Overview

HP StoreEasy 1000 Storage is a new breed of efficient, secure, and highly available storage to simply address the file and application storage challenges of small to medium business, branch office, and workgroup environments. StoreEasy 1000 Storage, built on industry leading ProLiant DNA and Microsoft Windows Storage Server, integrates easily into new and existing environments with a straightforward, consistent management experience for IT generalists.

What's New

- All StoreEasy 1000 Storage products now run the Windows Storage Server 2012, Standard Edition Operating System
- All StoreEasy 1000 Storage products now built on HP ProLiant Gen 8 servers

Models

HP StoreEasy 1430 Storage

HP StoreEasy 1430 Storage products are storage solutions that deliver multi-protocol file serving and application storage in a compact and affordable 1U rack-mount form factor. They're easy to install and manage, making them perfect for a small workgroup, small business or remote office. The StoreEasy 1430 is built on a HP ProLiant DL320e Gen 8 server.

HP StoreEasy 1430 Storage

B7D88A

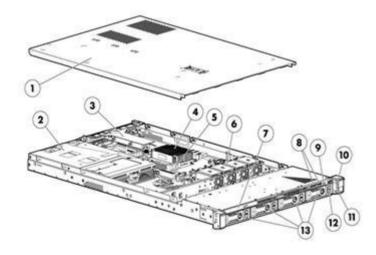
(no drives pre-configured - at least four drives of the same type/capacity, 450GB or greater, must be ordered for pre-installation of OS in the factory. The OS is not a field installable option.)

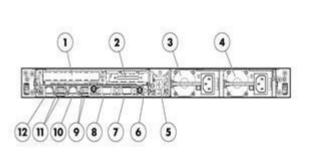
HP StoreEasy 1430 8TB SATA Storage (4 x 2TB SATA LFF HDDs)

B7D89A

HP StoreEasy 1430 12TB SATA Storage (4 x 3TB SATA LFF HDDs)

B7D90A





Front View:

- Access Panel
- 2. Power Supply
- 3. PCI Riser Cage
- Processor
- 5. Four DIMM slots
- 6. Fans
- 7. Optical drive (optional)
- 8. 2 USB Connectors
- 9. UID LED button
- 10. Health LED
- 11. NIC status LED

Rear View:

- Expansion slot 2, PCle x16
- 2. Expansion slot 1, PCle x8 (P222)
- 3. Power Supply 2
- 4. Power Supply 1
- 5. iLO connector
- 6. UID LED button
- 7. Serial Connector
- 8. Video Connector
- 9. USB Connectors
- NIC Connector 1
- 11. USB Connectors



Overview

- 12. Power On/Standby button and LED
- 13. 4 LFF Hot plug SATA/SAS HDD Cage

12. NIC Connector 2

HP StoreEasy 1530 Storage

HP StoreEasy 1530 Storage products are storage solutions that deliver multi-protocol file serving and application storage in a compact and affordable tower form factor package. They're easy to install and manage, making them perfect for a small workgroup, small business or remote office. The StoreEasy 1530 is built on an HP ProLiant ML310e Gen 8 Server.

NOTE: A country specific power cord option must be ordered with the StoreEasy 1530. See power cord options section.

HP StoreEasy 1530 Storage

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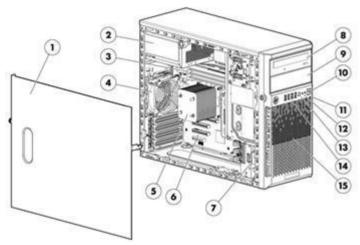
(no drives pre-configured - at least four drives of the same type and capacity, 450GB or greater, must be ordered for pre-installation of OS in the factory. The OS is not a field installable option.)

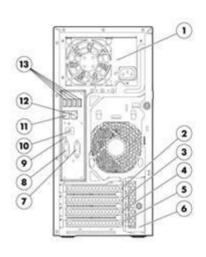
HP StoreEasy 1530 8TB SATA Storage (4 x 2TB SATA LFF HDDs)

B7D92A

HP StoreEasy 1530 12TB SATA Storage (4 x 3TB SATA LFF HDDs)

B7D93A





Front View:

- 1. Quick removal access panel
- 2. Power Supply
- Four DIMM slots
- System fan
- 5. Processor Heatsink
- 6. Four (4) PCIe expansion slots
- 7. PCI Far
- 8. Half Height SATA DVD-ROM or DVD RW Optical Drive 8. (optional)
- 9. Media Drive Blank
- 10. Power Button
- 11. NIC Activity LED
- 12. System Health
- 13. UID LED button
- 14. Four (4) USB connectors
- 15. Four (4) LFF or Eight (8) SFF SAS/SATA HDD cage

Rear View

- 1. Power supply
- 2. Slot 4 PClex16
- 3. Slot 3 PClex8
- 4. Slot 2 PClex8 (P222)
- Slot 1 PClex4
- 6. PCIe card bracket
- 7. Serial Connector
- Video Connector
- 9. UID LED Button
- 10. iLO connector
- 11. NIC Connector 1 (shared management)
- 12. NIC Connector 2
- 13. Four (4) USB Connectors



Overview

HP StoreEasy 1630 Storage

HP StoreEasy 1630 Storage products deliver high capacity and drives down your cost per GB. Quad-Core processing, up to 42TB internal storage capacity, and ready for external expandability enhance this ultra-dense 2U shared storage solution for small, medium, or large IT environments. The StoreEasy 1630 is built on a HP ProLiant DL380e Gen 8 Server

HP StoreEasy 1630 Storage

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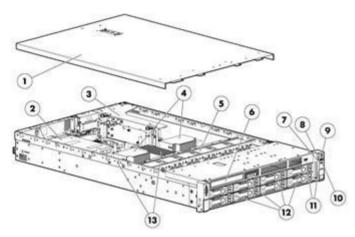
(14 open LFF HDD slots, 12 in front and 2 in rear, a minimum of 8 LFF drives of the same type and capacity must be ordered with system for factory installation)

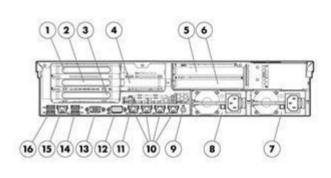
HP StoreEasy 1630 28TB SAS Storage (14 x 2TB SAS LFF HDDs)

B7D95A

HP StoreEasy 1630 42TB SAS Storage (14 x 3TB SAS LFF HDDs)

B7D96A





Front View:

- 1. Quick removal access panel
- Redundant Hot Plug Power Supplies(upgradeable option)
- 3. Removable Riser Cage assembly
- 4. Up to 2 Intel E5-2400 Series Processors
- Removable Hot Plug Fans modules, (optional, full N+1 redundancy)
- 6. N/A
- 7. Health LED
- 8. Network activity LED
- 9. Power On /Standby button and system power LED button
- 10. Unit ID LED
- 11. USB connectors
- 12 LFF Hot plug Hard Drive bays
- 13. 12 DIMM slots

Rear View

- 1. Slot1 PCle3 x8 (4, 1)
- 2. Slot2 PCle3 x16 (8, 4, 1) (P822)
- 3. Slot3 PCle3 x8 (8, 4, 1)
- 4. Slot4 PCle2 x8 (4, 1)
- 5. Rear Drive Bay
- 6. Rear Drive Bay
- 7. Power Supply bay1
- 8. Power Supply bay 2
- 9. Unit ID LED/Button
- 10. HP Ethernet 1Gb 4-port 366i Adapter (4 x 1GbE)
- 11. Service tool
- 12. Serial connector
- 13. Video connector
- 14. USB connectors (2)
- 15. iLO connector
- 16. USB connectors (2)



Overview

HP StoreEasy 1830 Storage

HP StoreEasy 1830 Storage products deliver Enterprise-class performance, expandability, and flexibility. Up to two quad-core processors,2 PCIe slots (5 with 2nd processor), and with the included Smart Array P822 Storage Controller make it the file serving and application storage choice for medium business or datacenter class IT environments. The StoreEasy 1830 is built on a HP ProLiant DL380 Gen 8 server.

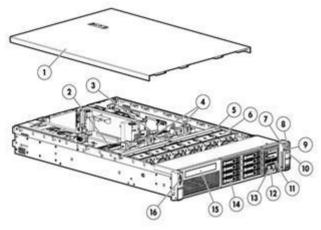
HP StoreEasy 1830 Storage (2x450GB SAS SFF HDDs for pre-installed OS and 23 open SFF slots)

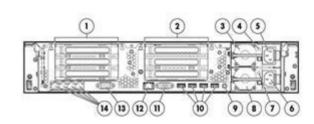
HP StoreEasy 1830 12.6TB SAS Storage (2x450GB SAS SFF HDDs for pre-installed OS, 14x900GB

B7D97A

SAS SFF HDDs and 9 open SFF slots)

HP StoreEasy 1830 20.7TB SAS Storage (2x450GB SAS SFF HDDs for pre-installed OS, 23x900GB B7D99A SAS SFF HDDs)





Front View:

- 1. Quick removal access panel
- 2. Second Intel Processor
- 3. First Intel Processor
- 4. 24 DIMM slots
- Air Baffle
- 6. Hot-plug fans, full N+1 redundancy
- 7. Health LED
- 8. Power On /Standby button and system power LED button
- 9. USB connector
- 10. Unit ID LED
- 11. Systems Insight Display
- 12. Asset Tag
- 13. USB connector
- 14. 25 SFF Hot plug Drive Bays
- Optional Slim Optical Bay (SATA DVD-RW /ROM Optical Drive)
- 16. Video connector

Rear View

- 1. PCle 3.0 Slots 1, 2, 3-PCle 2.0 top to bottom
- 2. PCIe 3.0 Slots 4-6 top to bottom (required 2nd processor)
- 3. Power supply 1
- 4. Power supply 1 Power LED
- 5. Power supply 1 Power connection (with Intelligent PDU communication)
- 6. Power supply 2 Power connection (with Intelligent PDU communication)
- 7. Power supply 2 Power LED
- 8. Power supply 2
- 9. Unit ID LED/Button
- 10. USB connectors (4)
- 11. Video connector
- 12. iLO connector
- 13. Serial connector
- 14. FlexibleLOM ports (Shown: 4 ports 1Gb each /Optional: 2 ports 10Gb each)



Features and Benefits

Efficiently Enhance Saving Money

The HP StoreEasy 1000 Storage systems support large numbers of users concurrently accessing Your Resources While their files thanks to a high performance file serving controller and a range of drive media including SSDs.

> Increase capacity use with non-intrusive data deduplication that provides an average 50-60% in space savings.

Leverage advanced data management to automatically enhance resource use, enable compliance with data retention policies, and apply added protection to sensitive files.

Consolidate multiple workloads and roles in a single platform with included support for a broad range of file access protocols, Microsoft Hyper-V and SQL Server application storage, iSCSI block access, and support for services such as print, DNS, and DHCP.

Reduce branch office WAN usage by automatically caching frequently accessed corporate data center files with Hosted BranchCache.

On-board Data Protection

Security is Built-in with Install and run endpoint protection such as antivirus on the system itself - eliminating the cost and complexity of connecting an external endpoint protection server.

> Prevent against data loss with Volume Shadow Copy Service online snapshots and support for agent based backup software.

Protect data while at rest with file system encryption and BitLocker Drive Encryption, and while it i being transferred with SMB 3.0 encryption and signing.

Highly Available, Reliable and Robust **Platform**

Increase uptime with such standard features as multi-node clustering, continuous health monitoring with HP Active Health System, mirrored operating system disks, hot plug redundant fans and power, advanced memory protection, and a 3-year onsite warranty.

Confidently deploy large volumes leveraging improved file system self-healing, file system online analysis, and greatly reduced downtime for corruption correction.



Standard Features

Operating System

Microsoft Windows Storage Server 2012, Standard Edition

- Windows Storage Server 2012 (WSS2012) includes a robust range of file serving and storage capabilities. It addresses heterogeneous environments and it enables more efficient storage utilization. WSS2012 delivers a similar level of performance and reliability as more expensive storage solutions and it offers support for both file (SMB and NFS) and block (iSCSI) protocols, allows for a flexible mix of configurations and includes advanced data management tools. WSS2012 leverages your Windows Server management skill sets and tools including Active Directory, PowerShell and System Center.
- SMB 3.0: Leverage high performance continually available file shares to deliver feature-rich storage for business-critical applications and virtual servers using advanced new functionality.
- New VHDX Standard: Deploy larger capacity virtual storage that can grow to 16 terabytes, is more resilient against corruption, and provides more efficient usage of new 4 KB sector hard disks with the new VHDX virtual storage standard.
- Live Storage Migration: Maintain maximized service-level availability even while moving virtual machine storage between host servers independent of the actual virtual machine.
- SMB Multi-channel: Enable aggregation of network bandwidth and network fault tolerance when multiple paths are available between SMB clients and file servers.
- NFS v4.1: For Windows Storage Server 2012, Server for NFS has been updated to support
 continuous availability. These improvements make it possible to reliably store and run
 VMware ESX on a virtual machine that is running Windows Server 2012 by using the NFS
 protocol to share files. Additional improvements in failover clustering take advantage of
 better resilience to hardware and software outages that may afflict individual cluster nodes.
 At the same time, failover clustering isolates VMware ESX hypervisor hosts from intermittent
 glitches during failovers.
- iSCSI: Some applications require block storage. iSCSI Target Server can provide these
 applications with continuously available block storage. Since the storage is remotely
 accessible it can also consolidate block storage for central or branch office locations. By
 using boot-capable NICs or a software loader, you can deploy hundreds of diskless servers.
 This is ideal for large deployments of identical operating system images, such as a Hyper-V
 server farm or High Performance Computing (HPC) clusters.
- Data Deduplication: Data deduplication enables Windows Storage Server 2012 to store more data in less physical space and achieve storage efficiency that is significantly higher than was possible in previous releases of Windows Storage Server that used Single Instance Storage (SIS) or NTFS file system compression. Data deduplication uses variable size chunking and compression, which deliver optimization ratios of 2:1 for general file servers and up to 20:1 for virtualization data. Evaluate your deduplication savings with the included deduplication evaluation tool When the deduplication feature is installed, the Deduplication Evaluation Tool (DDPEval.exe) is automatically installed to the \Windows\System32\\directory. This tool can be copied from any Windows Server 2012 installation to systems running Windows Server 2012, Windows Server 2008 R2, or Windows 7. You can use it to determine the expected savings that you would get if deduplication is enabled on a particular volume. DDPEval.exe supports local drives, and it supports evaluating mapped or unmapped remote shares.
- Volume Shadow Copy Service Creates point-in-time copies (snapshots) of files and folders at predetermined time intervals, that can then be accessed from client computers.
- VSS for Remote SMB File Shares: Leverage proven Volume Shadow Copy Service (VSS) to offload snapshot and backup operations to remote storage from VSS hardware providers within Hyper-V virtual machines.
- Hosted Branch Cache: Using client/server architecture, Windows 7/8 client computers can
 cache content on the local network via the Hosted Cache running on the StoreEasy 1000
 Storage. Other clients who need the same content retrieve it directly from the Hosted
 Cache
- DFS Namespaces: Enables you to group shared folders that are located on different servers
 into one or more logically structured namespaces. Each namespace appears to users as a
 single shared folder with a series of subfolders. However, the underlying structure of the



Standard Features

- namespace can consist of numerous file shares that are located on different servers and in multiple sites.
- Distributed File System Replication (DFS-R): Enables you to efficiently replicate folders
 (including those referred to by a DFS namespace path) across multiple servers and sites.
 DFS Replication uses a compression algorithm known as remote differential compression
 (RDC). RDC detects changes to the data in a file, and it enables DFS Replication to
 replicate only the changed file blocks instead of the entire file.
- File Server Resource Manager (FSRM): File Server Resource Manager is a set of features
 that allow you to manage and classify data that is stored on file servers. File Server
 Resource Manager includes the following features:
 - Storage reports: Storage reports are used to help you identify trends in disk usage and how your data is classified. You can also monitor a selected group of users for attempts to save unauthorized files.
 - O File Classification Infrastructure: File Classification Infrastructure provides insight into your data by automating classification processes so that you can manage your data more effectively. You can classify files and apply policies based on this classification. Example policies include dynamic access control for restricting access to files, file encryption, and file expiration. Files can be classified automatically by using file classification rules or manually by modifying the properties of a selected file or folder.
 - O File Management Tasks: File Management Tasks enables you to apply a conditional policy or action to files based on their classification. The conditions of a file management task include the file location, the classification properties, the date the file was created, the last modified date of the file, or the last time the file was accessed. The actions that a file management task can take include the ability to expire files, encrypt files, or run a custom command.
 - Quota management: Quotas allow you to limit the space that is allowed for a volume or folder, and they can be automatically applied to new folders that are created on a volume. You can also define quota templates that can be applied to new volumes or folders.
 - O File screening management: File screens help you control the types of files that user can store on a file server. You can limit the extension that can be stored on your shared files. For example, you can create a file screen that does not allow files with an MP3 extension to be stored in personal shared folders on a file server.
- Initial Configuration Tasks Wizard: Simplifies and accelerates new device deployment by presenting basic system settings on your first boot.
- Server Manager
- Print Management Console: Manage multiple printers (license for unlimited printer support)
 from a single console, whether locally or over the WAN
- Unlimited Client Access Licenses (CALs) included

More information on Windows Storage Server 2012 Standard Edition can be found here: http://www.microsoft.com/en-us/server-cloud/windows-storage-server/default.aspx

Processor / Cache Memory	StoreEasy 1430	StoreEasy 1530	StoreEasy 1630	StoreEasy 1830
	Intel® Core® i3-3220T (2.8GHz/2- core/3MB/45W, HT) Processor	Intel® Core™ i3-3220 (3.3GHz/2- core/3MB/65W, HT) Processor	Intel® Xeon® E5-2407 (2.2GHz/4- core/10MB/6.4GT-s QPI/80W, DDR3-1066, HT)	Intel® Xeon® E5-2609 (2.4GHz/4- core/10MB/6.4GT-s QPI/80W)



Standard Features

Memory	Type Unbuffered (UDIMM) or Registered (RDIMM) depending on model							
	Maximum (by O/S license)	2TB						
		StoreEasy 1430	Store1530	StoreEasy 1630	StoreEasy 1830			
	Standard	8GB (2 x 4GB)	GB (2x 4GB)	12GB (3 x 4GB)	16GB (4 x GB)			
	DIMM Sockets	4	4	12	24			
Network		StoreEasy 1430	StoreEasy 1530	StoreEasy 1630	StoreEasy 1830			
Controller	NIC Ports	2	2	4	4			
	Controller	HP Ethernet 1Gb 2-port 330i Adapter	HP Ethernet 1Gb 2-port 330i Adapter	HP Ethernet 1Gb 4-port 366i Adapter	HP Ethernet 1Gb 4-port 331FLR Adapter			

Expansion Slots		Expansion Slots	Technology	Bus Width**	Connector Width	Form Factor	Notes
	StoreEasy 1430	1	PCIe 2.0	x4	x8	Low Profile Slot	SA P222 installed
		2	PCle 3.0	x16	X16	Half length,	

^{*}Indicates the number of physical electrical lanes running to the connector.

	Expansion Slots #	Technology	Bus Width**	Connector Width	Form Factor	Notes
StoreEasy 1530	1	PCIe 2.0	X1	X4	Half Length/Full Height	
	2	PCIe 2.0	X4	x8	Full Length/Full Height	SA P222 installed
	3	PCle 3.0	X8	X8	Full Length/Full Height	
	4	PCle 3.0	X8	X16	Full Length/Full Height	

*Indicates the number of physical electrical lanes running to the connector. **NOTE:** No additional Smart Array Controllers can be added to the StoreEasy 1530

			,			,
	Expansion Slots #	Technology	Bus Width**	Connector Width	Form Factor	Notes
StoreEasy 1630	1	PCIe Gen3.0	X4	X8	Full Length, Full Height Slot	
	2	PCIe Gen3.0	X8	X16	Half Length, Full Height Slot	SA P822 installed



Standard Features

3	PCIe Gen3.0	X8	X8	Half Length, Full Height Slot
4	PCIe Gen2.0	X4	X8	Low Profile

^{**} Indicates the number of physical electrical lanes running to the connector.

StoreEasy 1830

Primary Riser	Expansion Slots #	Technology	Bus Width**	Connector Width	Bus Number*	Form Factor	Notes
(Standard)	1	PCle 3.0	X16	X16	7	Full Length, Full Height Slot	Proc 1
	2	PCle 3.0	X8	X8	10	Half Length, Full Height Slot	SA P822 installed
	3	PCIe 2.0	X4	X8	13	Half Length, Full Height Slot	

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: When populating the second optional riser slot, the second processor must be installed. **NOTE:** All slots support up to 150w PCle cards, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

StoreEasy 1830

PCle Riser (Optional 3-	Expansion Slots #	Technology	Bus Width**	Connector Width	Bus Number*	Form Factor	Notes
slot)	4	PCle 3.0	X16	X16	16	Full Length, Full Height Slot	Proc 2
	5	PCle 3.0	X8	X8	20	Half Length, Full Height Slot	Proc 2
	6	PCIe 3.0	X4	X8	23	Half Length, Full Height Slot	Proc 2

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: When populating the second optional riser slot, the second processor must be installed. **NOTE:** All slots support up to 150w PCle cards, but an additional Power Cord Option is required (669777-B21). See Option Section below for offering

StoreEasy 1830

PCle Riser (Optional 2-	Expansion Slots #	Technology	Bus Width**	Connector Width	Bus Number*	Form Factor	Notes
slot)	4	PCle 3.0	X16	X16	16	Full Length, Full Height	Proc 2
	5	PCIe 3.0	X16	X8	16	Half Length, Full Height	Proc 2



^{**} Indicates the number of physical electrical lanes running to the connector.

^{**} Indicates the number of physical electrical lanes running to the connector.

Standard Features

- * Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number
- ** Indicates the number of physical electrical lanes running to the connector.

Storage Controller	Controller(s)	StoreEasy 1430 HP Smart Array P222/512 FBWC 6Gb 1-port Int/1- port Ext SAS Controller	StoreEasy 1530 HP Smart Array P222/512 FBWC 6Gb 1-port Int/1- port Ext SAS Controller	2-ports Int/4-ports	StoreEasy 1830 HP Smart Array P822/2GB FBWC 2-ports Int/4-ports Ext SAS Controller 0/1/1+0/5/5+0 6/6+0
	RAID	0/1/1+0/5/5+0 6/6+0	0/1/1+0/5/5+0 6/6+0	0/1/1+0/5/5+0 6/6+0	
	Internal SAS connectors	1	1	2	2
	External SAS connectors	1	1	4	4

NOTE: RAID 6, 6+0 can be enabled with 512 MB FBWC and Smart Array Advanced Pack 2.0 License key included with all StoreEasy models

Storage	Hard Drives				
Otorage	Internal	StoreEasy 1430 (4) Four 3.5" (Large Form Factor) hot-plug bays	StoreEasy 1530 (4) Four 3.5"(Large Form Factor) hot- plug bays	StoreEasy 1630 (12) Twelve 3.5" (Large Form Factor) hot-plug bays in front and (2) two 3.5" (Large Form Factor) hot- plugs bays in rear	StoreEasy 1830 (25) 2.5" (Small Form Factor) hot- plug bays
	External	Support for D2000,	Support for D2000,		Support for D2000, MDS600
Maximum Storage Capacity (raw)	Internal SATA Internal SAS Internal plus External	StoreEasy 1430 12TB 12TB	StoreEasy 1530 12TB 12TB	StoreEasy 1630 42TB 42TB	StoreEasy 1830 23TB 23TB
Power Supply		StoreEasy 1430 460 Watts, Hot Plug (optional redundant)	StoreEasy 1530 460 Watts, Hot Plug (optional redundant)	StoreEasy 1630 750 Watts, Hot Plug Redundant	StoreEasy 1830 750 Watts, Hot Plug Redundant



Standard Features

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StoreEasy 1430 StoreEasy 1530 StoreEasy 1630 StoreEasy 1830 One high voltage Regional or Two high voltage Two high voltage power cord (IEC power cords (IEC power cords (IEC country specific C13 to C14) power cord C13 to C14) C13 to C14) standard required standard standard

NOTE: HP StoreEasy 1430, 1630 and 1830 no longer ship standard with a 12-foot NEMA 5-15P to C13 power cords (227099-001) that allow connection to 110V US wall outlets in a home or office. These products are primarily connected to PDU's in data center racks so they now ship standard with only a PDU 6-foot C-14 to C13 power cord (142258-001). If a user wishes to power a system using a110V receptacle (NEMA-15) use the 12-foot NEMA 5-15 to C13 power cord (227099-001). See Power Cords section for Worldwide Power Cord options.

NOTE: The HP StoreEasy 1530 Storage product is a tower server that ships standard with a 6' country specific NEMA power cord that allows connection to wall outlets in a home or office. If customers require additional local power cords, they can check the power cord matrix for the appropriate country specific sku. Please see the following power cord matrix: http://www.hp.com/go/powercordmatrix

To install the StoreEasy 1530 Storage product in a in a rack, the Tower to Rack Conversion kit (417705-B21) is required as well as a PDU power cord (416151-B21) to connect to a PDU in a data center rack.

Systen	n Fans
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StoreEasy 1430 4 fan modules ship standard, nonredundant StoreEasy 1530
One (1) Nonredundant system
fan ships standard
One (1) Nonredundant PCIe
fan ships standard

6 Hot-plug Redundant Fans ship standard

6 (N+1 redundancy standard)

StoreEasy 1830

Form Factor

StoreEasy 1430
1U Rack form factor

StoreEasy 1530 Micro ATX Tower StoreEasy 1630 2U Rack form factor StoreEasy 1830 2U Rack form

factor

Other Feature Specifications

See the corresponding ProLiant QuickSpecs for additional feature specifications.

(4U)

StoreEasy 1430 (DL320e Gen 8):

http://h18000.www1.hp.com/products/quickspecs/14326 div/14326 div.pdf

StoreEasy 1530 (ML310e Gen 8):

http://h18000.www1.hp.com/products/quickspecs/14339_div/14339_div.pdf

StoreEasy 1630 (DL380e Gen 8):

http://h18000.www1.hp.com/products/quickspecs/14328 div/14328 div.pdf

StoreEasy 1830 (DL380p Gen 8):

http://h18004.www1.hp.com/products/quickspecs/14212_div/14212_div.html



Optional Software

HP Data Protector Software

HP Data Protector Software is enterprise data protection and disaster recovery, ensuring recovery from any disruption. Data Protector integrates a variety of techniques to eliminate backup and recovery windows. The capabilities to eliminate planned downtime range from online backup and backup of open files to zero-downtime, zero-impact backup. The software provides industry-leading instant recovery as well as several disaster recovery alternatives to eliminate unplanned downtime, allowing recovery of entire data centers in minutes.

Data Protector is enabling organizations to reduce costs by automating routine tasks to maximize the effectiveness of the data protection staff. For the price of an entry-level product, it provides the enterprise functionality customers need. Data Protector scales from single server to distributed enterprise, covering an extensive range of heterogeneous applications, operating environments and storage configurations with a single solution.

For more information on HP Data Protector:

http://h18006.www1.hp.com/products/storage/software/dataprotector/index.html

HP Autonomy LiveVaultHP Autonomy LiveVault enables organizations to protect their critical application data and manage their long-term retention needs in the cloud. The LiveVault agent that is installed on HP StoreEasy Storage encrypts all data before transferring it. All data remains encrypted at HP Autonomy's secure, offsite, underground data centers - as well as on the optional TurboRestore(TM) appliance which resides in the customer data center. To ensure the physical security and availability of stored data, the LiveVault service mirrors all data to a second, geographically dispersed data center for full failover and redundancy. Visit autonomy.com/StoreEasy.



Models (Pre-Configured)

These models come with factory-installed drives and the Microsoft Windows Storage Server 2012 Standard Edition operating system pre-installed

Choose a Pre-configured Model

NOTE: All options ship separately and are not factory integrated.

NOTE: Model names are based on raw storage capacity, not available user storage.

HP StoreEasy 1000 Storage products

Common **Specifications** Operating System

Microsoft® Windows Storage Server 2012, Standard

Edition

Smart Array Advanced Pack 2.0 License key Licenses

> NOTE: for more information, visit: www.hp.com/go/smartarray

HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License

NOTE: For more information, visit:

http://www.hp.com/go/ilo

StoreEasy 1430 Models

Common **Specifications** **Processor**

(1) Intel® Core® i3-3220T (2.8GHz/2-core/3MB/45W,

HT) Processor

8GB (2 x 4GB Dual Rank x8 PC3-12800E (DDR3-Memory

1600) Unbuffered CAS-11 Memory)

HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-**Storage Controller**

port Ext SAS Controller

Internal Drive Support (4) Four 3.5" (Large Form Factor) hot-plug drive bays

Network Ports 2 x Gigabit Ethernet

Expansion Slots 2 x PCIe (one slot occupied by Smart Array P222) 1 x 460W Power Supply (optional redundant) **Power**

1U Rack **Form Factor**

HP StoreEasy 1430 8TB SATA Storage

B7D89A

Internal Storage: 4 x 2TB 6G SATA 7.2K rpm 3.5" Midline 1 year Warranty Hard Drive -Drives factory

configured as RAID 6 with OS pre-installed

HP StoreEasy 1430 12TB SATA Storage

B7D90A

Internal Storage: 4 x 3TB 6G SATA 7.2K rpm 3.5" Midline 1 year Warranty Hard Drive -Drives factory

configured as RAID 6 with OS pre-installed

StoreEasy 1530 Models

Common **Specifications** **Processor**

(1) Intel® Core™ i3-3220 (3.3GHz/2-core/3MB/65W,

HT) Processor

Memory

8GB (2 x 4GB Dual Rank x8 PC3-12800E (DDR3-

1600) Unbuffered CAS-11 Memory)

Storage Controller

HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-

port Ext SAS Controller

Internal Drive Support (4) Four 3.5" (Large Form Factor) hot-plug drive bays

Network Ports 2 x Gigabit Ethernet

4 x PCIe (one slot occupied by Smart Array P222) **Expansion Slots** Power 1 x 460W Power Supply (optional redundant)

4U Micro ATX Tower **Form Factor**



Models (Pre-Configured)

HP StoreEasy 1530 8TB SATA Storage

B7D92A

Internal Storage: 4 x 2TB 6G SATA 7.2K rpm 3.5" Midline 1 year Warranty Hard Drive -Drives factory

configured as RAID 6 with OS pre-installed

HP StoreEasy 1530 12TB SATA Storage

B7D93A

Internal Storage: 4 x 3TB 6G SATA 7.2K rpm 3.5" Midline 1 year Warranty Hard Drive -Drives factory

configured as RAID 6 with OS pre-installed

NOTE: A regional or country specific power cord option must be ordered with StoreEasy 1530. See power cord options section.

StoreEasy 1630 Models

Common Specifications

Processor (1) Intel® Xeon® E5-2407 (2.2GHz/4-

core/10MB/6.4GT-s QPI/80W, DDR3-1066, HT), 2

supported

Memory 12GB (3 x 4GB Single Rank x4 PC3L-10600R

(DDR3-1333) Registered CAS-9 Low Voltage

Memory)

Storage Controller HP Smart Array P822/2GB FBWC 2-ports Int/4-ports

Ext SAS Controller

Internal Drive Support (12) Twelve 3.5" Large Form Factor (LFF) hot-plug

drive bays in front and (2) two LFF hot-plugs drive

bays in rear

Network Ports 4 x Gigabit Ethernet

Expansion Slots 4 x PCIe (one slot occupied by Smart Array P822)

Power 2 x 750W power supplies

Form Factor 2U Rack

HP StoreEasy 1630 28TB SAS Storage

B7D95A

Internal Storage: 14 x 2TB 6G SAS 7.2K rpm 3.5" Midline 1 year Warranty Hard Drive - 7 Drives factory

configured as RAID 6 with OS pre-installed and one hot spare

HP StoreEasy 1630 42TB SAS Storage

Internal Storage: 14 x 3TB 6G SAS 7.2K rpm 3.5" Midline 1 year Warranty Hard Drive - Drives factory

configured as RAID 6 with OS pre-installed and one hot spare

B7D96A

StoreEasy 1830 Models

Common Specifications

Processor (1) Intel® Xeon® E5-2609 (2.4GHz/4-

core/10MB/6.4GT-s QPI/80W)

Memory 16GB (4 x 4GB Single Rank x4 PC3L-10600R

(DDR3-1333) Registered CAS-9 Low Voltage

Memory Kit)

Storage Controller HP Smart Array P822/2GB FBWC 2-ports Int/4-ports

Ext SAS Controller

Internal Drive Support (25) Twenty five 2.5" Small Form Factor (SFF) hot-

plug drive bays

Network Ports 4 x Gigabit Ethernet

Expansion Slots 6 x PCIe (one slot occupied by Smart Array P822)

Power 2 x 750W power supplies

Form Factor 2U Rack

HP StoreEasy 1830 12. 6TB SAS Storage

B7D98A

Internal Storage: 2 x450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive -

Drives factory configured as RAID 1+0 with OS pre-installed

Internal Storage: 14 x 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive

NOTE: 9 Open SFF drive bays



Models (Pre-Configured)

HP StoreEasy 1830 20.7TB SAS Storage

B7D99A

Internal Storage: 2 x450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive -

Drives factory configured as RAID 1+0 with OS pre-installed

Internal Storage: 23 x 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive



Models (Drives Configure-to-Order)

The StoreEasy 1430, 1530, and 1630 models below have no and allow you to select drive quantity, type, and capacity to be integrated at the factory.

The StoreEasy 1830 comes with 2 x450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise drives factory configured as RAID 1 with OS pre-installed. This model allows you to select drive quantity, type, and capacity to be integrated at the factory.

Choose a Base Model, then Select Hard Drives

NOTE: You must select a minimum of 4 drives of the same type and capacity for the StoreEasy 1430 and 1530.

NOTE: You must select a minimum of 8 drives of the same type and capacity for the StoreEasy 1630. **NOTE:** Options (other than drives selected as part of the configure-to-order process) ship separately and are not factory integrated.

HP StoreEasy 1000 Storage products (Base models)

Common Specifications

Operating System

Microsoft® Windows Storage Server 2012, Standard

Edition

Licenses Smar

Smart Array Advanced Pack 2.0 License key

NOTE:for more information, visit: www.hp.com/go/smartarray

HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License

NOTE: For more information, visit:

http://www.hp.com/go/ilo

StoreEasy 1430 Models

B7D88A

NOTE: This model does not include pre-configured HDDs. A minimum of 4 HDDs of the same type and a capacity greater than 146GB (excluding SSD drives) must be ordered for factory integration. This system cannot be shipped with less than 4 HDDs. The four drives will be factory configured as RAID 6 with the OS pre-installed.

Specifications Same as the StoreEasy 1430 pre-configured models listed above

Drive Options Minimum Number of 4

Drives Required

Maximum Number of

Drives Allowed

StoreEasy 1530 Models

NOTE: This model does not include pre-configured HDDs. A minimum of 4 HDDs of the same type and a capacity greater than 146GB (excluding SSD drives) must be ordered for factory integration. This system cannot be shipped with less than 4 HDDs. The four drives will be factory configured as RAID 6 with the OS pre-installed.

NOTE: A country specific power cord option must be ordered with StoreEasy 1530. See power cord

options section.

Specifications Same as the StoreEasy 1530 pre-configured models listed above

Drive Options Minimum Number of 4

Drives Required

Maximum Number of 4

Drives Allowed

StoreEasy 1630 Network Storage System (LFF)

B7D94A

B7D91A



Models (Drives Configure-to-Order)

NOTE: This model does not include pre-configured HDDs. A minimum of 8 HDDs of the same type and a capacity greater than 146GB (excluding SSD drives) must be ordered for factory integration. This system cannot be shipped with less than 8 HDDs. 7 of 8 drives will be factory configured as RAID 6 with the OS pre-installed and one drive available as a hot spare.

14

Specifications Same as the StoreEasy 1630 pre-configured models listed above

Drive Options Minimum Number of 8

Drives Required
Maximum Number of

Drives Allowed

StoreEasy 1830 Storage

B7D97A

NOTE: This model includes (2) two 450GB 6G 10K rpm SFF HDDs factory configured as RAID 1+0 with the OS preinstalled. A minimum of 14 HDDs of the same type and a capacity must be ordered for factory integration. This system cannot be shipped with less than 8 HDDs.

Specifications Same as the StoreEasy 1830 pre-configured models listed above

Drive Options Minimum Number of 0

Drives Required

Maximum Number of 23

Drives Allowed



Options

The following options are available for both StoreEasy Pre-configured and Base Models

NOTE: Options ship separately and are not factory integrated

NOTE: Carefully match options to your model to ensure compatibility

Add Another Processor

You can add a second processor to the StoreEasy 1630 and StoreEasy 1830 models

NOTE: StoreEasy 1430 and 1530 models support one processor only.

HP DL380e Gen8 Intel® Xeon® E5-2407 (2.2GHz/4-core/10MB/80W) 661132-B21 StoreEasy 1630

Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) 662252-B21 StoreEasy 1830

Processor Kit

Add More Memory

NOTE: HP recommends that you add the same type memory to the product that is shipped standard with the product

NOTE: Number of available DIMM sockets varies by model.

NOTE: HP memory from previous generation servers are not fully compatible with Smart Memory features in Gen8

Unbuffered with ECC DIMMs (UDIMMs) StoreEasy 1430 /

StoreEasy 1530 HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-669322-B21

11 Memory Kit

Registered DIMMs (RDIMMs) StoreEasy 1630 /

StoreEasy 1830 HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered 647893-B21

CAS-9 Low Voltage Memory Kit

NOTE: All DDR3 memory option kits consist of one DIMM per kit. NOTE: PC3L is a low voltage

memory.

Add Optical Drives

StoreEasy 1430 HP 9.5mm SATA DVD-ROM JackBlack Optical Drive 652238-B21

> HP 9.5mm SATA DVD-RW JackBlack Optical Drive 652241-B21

StoreEasy 1530 HP Half-Height SATA DVD ROM JackBlack Optical Drive 624189-B21

> HP Half-Height SATA DVD RW JackBlack Optical Drive 624192-B21

Add a Network Adapter

NOTE: Expansion slot availability varies by model.

NOTE: Multifunction Server Adapters support the installed Microsoft Windows Server Scalable Networking Pack, which enables TCP Chimney offload, Receive-side Scaling (RSS), and Network Direct Memory Access (NetDMA) features.

StoreEasy 1430/1530 **Gigabit Ethernet Adapters**

HP NC112T PCI Express Gigabit Server Adapter 503746-B21 HP NC365T 4-port Ethernet Server Adapter 593722-B21 HP Ethernet 1Gb 2-port 361T Adapter 652497-B21 HP Ethernet 1Gb 4-port 331T Adapter 647594-B21 HP Ethernet 1Gb 2-port 332T Adapter 615732-B21

10 Gigabit Ethernet Adapters

NOTE: No more than two 10GbE I/O devices are supported in a single

system.

NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per

NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased

separately. See cables/options below.



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	HP NC523SFP 10Gb 2-port Server Adapter	593717-B21
	HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
	HP Ethernet 10Gb 2-port 530SFP Adapter (StoreEasy 1530 only)	652503-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information: www.hp.com/go/ProLiantNICs.	
StoreEasy 1630	Gigabit Ethernet adapters	
	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
	HP NC365T 4-port Ethernet Server Adapter	593722-B21
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	10 Gigabit Ethernet Adapters	
	NOTE: No more than two 10GbE I/O devices are supported in a single system.	
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber	
	transceivers and cables for fiber-optic environments must be purchased separately.	
	HP NC523SFP 10Gb 2-port Server Adapter	593717-B21
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	014203-621
	information: www.hp.com/go/ProLiantNICs	
StoreEasy 1830	Gigabit Ethernet adapters	
0.0.0_00	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
	HP NC365T 4-port Ethernet Server Adapter	593722-B21
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	·	013/32-621
	10 Gigabit Ethernet Adapters NOTE: No more than two 10GbE I/O devices are supported in a single	
	system.	
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per	
	each adapter.	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber	
	transceivers and cables for fiber-optic environments must be purchased	
	separately.	
	HP NC523SFP 10Gb 2-port Server Adapter	593717-B21
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
HP Security	HP Trusted Platform Module Option	488069-B21
•	NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can	
	securely store artifacts used to authenticate the server platform. These	
	artifacts can include passwords, certificates and encryption keys. Windows®	



Options

in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: www.hp.com/go/TPM.

NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.

HP 1U Security Bezel Kit (StoreEasy 1430) HP 2U Security Bezel Kit (StoreEasy 1630/1830) 664918-B21 666988-B21

Add More Storage

HP StoreEasy Storage products come standard with at least one installed Smart Array Controller that supports internal drives. The Smart Array Controllers also have external ports for expansion to external storage.

NOTE: Expansion slot availability varies by model.

NOTE: The StoreEasy 1530 can only support one Smart Array Controller (P222) which is pre-installed from the factory.

StoreEasy 1430/1530

SAS Controllers

Smart Array P421 Controller (StoreEasy 1430 only)

HP Smart Array P421/1GB FBWC 6Gb 2-ports Ext SAS Controller 631673-B21 HP Smart Array P421/2GB FBWC 6Gb 2-ports Ext SAS Controller 631674-B21

Optional Upgrades (StoreEasy 1430 only)

HP 2GB P-series Smart Array Flash Backed Write Cache 631681-B21 HP Smart Array Advanced Pack 2.0 No Media 1 Server 1yr 24x7 Support BC377A Software

HP Smart Array Advanced Pack 2.0 No Media Electronic Lic 1yr 24x7 Support Software

BC390AAE

650931-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18000.www1.hp.com/products/guickspecs/14227 div/14227 div.html (Smart Array P222 Controller)

http://h18000.www1.hp.com/products/quickspecs/14228_div/14228_div.html

(Smart Array P420 Controller) http://h18000.www1.hp.com/products/quickspecs/14229_div/14229_div.html (Smart Array P421 Controller)

http://h18000.www1.hp.com/products/guickspecs/13200 div/13200 div.html

(Smart Array Advanced Pack)

Host Bus Adapter

HP H221 Host Bus Adapter

NOTE: This is a 2 x4 External Port HBA.

NOTE: Please see the QuickSpecs for Technical Specifications and additional

information: http://h18004.www1.hp.com/products/quickspecs/14336_div/14336_div.html (HBA 220)

http://h18004.www1.hp.com/products/guickspecs/14222 div/14222 div.html

http://h18004.www1.hp.com/products/quickspecs/14337_div/14337_div.html (HBA 222)

SCSI HBA

HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter

412911-B21 **NOTE:** Please see the following QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/12566_div/12566_div.html (SC11Xe HBA)



Options

Fibre Channel HBA

NOTE: For detailed compatibility information please see:

http://h18006.www1.hp.com/storage/saninfrastructure/hba.html

QLogic Fibre Channel HBAs

HP 81Q 8Gb 1-port PCle Fibre Channel Host Bus Adapter

AK344A

HP 82Q 8Gb 2-port PCle Fibre Channel Host Bus Adapter

AJ764A

Converged Network Adapter (StoreEasy 1430 only)

HP CN1000Q Dual Port Converged Network Adapter BS668A

StoreEasy 1630/1830 SAS Controllers

Smart Array P421 Controller

HP Smart Array P421/1GB FBWC 6Gb 2-ports Ext SAS Controller 631673-B21
HP Smart Array P421/2GB FBWC 6Gb 2-ports Ext SAS Controller 631674-B21

Smart Array P822 Controller

HP Smart Array P822/2GB FBWC 2-ports Int/4-ports Ext SAS Controller 615418-B21

Optional Upgrades

HP 2GB P-series Smart Array Flash Backed Write Cache

HP Smart Array Advanced Pack 2.0 No Media 1 Server 1yr 24x7 Support

Software

631681-B21

BC377A

HP Smart Array Advanced Pack 2.0 No Media Electronic Lic 1yr 24x7 Support Software

BC390AAE

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18000.www1.hp.com/products/quickspecs/14227_div/14227_div.html (Smart Array P222 Controller)

http://h18000.www1.hp.com/products/quickspecs/14228_div/14228_div.html (Smart Array P420 Controller)

http://h18000.www1.hp.com/products/quickspecs/14229_div/14229_div.html (Smart Array P421 Controller)

http://h18000.www1.hp.com/products/quickspecs/14341_div/14341_div.html

(Smart Array P822 Controller)
http://h18000.www1.hp.com/products/quickspecs/13200_div/13200_div.html

(Smart Array Advanced Pack) http://h18000.www1.hp.com/products/quickspecs/14343_div/14343_div.html

Host Bus Adapter

HP H221 Host Bus Adapter

(Dynamic Smart Array Controllers)

650931-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18004.www1.hp.com/products/quickspecs/14336_div/14336_div.html (HBA 220)

http://h18004.www1.hp.com/products/quickspecs/14222_div/14222_div.html (HBA 221)

http://h18004.www1.hp.com/products/quickspecs/14337_div/14337_div.html (HBA 222)

Fibre Channel HBA

NOTE: For detailed compatibility information please see:

http://h18006.www1.hp.com/storage/saninfrastructure/hba.html

Brocade Fibre Channel HBAs

HP 81B 8Gb 1-port PCle Fibre Channel Host Bus Adapter

HP 82B 8Gb 2-port PCle Fibre Channel Host Bus Adapter

AP770B

Emulex Fibre Channel HBAs

Liliulex I lbre Chaille HbAs

HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter

HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter

AJ762B

AJ763B



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Options		
	HP SN1000E 16Gb 1-port PCle Fibre Channel Host Bus Adapter	QR558A
	HP SN1000E 16Gb 2-port PCle Fibre Channel Host Bus Adapter	QR559A
	QLogic Fibre Channel HBAs	
	HP 81Q 8Gb 1-port PCle Fibre Channel Host Bus Adapter	AK344A
	HP 82Q 8Gb 2-port PCle Fibre Channel Host Bus Adapter	AJ764A
	Converged Network Adapter	
	HP CN1000Q Dual Port Converged Network Adapter	BS668A
	HP CN1100E Dual Port Converged Network Adapter	BK835A
StoreEasy 1830	SCSI HBA	
	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter	412911-B21
	NOTE: Please see the following QuickSpecs for additional information:	
	http://h18000.www1.hp.com/products/quickspecs/12566_div/12566_div.html	
HP Hard Drives for	(SC11Xe HBA) NOTE: The HP StoreEasy 1430 and 1530 are equipped with entirely re-	
StoreEasy 1430/1530	designed Large Form Factor (LFF 3.5 in) hot plug carriers for HP Qualified	
	Hard Drives and Solid State Drives. These new carriers provide status and	
	activity indicators as well as caution indicators for "Do Not Remove".	
	NOTE: The components of a storage subsystem (e.g. the drive, the	
	HBA/controller, firmware, and the server backplane) should operate at the	
	same data transfer rate or the system bandwidth will be negotiated down to an	
	acceptable level for all components.	
	NOTE: Hard drives have either a one year or three year warranty; refer to the	
	specific hard drive QuickSpecs for details. SAS Hot Plug SmartDrive LFF (3.5-inch) Enterprise Drives	
	HP 600GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard	652620-B21
	Drive	002020-621
	HP 450GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard	652615-B21
	Drive	
	SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives	
	HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
	HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information:	
	http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html	
	(Worldwide)	
	6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline (MDL) Drives	
	HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard	628061-B21
	Drive	050070 D04
	HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard	658079-B21
	Drive	657750 D01
	HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
	HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard	658071-B21
	Drive	00007 1-021
	NOTE: SATA hard drives have a 1-year warranty. Please see the QuickSpecs	
	for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html	
	(Worldwide)	



Options

HP Hard Drives for StoreEasy 1630

NOTE: The HP StoreEasy 1630 is equipped with entirely re-designed Large Form Factor (LFF 3.5 in) hot plug carriers for HP Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove".

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

SAS Hot Plug SmartDrive LFF	(3.5-inch) Enterprise Drives
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HP 600GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652620-B21
HP 450GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard	652615-B21
Drive	

SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives

HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional

http://h18000.www1.hp.com/products/guickspecs/12244 div/12244 div.html (Worldwide)

6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline (MDL) Drives

HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard	628061-B21
Drive	
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard	658079-B21
Drive	

HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard 658071-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional

http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html (Worldwide)

3G SATA MLC Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State **Drives**

HP 400GB 3G SATA MLC LFF (3.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653126-B21
HP 200GB 3G SATA MLC LFF (3.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653124-B21
HP 100GB 3G SATA MLC LFF (3.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653122-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18000.www1.hp.com/products/quickspecs/14038 div/14038 div.html (Worldwide)

NOTE: All Factory shipped models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the system.

HP LFF Gen8 Hard Drive Blank Kit 666986-B21



657750-B21

Options

HP Hard Drives for StoreEasy 1830

NOTE: The HP StoreEasy 1830 is equipped with entirely re-designed Small Form Factor (SFF 2.5 in) hot plug carriers for HP Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove".

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

specific hard drive QuickSpecs for details.	
SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives	
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard	652572-B21
Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard	652564-B21
Drive	0=0044 D04
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
SAS Hot Plug SmartDrive SFF (2.5-inch) Midline Drives	
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard	652745-B21
Drive	
6G SATA Hot Plug with SmartDrive SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard	655710-B21
Drive	055700 D04
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
6G SAS ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690829-B21
HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise	690827-B21
Mainstream 3yr Wty Solid State Drive	
HP 200GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690825-B21
6G SAS SLC Hot Plug SFF (2.5-inch) Enterprise Performance Solid State	
Drives	
HP 400GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive	653082-B21
HP 200GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr	653078-B21
Warranty Solid State Drive	000070 B21
Hard Drive Kits	
NOTE: All Factory shipped models will be populated with sufficient hard drive	
blanks based on the number of initial hard drives ordered with the system.	
NOTE: The part numbers for single HDD blanks below are provided should	
the customer require replacement HDD blanks for their server.	666007 D04
HP SFF Gen8 Hard Drive Blank Kit	666987-B21



B7E08A

B7E09A

QuickSpecs

Options

StoreEasy Disk Enclosures

NOTE: The enclosures listed below can be used to add external storage capacity to a HP StoreEasy 1430, 1530, 1630 or 1830.

HP StoreEasy 12 LFF Disk Enclosure

 $\ensuremath{\text{NOTE:}}$ This enclosure is the HP D2600 Disk Enclosure. For more information

see:

http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html **NOTE**: The 12 LFF Disk Enclosure will support (2) of the LFF Drive Bundles (B7E11A, B7E12A, or B7E13A). If less than 12 drives are required, individual LFF drives can be ordered.

NOTE: Though it is not required, HP recommends using all of the same capacity LFF drives within the enclosure.

HP StoreEasy 25 SFF Disk Enclosure

NOTE: This enclosure is the HP D2700 Disk Enclosure. For more information

http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html **NOTE**: The 25 SFF Disk Enclosure will support (2) of the SFF Drive Bundles (B7E14A, B7E15A). If between 19 and 25 SFF drives are needed in the enclosure, individual SFF drives can be ordered or you can order a third SFF drive bundle and have two spare drives available as needed. See QuickSpecs listed above for individual drive information.

NOTE: HP recommends using all of the same capacity SFF drives within the enclosure.

NOTE: For the above enclosures you can connect any combination of up to (4) HP StoreEasy 12 LFF enclosures or StoreEasy 25 SFF enclosures.

Drives bundles for StoreEasy Enclosures

NOTE: The Drive Bundles below can only be added to the StoreEasy Enclosures listed above. They cannot be added to a StoreEasy1430, 1530, 1630 or 1830 as they do not use the new hot plug SFF or LFF carriers used by ProLiant Gen 8 servers.

HP StoreEasy 6TB LFF Drive Bundle

NOTE: This bundle contains (6) 1TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual

Port Midline 1yr Warranty Hard Drive

HP StoreEasy 12TB LFF Drive Bundle B7E12A

NOTE: This bundle contains (6) 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive

HP StoreEasy 18TB LFF Drive Bundle B7E13A

NOTE: This bundle contains (6) 3TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual

Port Midline 1yr Warranty Hard Drive

HP StoreEasy 5.4TB SFF Drive Bundle B7E14A

NOTE: This bundle contains (9) 600GB 6G SAS 10K rpm SFF (2.5-inch) Dual

Port Enterprise 3yr Warranty Hard Drive

Drives for StoreEasy Enclosures

HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive 652753-B21 HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive 652757-B21 HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive 652766-B21 HP 450GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive 652615-B21 Drive

HP 600GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard 652620-B21 Drive



Options

Add a Power Supply

The HP StoreEasy 1430 and 1530 Storage products come standard with one 460W power supply. Add a second power supply for redundancy.

StoreEasy 1430/1530 HP 460W Common Slot Gold Hot Plug Power Supply Kit

503296-B21

Add a Power Cord

NOTE: A regional or country specific power cord option must be ordered with StoreEasy 1530.

StoreEasy HP 1.83m 10A C13-UL US Power Cord	AF556A
1530 HP 1.83m 10A C13 China Power Cord	AF557A
HP 2.5m 10A C13-Argentina Power Cord	AF558A
HP 1.83m 10A C13 Brazil Power Cord	AF559A
HP 1.83m 10A C13 Korea Power Cord	AF560A
HP 1.83m 10A C13 Taiwan Power Cord	AF561A
HP 2.0m 10A C13 India Power Cord	AF562A
HP 2.5m C13 AU/NZ Power Cord	AF569A
HP 1.83m 10A C13 CH Power Cord	AF565A
HP 1.83m 10A C13 DK Power Cord	AF566A
HP 1.83m 10A C13 EU Power Cord	AF568A
HP 1.83m 10A C13 IL Power Cord	AF564A
HP 1.83m C13 IT/CL Power Cord	AF571A
HP 2m C13 Japan Power Cord	AF572A
HP 1.83m 10A C13 UK Power Cord	AF570A
HP 2.5m C13 ZA/IN Power Cord	AF567A
HP 1.83m 10A C13 NBR14136 Brazil Power Cord	AF591A

StoreEasy HP Tower to Rack Conversion Tray Universal Kit **1530 Rack Option**

417705-B21

StoreEasy 1830 I/O Expansion Option

HP DL380p/385p Gen8 3 Slot PCI-E Riser Kit NOTE: Second processor required if selected.

653206-B21

HP X1800 G2 HP X18 WSS2012 OS Upgrade Edition

HP X1800 G2 Upgrade to Windows Storage Server 2012 Standard Edition

X1800 G2 Network Storage Servers with the Microsoft Windows Storage Server 2008 R2, Standard Edition Operating System are eligible for a Software-Only Pay -for-Upgrade to the Microsoft Windows Storage Server 2012

Standard Edition operating system:

This upgrade is performed as a clean install and all system configuration will be lost including share configurations, so a full backup of the data should be done prior to upgrading

* A minimum of two OS drives that are the same type and capacity (146GB minimum) must be present in the system before installation.

NOTE: Some expansion cards, including HBAs and NICs, may not be supported by Windows Storage Server 2012. Check Windows Server 2012 driver availability before purchase and installation. All original components



Options

that were standard on the X3800 G2 are supported.

NOTE: Check for HP and 3rd-party software qualification with the Windows Storage Server 2012 operating system before purchase and installation.

HP X1800/X3800 G2 WSS2012 Upgrade Software

TC392A



Service and Support, HP Care Pack, and Warranty Information

Warranty

HP StoreEasy 1000 Storage products come with a standard 3-3-3 warranty (3 years parts exchange, 3 years labor and 3 years onsite, next business day response). Software media is warranted to be free of physical defect for a period of 90 days from delivery.

Services Included with One year of HP Software Support, standard 9x5 business hours (software advisory and remedial software telephone support, new version license rights, and media and documentation distribution service).

For increased uptime, productivity and ROI-HP Care Pack packaged services for Storage

These days, you need to get the most out of your storage investment-you can't afford not to. When you buy HP storage products and solutions, it's also a good time to think about what levels of service and support you may need. To help take the worry out of deploying, designing, maintaining, and managing your environment, we've designed a portfolio of service options that are as: flexible, reliable and scalable as your storage. Unlike storage-only vendors, we take a holistic approach to your entire environment, bridging storage, servers, blades, software and network infrastructures with our HP Care Pack packaged services for Storage.

Protect your business beyond the warranty

When it comes to robustness and reliability, standard warranties on today's computing equipment have matured just as the technologies have matured. Good news on some fronts-but also a source of potential problems and subsequent consequences that come from depending on standard warranties alone. Standard warranty protects against product defects and some causes of downtime- but not the business. By using a standard approach to warranty uplifts, such as HP Care Pack Services, you can reduce downtime risks and be more certain of operational consistency for both mission-critical and standard business computing. Simply put, HP Care Pack Services normalize the warranty of combined products - helping you proactively guard against unplanned downtime.

Extending warranties with HP Care Pack Services

For cost-effective upgrading or extending your standard warranty, HP Care Pack Services offer a suite of standard reactive hardware and software support services that are sold separately, or combined as with our Support Plus and Support Plus 24 services. The portfolio also provides a combination of proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition, with HP Proactive Select we offer an innovative approach to service delivery that gives you the flexibility to acquire the specific proactive services you need today, then add services as your needs evolve. HP Proactive Select offers a broad set of technical or per-event type service options - including server, storage, and network, SAN device, and software, environment, installation and education services. Services that you can mix and match depending on your specific requirements, from preliminary planning and equipment delivery to installation, configuration, integration, and testing, through every level of ongoing support. Our HP Care Pack packaged services for Storage assures help when you need it most. And for many products, post-warranty HP Care Pack Services are available when your original warranty has expired.

HP Storage Services: Offering reliability, flexibility and value-just like your storage

HP Storage Services offers a full spectrum of customer care, from technology support to complex migrations to complete completely managed services. HP Factory Express provides customization, integration and deployment services for turnkey solutions. HP Education offers flexible, comprehensive training on storage networking, disk storage systems, and storage software to help your IT staff get the most out of your investments. And HP Financial solutions extend innovative financing and asset management programs to cost-effective buy, manage and eventually retire your older equipment.

HP Storage Services, the trusted business technology experts who manage your technology in action, because when technology works, business works. http://www.hp.com/hps/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



Service and Support, HP Care Pack, and Warranty Information

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

Recommended Services

3-Year HP Support Plus 24

For a higher return on your storage investment, HP Support Plus 24 provides integrated hardware and software support services designed specifically for your technology. Available 24x7, this 3-year combined reactive support option delivers onsite hardware support and over-the-phone software support around-the-clock. Leverage the full strength of HP Technology Services - 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.

- 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/GetPDF.aspx/5981-6638EN.pdf

HP Installation and Startup Service for StoreEasy Storage

For smooth startup, HP Installation and Startup Service provides for deployment of your HP StoreEasy product while helping you establish readily available access to and management of your critical data and applications. Leverage the full strength of HP Technology Services - 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.

- System installation and setup by a HP technical specialist
- Reduced implementation time and cost
- Verification prior to installation that all service prerequisites are met
- Availability of an HP service specialist to answer basic questions related to this service during the orientation session
- Potential expansion of the number of shares and hosts

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA2-6112ENL.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.

Optional Services

HP 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



Service and Support, HP Care Pack, and Warranty Information

these migrations efficiently while minimizing risk at the same time.

HP 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

Customer Technical Training

Consider education as an integral part of your strategy to get the best return on investment for your HP storage solution. HP offers a variety of training courses on storage software, networking, archiving and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led courses at one of our 80 training centers worldwide to on-site training customized to your needs or online. www.hp.com/learn/storage

HP Services Awards

HP 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. For a list of all our awards, please visit: http://h20219.www2.hp.com/services/cache/433028-0-0-225-121.html

Additional Services Information

For more information about HP Care Pack Services for Storage, please visit: http://www.hp.com/hps/storagelf you have specific questions, contact your local HP representative. Contact information for a representative in your area can be found at "Contact HP" http://www.hp.com



Memory

See the HP ProLiant Gen 8 QuickSpecs for information on memory configurations.

StoreEasy 1430 (DL320e Gen 8): http://h18000.www1.hp.com/products/quickspecs/14326_div/14326_div.pdf

StoreEasy 1530 (ML310e Gen 8): http://h18000.www1.hp.com/products/quickspecs/14339_div/14339_div.pdf

StoreEasy 1630 (DL380e Gen 8): http://h18000.www1.hp.com/products/quickspecs/14328_div/14328_div.pdf

StoreEasy 1830 (DL380p Gen 8): http://h18004.www1.hp.com/products/quickspecs/14212_div/14212_div.html



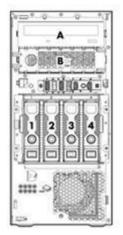
Storage

StoreEasy 1430



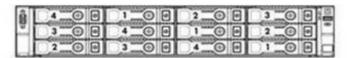
Four 3.5" (LFF) hot plug SATA / SAS hard drive bays

StoreEasy 1530

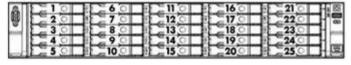


Four 3.5" (LFF) hot plug SATA / SAS hard drive bays

StoreEasy 1630 (14 LFF HDD)



StoreEasy 1830



Twelve 3.5" (LFF) hot plug SATA / SAS hard drive bays in front/Two3.5" (LFF) hot plug SATA / SAS hard drive bays in rear (not Shown)

25 2.5" (SFF) hot plug SAS / SATA hard drive bays



Technical Specifications

StoreEasy 1430 St	orage			
System Unit	Dimensions (H x W x D) (with bezel)	4 LFF	1.7 x 17.11 x 29.5 inches (4.32 x 43.46 x 75.0 cm)	
	Weight (approximate)	Maximum (all hard drives, power supply, and processor installed)	4 LFF - 16.2/16.8 kg, 35.7/37.0 lb	
		Minimum (one hard drive, power supply, and processor installed)	32 lb (14.51 kg)	
	Input Requirements	Rated Line Voltage	100 to 120 VAC	
	(per power supply)	Rated Input Current	6 Amps (at 100VAC) to 3 Amps (at 200 VAC)	
		Rated Input Frequency	50 to 60 Hz	
	Power Supply Output (per power supply)	Rated Steady-State Power	350 W (at 100 to 120 VAC), 350 W (at 200 to 240 VAC)	
		Maximum Peak Power	400 W (at 100 to 120 VAC), 400 W (at 200 to 240 VAC)	
	System Inlet Temperature	Operating	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).	
		Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).	
	Relative Humidity (non-condensing)	Operating	10% to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.	
		Non-operating	5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.	
	Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).	
		Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).	
	Acoustic Noise	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with IS 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).		
		Idle (Note 1)		

Technical Specifications

	_		
		LWAd	5.0 B
	LpAm		35 dB Average Bystander
	Operating		
	LWAd		5.1 B
		LpAm	35 dB Average Bystander
	NOTE: Values are subject to change without notification and are for reference only. NOTE: Performance of system, options, and ancillary equipment will vary depending on the system configuration. NOTE: Levels presented do not account for non-Hewlett-Packard installed hardware.		
Emissions	FCC Rating		Class A
Classification (EMC)	Normative Standards		CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
	NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.		

HP iLO 4 On System Management Architecture PCI Express based health and remote management ASIC

Processor Embedded ARM processor core operating at 400MHz

UpgradeabilityFirmware upgradeable via Flash ROMVideo Support1920 x 1200 (16 bpp) DVR max resolution

Interfaces HP iLO Dedicated Network connection (10/100/1000 Mb/s) on rack,

tower and SL systems

HP iLO Shared Network connection (10/100/1000 Mb/s) on rack, tower

and SL systems

HP iLO network connection to blades (100 Mb/s) to Onboard Administrator (with 10/100/1000 Mb/s uplink) on blade systems

Memory 16 MB Flash

256 MB DDR 3 with ECC (112 MB after ECC and video)

Operating System Support

For information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from HP, please visit

our OS Support Site at: http://www.hp.com/go/ossupport

Client System Support For information on Client System Support, please visit the HP iLO

Feature Comparison Site at: www.hp.com/go/compareilo

Client Browser Support Microsoft Internet Explorer 9

NOTE: For customers using Protected Mode, please use the Java

based version of Integrated Remote Console.

Microsoft Internet Explorer 8

NOTE: For customers using Protected Mode, please use the Java

based version of Integrated Remote Console.

Microsoft Internet Explorer 7

Firefox Extended Support Release (ESR) 10 (on supported Windows

and Linux systems

Firefox 3.6 (on supported Windows and Linux systems)



Technical Specifications

Command Line Secure Shell and serial port access

Support Secure Socket Layer

Secure Shell version 2

Security Advanced Encryption Standard (AES) and Triple Data Encryption

Standard (3DES) on browser, CLP and XML scripting interface

AES encryption of video RC4 encryption of video

Directory Support

Services

Active Directory v1.0 (Windows 2003)

Driver Support HP ProLiant iLO 4 Management Controller Driver Package **Management protocols** SNMP, IPMI 2.0 (system and LAN interface), DMTF Systems

supported

Management Architecture for Server Hardware Command Line Protocol

(SMASH CLP), HP RIBCL XML

HP Ethernet 1Gb 2-port Compatibility

330i Adapter

IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T

IEEE 802.3u 100Base-TX

Data Transfer Method

PCI Express, four lanes (x8)

Controller BCM5717

Network Transfer Rate 10Base-T (Half-Duplex) 10 Mb/s per port, 20 Mb/s Combined

10Base-T (Full-Duplex) 20 Mb/s per port, 40 Mb/s Combined 100Base-TX (Half- 100 Mb/s per port, 200 Mb/s Combined

Duplex)

100Base-TX (Full-

200 Mb/s per port, 400 Mb/s Combined

Duplex)

1000Base-TX (Half-

1000Mb/s per port, 2000 Mb/s Combined

Duplex)

1000 Base-TX (Full-

2000Mb/s per port, 4000 Mb/s Combined

Duplex)

Connector RJ-45

Cable Support 10Base-T Categories 3, 4 or 5 UTP; up to 328 ft (100 m)

10/100/1000Base-TX Category 5 or better; up to 328 ft (100 m

StoreEasy 1530			
System Unit	Tower Dimensions (H x W x D) (with feet/bezel)	14.5.x 6.89 x 18.71 in (36.82 x17.5 x 47.52 cm)	
	Weight (approximate)	Maximum (all hard drives, power supply, and processor installed)	41.8 lb (18.96 kg)
		Minimum (one hard drive, power supply, and processor installed)	25.29 lb (11.47 kg)

Technical Specifications

Input Requirements	Rated Line Voltage	100 to 240 VAC	
(per power supply)	Rated Input Current	7.1 Amps (at 120VAC) to 3.5 Amps (at 240 VAC)	
	Rated Input Frequency	50 to 60 Hz	
	Rated Input Power	486 W	
BTU Rating	Maximum	460W - 1773 BTU / hr (at 120 VAC), 1715 (at 240 VAC)	
Power Supply Output (per power supply)	Rated Steady-State Power	350 W (at 100 VAC), 350 W (at 200 VAC)	
	Maximum Peak Power	350 W (at 100 VAC), 350 W (at 200 VAC)	
System Inlet Temperature	Operating	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).	
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).	
Relative Humidity (non-condensing)	Operating	10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.	
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.	
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).	
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).	
Acoustic Noise	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).		
	Idle		
	L WAd	4.3 B	
	L pAm	26dB-A	
	Operating		
	L WAd	4.4 B	
	L pAm	28dB-A	
	NOTE: The Listed sound	levels apply to standard shipping	
	i	options may result in increased sound levels	
Emissions	FCC Rating	Class B	

Technical Specifications

Classification (EMC)	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
	on sample (type) testing,	evaluation, or assessment. This product or ble to bear the appropriate compliance logos

HP iLO 4 On System Management

Architecture PCI Express based health and remote management ASIC Embedded ARM processor core operating at 400MHz **Processor**

Upgradeability Firmware upgradeable via Flash ROM Video Support 1920 x 1200 (16 bpp) DVR max resolution

Interfaces HP iLO Dedicated Network connection (10/100/1000 Mb/s) on rack,

tower and SL systems

HP iLO Shared Network connection (10/100/1000 Mb/s) on rack, tower

and SL systems

HP iLO network connection to blades (100 Mb/s) to Onboard Administrator (with 10/100/1000 Mb/s uplink) on blade systems

16 MB Flash Memory

256 MB DDR 3 with ECC (112 MB after ECC and video)

Operating System Support

For information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from HP, please visit

our OS Support Site at: http://www.hp.com/go/ossupport

Client System Support For information on Client System Support, please visit the HP iLO

Feature Comparison Site at: www.hp.com/go/compareilo

Client Browser Support Microsoft Internet Explorer 9

NOTE: For customers using Protected Mode, please use the Java

based version of Integrated Remote Console.

Microsoft Internet Explorer 8

NOTE: For customers using Protected Mode, please use the Java

based version of Integrated Remote Console.

Microsoft Internet Explorer 7

Firefox Extended Support Release (ESR) 10 (on supported Windows

and Linux systems

Firefox 3.6 (on supported Windows and Linux systems)

Command Line

Support

Secure Shell and serial port access

Secure Socket Layer

Secure Shell version 2

Advanced Encryption Standard (AES) and Triple Data Encryption Security

Standard (3DES) on browser, CLP and XML scripting interface

AES encryption of video RC4 encryption of video

Directory Support

Services

Active Directory v1.0 (Windows 2003)

Driver Support HP ProLiant iLO 4 Management Controller Driver Package

supported

Management protocols SNMP, IPMI 2.0 (system and LAN interface), DMTF Systems

Management Architecture for Server Hardware Command Line Protocol

(SMASH CLP), HP RIBCL XML



Technical Specifications

HP Ethernet 1Gb 2-port Compatibility

330i Adapter

IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX

Data Transfer Method

PCI Express, four lanes (x8)

Controller

BCM5717

Network Transfer Rate 10Base-T (Half-Duplex)

10Base-T (Half-Duplex) 10 Mb/s per port, 20 Mb/s Combined 10Base-T (Full-Duplex) 20 Mb/s per port, 40 Mb/s Combined 100Base-TX (Half- 100 Mb/s per port, 200 Mb/s Combined

Duplex)

100Base-TX (Full-

200 Mb/s per port, 400 Mb/s Combined

Duplex)

1000Base-TX (Half-

1000Mb/s per port, 2000 Mb/s Combined

Duplex)

1000 Base-TX (Full-

2000Mb/s per port, 4000 Mb/s Combined

Duplex)

Connector
Cable Support

RJ-45 10Base-T

Categories 3, 4 or 5 UTP; up to 328 ft (100 m)

10/100/1000Base-TX

Category 5 or better; up to 328 ft (100 m

System Unit	Dimensions - with bezel (H x W x D)	LFF Drives: 3.44 x 17.54 x 29.5 in (8.75 x 44.55 x 74.94 cm)		
	Weight (approximate)	Maximum (all hard drives: front + rear,full power supply, and processor installed)	71.20 lb (32.30 kg	
		Minimum (one hard drive, single power supply, and processor installed. HDD not installed)	30.80 lb (14.00 kg)	
	Input Requirements (per power supply)	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC	
		Rated Input Current	For 1200 W Power Supply: 10 A (at 100 VAC), 4.9 A (at 200 VAC) For 750 W Power Supply: 8.9 A (at 100 VAC), 4.3 A (at 200 VAC) For 460 W Power Supply: 5.5 A (at 100 VAC), 2.6 A (at 200 VAC)	
		Rated Input Frequency	50 to 60 Hz	
		Rated Input Power	For 1200 W Power Supply: 930 W (at 100 VAC), 1348 W (at 200 VAC) For 750 W Power Supply: 857 W (at 100 VAC), 824 W (at 200 VAC) For 460 W Power Supply: 526 W (at 100 VAC),	



Technical Specifications

		505 W (at 200 VAC)
BTU Rating	Maximum	For 1200 W Power Supply: 3530 BTU/hr (at 100 VAC), 4600 BTU/hr (at 200 VAC) For 750 W Power Supply: 2925 BTU/hr (at 100 VAC), 2812 BTU/hr (at 200 VAC) For 460 W Power Supply: 1794 BTU/hr (at 100 VAC), 1725 BTU/hr (at 200 VAC)
Power Supply Output (per power supply)	Rated Steady-State Power	For 1200 W Power Supply: 800 W (at 100 VAC), 900 W (at 120 VAC), 1200 W (at 200 to 240 VAC) For 750 W Power Supply: 750 W (at 100 to 120 VAC), 750 W (at 200 to 240 VAC) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)
	Maximum Peak Power	For 1200 W Power Supply: 800 W (at 100 VAC), 900 W (at 120 VAC), 1200 W (at 200 to 240 VAC) For 750 W Power Supply: 750 W (at 100 to 120 VAC), 750 W (at 200 to 240 VAC) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)
System Inlet Temperature	Operating	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity (non-condensing)	Operating	10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

Technical Specifications

	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).	
Listed are the declared A-Weighted sound power levels declared average bystander position A-Weighted sound levels (LpAm) when the product is operating in a 23°C a environment. Noise emissions were measured in accord 7779 (ECMA 74) and declared in accordance with ISO 9 109). NOTE: The Listed sound levels apply to standard shipping configurations. Additional options may result in increase		der position A-Weighted sound pressure product is operating in a 23°C ambient sions were measured in accordance with ISO clared in accordance with ISO 9296 (ECMA	
	Idle 2P Redundant SKU		
	LWAd	5.4 B	
	LpAm	38 dBA	
	Operating	2P SKU	
	LWAd	5.7 B	
	LpAm	41 dBA	
	NOTE: The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.		
Emissions	FCC Rating	Class A	
Classification (EMC)	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS14336-1; CNS13438; GB4943; GB9254; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1	
	NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements. NOTE: The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.		

HP iLO 4 On System Management **Architecture** PCI Express based health and remote management ASIC **Processor** Embedded ARM processor core operating at 400MHz Upgradeability Firmware upgradeable via Flash ROM Video Support 1920 x 1200 (16 bpp) DVR max resolution **Interfaces** HP iLO Dedicated Network connection (10/100/1000 Mb/s) on rack, tower and SL systems HP iLO Shared Network connection (10/100/1000 Mb/s) on rack, tower and SL systems HP iLO network connection to blades (100 Mb/s) to Onboard Administrator (with 10/100/1000 Mb/s uplink) on blade systems Memory 16 MB Flash 256 MB DDR 3 with ECC (112 MB after ECC and video) **Operating System** For information on HP's Certified and Supported ProLiant Servers for

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Support

our OS Support Site at: http://www.hp.com/go/ossupport

Client System Support For information on Client System Support, please visit the HP iLO

OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from HP, please visit

Feature Comparison Site at: www.hp.com/go/compareilo

Client Browser Support Microsoft Internet Explorer 9



Technical Specifications

NOTE: For customers using Protected Mode, please use the Java

based version of Integrated Remote Console.

Microsoft Internet Explorer 8

NOTE: For customers using Protected Mode, please use the Java

based version of Integrated Remote Console.

Microsoft Internet Explorer 7

Firefox Extended Support Release (ESR) 10 (on supported Windows

and Linux systems

Firefox 3.6 (on supported Windows and Linux systems)

Command Line

Support

Secure Shell and serial port access

Secure Socket Layer Secure Shell version 2

Security Advanced Encryption Standard (AES) and Triple Data Encryption

Standard (3DES) on browser, CLP and XML scripting interface

AES encryption of video RC4 encryption of video

Directory Support

Services

Active Directory v1.0 (Windows 2003)

HP ProLiant iLO 4 Management Controller Driver Package **Driver Support** Management protocols SNMP, IPMI 2.0 (system and LAN interface), DMTF Systems

supported

Management Architecture for Server Hardware Command Line Protocol

(SMASH CLP), HP RIBCL XML

HP Ethernet 1Gb 4-port Network Interface

366i Adapter

Compatibility

10Base-T/100Base-TX/1000Base-TX

IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS

IEEE 802.3az - Energy Efficient Ethernet (EEE)

Data Transfer Method

PCI Express v 2.0, 5.0 GT/s, two lanes (x2) 1350 Powerville

Controller

Number of Ports

Network Transfer Rate 10Base-T (Half-Duplex) 10 Mb/s per port, 40 Mb/s combined

> 10Base-T (Full-Duplex) 20 Mb/s per port, 80 Mb/s combined 100Base-TX (Half-100 Mb/s per port, 400 Mb/s combined

Duplex)

100Base-TX (Full-

200 Mb/s per port, 800 Mb/s combined

Duplex)

1000Base-TX (Half and

Full-Duplex)

1000Mb/s per port, 4000 Mb/s combined

Connector Two RJ-45

Cable Support 10Base-T Categories 3, 4 or 5 UTP;

up to 328 ft (100 m)

10/100/1000Base-TX Category 5 or higher UTP;

up to 328 ft (100 m)

StoreEasy	1830
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System Unit Dimensions (H x W x SFF Drives: 3.44 x 17.54 x 27.50 in (8.73 x 44.55 x 69.85 cm)



Technical Specifications

Weight (approximate)	Maximum (all hard drives, power supply, and processor installed)	61.00 lb (27.66 kg)
	Minimum (one SFF hard drive, power supply, and processor installed, ODD not installed)	41.0 lb (18.59 kg)
Input Requirements (per power supply)	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC
	Rated Input Current	For 1200 W Power Supply: 10 A (at 100 VAC), 4.9 A (at 200 VAC) For 750 W Power Supply: 8.9 A (at 100 VAC), 4.3 A (at 200 VAC) For 460 W Power Supply: 5.5 A (at 100 VAC), 2.6 A (at 200 VAC)
	Rated Input Frequency	50 to 60 Hz
	Rated Input Power	For 1200 W Power Supply: 930 W (at 100 VAC), 1348 W (at 200 VAC) For 750 W Power Supply: 857 W (at 100 VAC), 824 W (at 200 VAC) For 460 W Power Supply: 526 W (at 100 VAC), 505 W (at 200 VAC)
BTU Rating	Maximum	For 1200 W Power Supply: 3530 BTU/hr (at 100 VAC), 4600 BTU/hr (at 200 VAC) For 750 W Power Supply: 2925 BTU/hr (at 100 VAC), 2812 BTU/hr (at 200 VAC) For 460 W Power Supply: 1794 BTU/hr (at 100 VAC), 1725 BTU/hr (at 200 VAC)
Power Supply Output (per power supply)	Rated Steady-State Power	For 1200 W Power Supply: 800 W (at 100 VAC), 900 W (at 120 VAC), 1200 W (at 200 to 240 VAC) For 750 W Power Supply: 750 W (at 100 to 120 VAC), 750 W (at 200 to 240 VAC) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)
	Maximum Peak Power	For 1200 W Power Supply: 800 W (at 100 VAC), 900 W (at 120 VAC), 1200 W (at 200 to 240 VAC) For 750 W Power Supply:

Technical Specifications

-		
		750 W (at 200 to 240 VAC) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)
System Inlet Temperature	Operating	° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity (non-condensing)	Operating	10% to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.
	Non-operating	5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
Acoustic Noise	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. NOTE: The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.	
	Idle	
	LWAd	4.1 B
	LpAm	25 dBA
	Operating	
	LWAd	4.3 B
	LpAm	27 dBA
Emissions	FCC Rating	Class A
Classification (EMC)	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1

Technical Specifications

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

NOTE: The Listed sound levels apply to standard shipping

configurations. Additional options may result in increased sound levels.

HP iLO 4 On System Management

Architecture PCI Express based health and remote management ASIC **Processor** Embedded ARM processor core operating at 400MHz

Upgradeability Firmware upgradeable via Flash ROM Video Support 1920 x 1200 (16 bpp) DVR max resolution

Interfaces HP iLO Dedicated Network connection (10/100/1000 Mb/s) on rack,

tower and SL systems

HP iLO Shared Network connection (10/100/1000 Mb/s) on rack, tower

and SL systems

HP iLO network connection to blades (100 Mb/s) to Onboard Administrator (with 10/100/1000 Mb/s uplink) on blade systems

Memory 16 MB Flash

256 MB DDR 3 with ECC (112 MB after ECC and video)

Operating System Support

For information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from HP, please visit

our OS Support Site at: http://www.hp.com/go/ossupport

Client System Support For information on Client System Support, please visit the HP iLO

Feature Comparison Site at: www.hp.com/go/compareilo

Client Browser Support Microsoft Internet Explorer 9

NOTE: For customers using Protected Mode, please use the Java

based version of Integrated Remote Console.

Microsoft Internet Explorer 8

NOTE: For customers using Protected Mode, please use the Java

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Microsoft Internet Explorer 7

Firefox Extended Support Release (ESR) 10 (on supported Windows

and Linux systems

Firefox 3.6 (on supported Windows and Linux systems)

Command Line

Secure Shell and serial port access

Support

Secure Socket Laver

Secure Shell version 2

Security Advanced Encryption Standard (AES) and Triple Data Encryption

Standard (3DES) on browser, CLP and XML scripting interface

AES encryption of video RC4 encryption of video

Directory Support

Services

Active Directory v1.0 (Windows 2003)

Driver Support HP ProLiant iLO 4 Management Controller Driver Package

Management protocols SNMP, IPMI 2.0 (system and LAN interface), DMTF Systems supported

Management Architecture for Server Hardware Command Line Protocol

(SMASH CLP), HP RIBCL XML



Technical Specifications

HP Ethernet 1Gb 4-port HP Flexible Network 331FLR Adapter

Technology

Network Interface Compatibility

HP Flexible Network Technology consists of replaceable network solutions to meet the customers require now or in the future.

10Base-T/100Base-TX/1000Base-TX

IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3ad 1000Base-TX IEEE 802.1p 100Base-TX IEEE 802.1q 100Base-TX

Data Transfer Method

PCI Express, four lanes (x4)

Controller

BCM5719

Network Transfer Rate 10Base-T (Half-Duplex)

10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-100 Mb/s

Duplex)

100Base-TX (Full-

200 Mb/s

10 Mb/s

Duplex)

1000Base-TX (Half and

2000 Mb/s

Full-Duplex) Two RJ-45

Cable Support

Connector

10Base-T

Categories 3, 4 or 5 UTP;

up to 328 ft (100 m)

100Base-TX

Category 5 or higher UTP:

up to 328 ft (100 m)

1000BaseTX

Category 5 or higher UTP;

up to 328 ft (100 m)

Environment-friendly Products and Approach

End-of-life Management and Recycling

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: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in 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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For hard drives, 1 GB = 1 billion bytes. Actual formatted capacity is less.

