP StoreVirtual VSA license makes purchasing convenient. If storage needs increase, add HP P4300 or P4500 systems externally and manage everything via a single pane of glass.

The HP 3840 Gateway Storage Blade is a flexible storage server solution for BladeSystem environments. Combine the HP 3840 Gateway Storage Blade with the D2200sb Storage Blade to enable file serving and iSCSI shared storage inside the BladeSystem enclosure.



1. Product information tag
2. LED panel
3. Hard drive drawer release latch

4. Hard drive drawer handle
5. Storage blade locking lever\*

\* Removing the storage blade from the enclosure removes power from the hard drives.

**What's New**

- Supports HP 12Gb SAS SSDs - High Endurance and Mainstream Endurance

## Product Highlights

## Key Features

## Features of the D2200sb include:

SFF (SAS/SAS SSD/SATA SSD) support - Delivering data transfer rates up to 6 Gb/s for SAS and SAS SSD and 3Gb/s for SATA SSD and SATA MDL HDD

- Support for up to twelve (12) hot plug SFF SAS or SAS/SATA/Solid State or SATA Midline hard disk drives in a half-height blade
- Internal Smart Array P410i with 1 GB flash-backed write cache
- Simple configuration and setup with HP's Array Configuration Utility (ACU - for G7 server blades) and HP Smart Storage Administrator (HP SSA - for Gen8 server blades)
- Easy to maintain and troubleshoot with industry standard management tools including HP System Insight Manager
- Use with HP StoreVirtual VSA software to create a robust shared storage environment inside BladeSystem enclosures
- Protected by HP Services and a worldwide network of HP Authorized Channel Partners. Three-year parts limited global warranty. Certain restrictions and exclusions apply.

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**Mix and Match of Hard Drive Types**

D2200sb supports mixing of different drive types (SAS/SATA, SSD/HDD) in a single enclosure. However, please note also that an array can be created across only one drive type.

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**Universal hot plug Hard Drive**

Form factor is for use across multiple HP ProLiant servers, disk enclosures and storage systems. With compatibility across many enterprise platforms, you are free to deploy and re-deploy these drives to quickly deliver increased storage capacity, migrate data between systems, and easily manage spare drives.

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**LED Indicators**

Front panel LEDs indicate drive activity and system health status.

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**Density**

The D2200sb fits into a half height bay on the BladeSystem c3000 and c7000 Enclosure.

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**Fault Tolerance**

Using the internal Smart Array P410i controller with 1 GB flash-backed write cache, the D2200sb can be configured for RAID levels 0, 1, 1 + 0, 5, and 6 (RAID ADG)

**NOTE:** RAID 6 and RAID 60 support requires purchase of Smart Array Advanced Pack (SAAP) license. Please visit [www.hp.com/go/SAAP](http://www.hp.com/go/SAAP)

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**Manageability**

All Smart Array products utilize a standard set of management and utility software. These tools minimize Total Cost of Ownership (TCO) by reducing training requirements and technical expertise necessary to install and maintain the HP server storage.

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**Fault Prevention**

The following features offer detection of possible failures before they occur, allowing preventive action to be taken:

- S.M.A.R.T.: Self Monitoring Analysis and Reporting Technology first developed at HP detects possible hard disk failure before it occurs, allowing replacement of the component before failure occurs.
- Drive Parameter Tracking monitors drive operational parameters, predicting failure and notifying the administrator.
- Dynamic Sector Repairing continually performs background surface scans on the hard disk drives during inactive periods and automatically remaps bad sectors, ensuring data integrity.

## Product Highlights

- Smart Array Cache Tracking monitors integrity of controller cache, allowing pre-failure preventative maintenance.
- Environment Tracking for External Storage System: Monitors fan speed and cabinet temperature of ProLiant Storage System and newer HP storage enclosures.

## D2200sb Blade server support matrix

Supported Servers	Server: Full Height or Half Height	No of D2200sb Storage blades Supported	Pass Thru Card Required	Mezz slot to support 1st Pass Thru Card	Mezz slot to support 2nd Pass Thru Card
<b>X86 server blades</b>					
BL280c G6	Half	1	No	n/a	n/a
BL460c G6	Half	1	No	n/a	n/a
BL460c G7	Half	1	No	n/a	n/a
BL460c Gen8	Half	1	No	n/a	n/a
WS460c Gen8	Half	1	No	n/a	n/a
BL490c G6	Half	1	No	n/a	n/a
BL490c G7	Half	1	No	n/a	n/a
BL465c G6	Half	1	No	n/a	n/a
BL465c G7	Half	1	No	n/a	n/a
BL495c G6	Half	1	No	n/a	n/a
BL620c G7	Full	2	Yes	3	2
BL685c G6	Full	2	No	n/a	n/a
BL685c G7	Full	2	No	n/a	n/a
BL680c G7	Full	Not supported	n/a	n/a	n/a
BL420c Gen8	Half	1	No	n/a	n/a
BL465c Gen8	Half	1	No	n/a	n/a
BL660c Gen8	Full	2	No	n/a	n/a
<b>Integrity server blades</b>					
BL860c i2	Full	1	No	n/a	n/a
BL860c	Full	1	Yes	3	n/a
BL870c	Full	Not supported	n/a	n/a	n/a
BL870ci2	Full	1	No	n/a	n/a
BL890ci2	Full	Not supported	n/a	n/a	n/a

## Operating Systems

Windows Server: 2003, 2008  
 Red Hat Enterprise: RHEL5, RHEL6  
 SLES (x86): SLES10, SLES11  
 VMware ESX: 3.5, 4.0, ESXi 5.0  
 HP-UX

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## Product Highlights

**NOTE:** For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: <http://www.hp.com/go/supportos>.

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### Software Suite

#### Systems Insight Manager

- Powerful server and server options/storage manager tool
- Monitors over 1,200 system wide parameters
- Configuration/Diagnostic Utilities

#### HP Array Configuration Utility (ACU - for G7 server blades) and HP Smart Storage Administrator (HP SSA - for Gen8 server blades)

- Powerful Web based configuration utility for all Smart Array controllers
- Provides a graphical view of HP drive array configurations
- Allows for management of multiple arrays over a secure internet connection from anywhere in the world
- Easy to use Wizards for configuration
- Runs offline for all supported Operating Systems and runs online for Windows and Linux. For online configuration of NetWare, use CPQONLIN

#### HP Option ROM Configuration for Arrays (ORCA)

- A simple method for managing logical drives during system power up by pressing F8 during POST
- Allows the ability to create arrays, logical drives, and assign an online spare drive
- Allows the ability to view and delete logical drives
- Allows the ability to select the boot controller or advanced array configurations use ACU/HP SSA

#### HP Array Diagnostic Utility (ADU)

- In depth diagnostic and reporting utility for all Smart Array controllers
- Runs offline for all supported Operating Systems, and runs online for Windows and Linux

#### HP Smart Array Advanced Pack (SAAP)

Group of firmware that provides additional and advanced feature functionality within the Smart Array Controllers that requires a license key for activation. These licensed features provides an easy key activation to enable features such as added RAID protection, drive erase and performance optimization and more. For more information visit the following URL: [www.hp.com/go/saap](http://www.hp.com/go/saap).

## Service and Support, HP Care Pack, and Warranty Information

### Warranty

Protected by HP Services and a worldwide network of HP Authorized Channel Partners. Three-year parts limited global warranty. Certain restrictions and exclusions apply.

Hard drive Pre-Failure Warranty: When used with any one of the Smart Array Family controllers and monitored under HP Systems Insight Manager (v4.20 or later), HP hard drives are supported by a Pre-Failure (replacement) Warranty. Hard drives have a one year warranty.

### HP Care Pack Services: Packaged server and storage services for increased uptime, productivity and ROI

When you buy HP server and storage products and solutions, it's also a good time to think about what levels of support you may need. Our portfolio of service options reduce deployment and management worries while helping you get the most out of your server and storage investments. We take a holistic approach to your environment, bridging servers, blades, storage, software and network infrastructures with our packaged HP Care Pack Services for servers and storage.

### Protect your business beyond warranty

When it comes to robustness and reliability, standard computing equipment warranties have matured along with technology. Good news that can also create problems stemming from depending on standard warranties designed to only protect against product defects and some downtime causes. Using a standard approach to warranty uplifts, such as HP Care Pack Services, helps reduce downtime risks and provides operational consistency for mission-critical and standard business computing.

### HP Care Pack Services: Upgrading or extending standard server and storage warranties cost effectively

HP recommends Proactive Care for your BladeSystem servers, enclosures and components to prevent problems with proactive advice and assistance, resolve issues and rapidly recover by connecting to HP's enhanced call experience and advanced technical expertise. The portfolio also provides a combination of integrated proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition with HP Proactive Select, you can acquire the specific proactive constancy and technical services. HP Proactive Select menu offers a broad set of service options that you can mix and match depending on your specific requirements. Proactive service options include offers for server, storage, network, SAN device, software, environment and education services.

HP server and storage lifecycle support services offers a full spectrum of customer care-from technology support to complex migrations to complete managed services. HP Factory Express provides customization, integration and deployment services for turnkey solutions. HP Education Services offer flexible, comprehensive training on to help your IT staff get the most out of your server and storage investments. HP Financial solutions extend innovative financing and cost-effective asset management programs-from purchase to equipment retirement.

Learn more: [www.hp.com/services/servers](http://www.hp.com/services/servers) and [www.hp.com/services/storage](http://www.hp.com/services/storage)

**NOTE:** Care Pack Services availability may vary by product and country.

HP Care Pack Services are sold by HP and HP Authorized Service Partners:

- Services for customers purchasing from HP or an enterprise reseller are quoted using HP order configuration tools.
- Customers purchasing from a commercial reseller can find HP Care Pack Services at <http://www.hp.com/go/lookuptool>

### Recommended HP Care Pack Services for optimal satisfaction with your HP product.

#### 3-Year HP Foundation Care 24x7

HP Foundation Care 24x7 connects you to HP 24 hours a day, seven days a week for assistance on resolving issues - hardware onsite response within four hours and software call back within two hours after opening your case. Three years' coverage recommended with HP Care Pack Service.

## Service and Support, HP Care Pack, and Warranty Information

- Improve uptime with responsive hardware and software services
- Enjoy consistent service coverage across geographically dispersed sites
- Update HP software at a predictable cost
- Increase customer satisfaction-with no interoperability gaps

<http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en>

**HP Install Storage Blade Service** For smooth startup and better business outcomes, HP Install Storage Blade Service- this service provides initial hardware installation of your HP Storage Blade (system configuration is not included). In today's new era of business technology- customers can trust the services professionals at HP to work collaboratively with them, putting our strategic and technical know-how to work across their entire infrastructure.

- Allows your IT resources to stay focused on their core tasks and priorities
- Reduces implementation time, impact and risk to your storage environment

<http://h71028.www7.hp.com/ERC/downloads/5981-9356EN.pdf>

**HP Proactive Select Service** HP Proactive Select Service improves your IT performance and manageability through the use of cost effective flexible services. HP provides technical expertise and best practices to accelerate ROI of your technology investment. Selectable proactive services span a wide range of technology and process services - a flexible way to purchase proactive services that fit your particular environment and situation.

HP Proactive Select Service is technology agnostic and purchased in addition to your choice of underlying reactive support.

- Access to a list of flexible and customizable proactive service activities
- Enhance customers' in-house IT team with complementary assistance from HP
- Improved time to solution
- Reduce business risk and project costs by accessing HP specialists
- Simplify IT operational procedures by leveraging HP best practices

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA2-3842ENN.pdf>

### Optional HP Care Pack Services that will enhance your HP product experience.

**HP BladeSystem c3000 Infrastructure (ICE + OS) Installation & Startup** For customers who need professionally integrated hardware and software BladeSystem implementation:

The HP Installation and Startup Service for HP BladeSystem c-Class Infrastructure provides for the installation of an HP BladeSystem c-Class enclosure, c-Class ProLiant and Integrity server blades, storage blades, SAN switch blades, Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and Infiniband, as well as deployment and basic configuration of HP Insight Control Environment for HP BladeSystem software.

Service benefits

- Efficient and effective HP BladeSystem c-Class infrastructure setup, server deployment, and management

## Service and Support, HP Care Pack, and Warranty Information

- Delivery of the service at a mutually scheduled time convenient to your organization
  - Expedited installation, provided all service prerequisites are met prior to commencement of service
- Verification prior to installation that all service prerequisites are met
- Reduced implementation time and cost
- More effective IT resource planning
- Increased data-center efficiency through reduction of manually intensive tasks
- Allows IT resources to stay focused on their core tasks and priorities
- Helps improve IT infrastructure uptime
- Automated diagnosis and remote support for hardware problems (via HP Service Essentials Remote Support Pack)

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA0-5964ENW>

### HP Entry Storage Data Migration Service for Windows

For customers who need to safely migrate Windows data within their TCP/IP networks with minimal impact to their operations:

You have a need to migrate data between Windows servers within your TCP/IP network. Or you have a need to migrate storage for your Windows servers. Or both. And you need to accomplish these migrations efficiently while minimizing risk at the same time.

HP Entry Storage Data Migration Service for Windows offers you a cost competitive and convenient way to accommodate data migration triggered by a need to refresh or consolidate storage, or to create different storage tiers. This service offers a migration cost in line with the costs of storage products in small and medium-sized storage environments. The service is delivered via a skilled HP service specialist with special consideration for data availability, integrity, and ongoing operational performance during the transfer process.

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA2-4734ENW.pdf>

### eSupport

HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

#### Support Portal

The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information

Access to certain features of the support portal requires an HP service agreement. To access the support portal, visit: <http://www.hp.com/support>

HP Insight Remote Support software delivers secure remote monitoring and support for your HP

## Service and Support, HP Care Pack, and Warranty Information

Servers and Storage, 24 X 7, so you can spend less time solving problems and more time focused on your business. You can have your systems remotely monitored for hardware failure using secure technology that's been proven at thousands of companies around the world. In many cases, you can avoid problems before they occur.

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### **Customer Technical Training**

#### **HP Education Services**

In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, HP offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics-while spending less time away from business-critical activities.

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### **HP Services Awards**

HP Technology Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction.

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### **Additional Services Information**

To learn more on HP ProLiant servers, HP BladeSystem servers and HP storage products, please contact your HP sales representative or HP Authorized Channel Partner. Or visit [www.hp.com/services/proliant](http://www.hp.com/services/proliant) or [www.hp.com/services/bladesystem](http://www.hp.com/services/bladesystem) or <http://www.hp.com/services/storage>



# QuickSpecs

## HP D2200sb Storage Blade

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Configuration Information - Factory Integrated Models (North America Only)

### Step 1: D2200sb Storage Blade Configuration

**Models**

HP D2200sb PCIe Storage Blade

AP880A

## Options

<b>c-Class Mezzanines</b>	HP BL c-Class PCI Express Mezzanine Pass Thru Option Kit <b>NOTE:</b> Required to support the HP D2200sb Storage Blade with HP c-Class BladeSystem full-height server blades	431643-B21
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<b>HP Hard Drives</b>	<b>SAS Hot Plug SFF Enterprise (ENT) Drives</b>	
	HP 146GB 6G SAS 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	512547-B21
	HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	507127-B21
	HP 300GB 6G SAS 15K rpm SFF (2.5-inch) Hot Plug Enterprise 3yr Warranty Hard Drive	627117-B21
	HP 450GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	581284-B21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	581286-B21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	619291-B21
	HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	718160-B21
	<b>NOTE:</b> SAS drives have a 3 year warranty. <b>NOTE:</b> Please see the for Technical Specifications and additional information: <a href="http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html">http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html</a> (Worldwide) <b>NOTE:</b> Go to the HP Hard Drive Compatibility table for complete drive compatibility information ( <a href="http://www.hp.com/products/harddiskdrives">http://www.hp.com/products/harddiskdrives</a> ). Using hard drives in unsupported configurations will result in voiding the warranty and could result in damage to the drive and/or loss of data.	
	<b>6G SAS Hot Plug Enterprise Performance Solid State Drives</b>	
	HP 400GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive	632494-B21
	HP 200GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive	632492-B21
	<b>NOTE:</b> SAS SSD drives have a 3 year warranty.	
	<b>6G SAS Hot Plug Mainstream Endurance Solid State Drives</b>	
	HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream 3yr Warranty Solid State Drive	690821-B21
	HP 200GB 6G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Warranty Solid State Drive	690819-B21
	<b>NOTE:</b> SAS SSD drives have a 3 year warranty.	
	<b>12G SAS High Endurance Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives</b>	

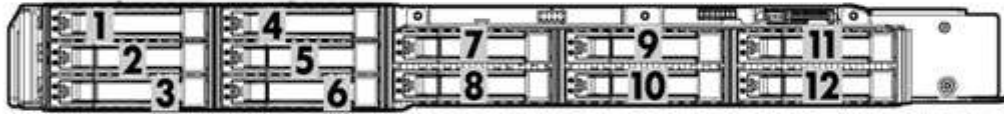
## Options

HP 800GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive	741157-B21
HP 400GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive	741153-B21
HP 200GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive	741148-B21
<b>12G SAS Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives</b>	
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	741144-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	741140-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	741136-B21
<b>SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives</b>	
HP 1TB 3G SATA 7.2K rpm SFF (2.5-inch) Hot Plug Midline 1yr Warranty Hard Drive	625609-B21
HP 500GB 3G SATA 7.2K rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive	507750-B21

**NOTE:** SATA MDL HDD drives have a 1 year warranty.

**NOTE:** In order to support SATA MDL HDD/ SATA SSDs in a D2200sb, the Smart Array Firmware has to be upgraded to version 5.06.

## Storage



Top view of the D2200sb, with the drive drawer opened

### Hard Drives

#### SAS Hot Plug SFF Enterprise (ENT) Drives

Quantity Supported	Position Supported	Controller
12	1-12	Smart Array P410i Controller

## Technical Specifications

<b>HP D2200sb Storage Blade</b>	<b>Dimensions (HxWxD)</b>	5.316cm x 18.070cm x 51.565cm (2.093" x 7.114" x 20.301")
	<b>Weight (unloaded)</b>	3.9KG (8.58 lbs)
	<b>Weight (loaded)</b>	7.19KG (15.8 lbs)
	<b>Protocol Support</b>	6Gb/s SAS
	<b>O/S Support</b>	Defined by specific HP array controller or SAS/ adapter used; please refer to the QuickSpecs and/or User Guide of the specific array controller or adapter
	<b>LED Indicators</b>	UID System Health LED
	<b>Drive LED Indicators (on drive trays)</b>	Drive LED (top) - On-line/Activity Drive Failure LED (bottom) - Drive Fault/Locate
	<b>Relative Humidity (non-condensing)</b>	Operating 20% to 80% Shipping 5% to 95%
	<b>Temperature Range</b>	Operating 50° to 95° F (10° to 35° C) Shipping -22° to 140° F (-30° to 60° C)
		<b>NOTE:</b> To maintain proper cooling and airflow, a drive blank or drive must occupy all bays during operation.
	<b>Power Consumption</b>	12V/11A
<b>Smart Array P410i Controller</b>	<b>Disk Drive and Enclosure Interface</b>	6G SAS (Serial Attached SCSI)
	<b>SAS Connectors</b>	2 internal (SFF8484) x4 wide port connectors
	<b>Cache Memory Speed</b>	DDR2-533MHz with provides up to 4.2 GB/s maximum bandwidth.
	<b>SAS Speed</b>	x8 6G SAS
	<b>Cache Memory</b>	1 GB flash-backed write cache; ECC protection, battery-backed, and transportable
	<b>Logical Drives Supported</b>	Up to 32 logical drives
	<b>Maximum Logical Drive Capacity</b>	10.8TB SAS or 12TB SATA
	<b>Host Memory Addressing</b>	64-bit, supporting greater than 4GB server memory space
	<b>RAID Support</b>	RAID 6 with ADG (Advanced Data Guarding) RAID 5 (Distributed Data Guarding) RAID 1+0 (Striping & Mirroring) RAID 0 (Striping)
	<b>Upgradeable Firmware</b>	Upgradeable Firmware with recovery ROM feature
<b>Environment-friendly Products and Approach</b>	<b>End-of-life Management and Recycling</b>	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in

## Technical Specifications

a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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# QuickSpecs

## HP D2200sb Storage Blade

### Summary of Changes

Date	Version History	Action	Description of Change:
03-Apr-2015	From Version 18 to 19	Added	Added the Gen 8 portion on the product highlights sections
05-Dec-2014	From Version 17 to 18	Changed	Changes on the Product Highlights Section; Obsolete SKUs removed.
09-May-2014	From Version 16 to 17	Changed	HP Care Pack Services and Recommended Services were revised.
11-Apr-2014	From Version 15 to 16	Added	HP 12Gb SAS SSDs High Endurance and Mainstream Endurance were added.
20-Dec-2013	From Version 14 to 15	Changed	Updated the following: Direct Attached Storage - overview; Two ways to create shared storage with the D2200sb; Key Features; Configuration Information - Step 1; Options - HP Hard Drives - added 1.2TB 6G SAS SFF - 718160-B21
26-Apr-2013	From Version 13 to 14	Changed	Changes were made to the Product Highlights Section- X86 Server blades section  Updated the Options Section- Changes made to part numbers under HP Hard Drives
07-Dec-2012	From Version 12 to 13	Changed	Changes were made in the D2200sb Blade server support matrix section of Product Highlights only.
28-Sep-2012	From Version 11 to 12	Changed	Changes were made in Overview, Products, Service and Support, HP Care Pack and Warranty Information, and in Configuration Information sections.
16-Mar-2012	From Version 10 to 11	Changed	Updated the following: What's New; Product Highlights - server support matrix; Technical Specifications - P410i Cache Memory
02-Mar-2012	From Version 9 to 10	Changed	Updated the following: What's New updated to reflect new 300GB 15K SAS HDD and BL860c support; Product Highlights - Support matrix updated to show BL860c support; Options - Hard Drives updated to reflect new 300GB drive
28-Oct-2011	From Version 8 to 9	Changed	D2200sb Blade server support matrix chart was completely revised in Product Highlights  Step 1 was revised in Configuration Information - Factory Integrated Models  ESXi 5.0 was added to Operating Systems  SATA Hot Plug Enterprise Mainstream Solid State Drives were added to Hard Drives
30-Aug-2011	From Version 7 to 8	Changed	Updated the following: Overview; What's new; Key Features; Storage - HP Hard Drives.
22-Jul-2011	From Version 6 to 7	Changed	Updated the following: Key Features and Options - HP Hard Drives
08-Jul-2011	From Version 5 to 6	Changed	Updated the following: Overview; What's new - added 900GB SAS HDD and SSDs; Key Features; Storage - HP Hard Drives;

# QuickSpecs

## HP D2200sb Storage Blade

### Summary of Changes

			Technical Specifications - Maximum Logical Drive Capacity;
09-Jun-2011	From Version 4 to 5	Removed	Mentions of StorageWorks were removed.
01-Apr-2011	From Version 3 to 4	Changed	Support for Hard Drives in SAS hot Plug SFF Enterprise (ENT) Drives was changed from 6 to 12 Drives  Power Consumption was added to HP StorageWorks D2200sb Storage Blade Technical Specifications
18-Feb-2011	From Version 2 to 3	Changed	Corrected a spelling error.
11-Feb-2011	From Version 1 to 2	Added	D2200sb Blade server support matrix was added to Product Highlights  Note was added to HP StorageWorks D2200sb Storage Blade Bundle with SAAP License in Models

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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.