QuickSpecs

Overview

HPE StoreEasy 1000 Storage

Whether you are a small, medium, or large business with a branch or remote offices, storage worries should be the last thing on your mind. As you work with your large number of users, you need to accommodate their demands to store and access growing volumes of files such as business documents, images, audio files, and videos. You need efficient file storage that is secure, yet easy to manage.

Hewlett Packard Enterprise is here to help. With HPE StoreEasy 1000 Storage —a new breed of optimized, efficient, secure, and highly available storage systems—you stand to gain a lot. The StoreEasy 1000 product family is designed for small businesses, branch offices, and workgroup environments.

The StoreEasy 1000 product family caters to your unique storage needs. They integrate easily into new and existing environments offering your storage administrators and IT generalists a straightforward, consistent management experience.

With built-in security, your data remains well protected and available to your users when and where they want to access it. It also enables you to install and run endpoint protection such as antivirus on the system itself, reducing the cost and complexity of connecting an external endpoint protection server. With features including constant health monitoring, mirrored OS disks, advanced memory protection, reliable software support, and more, you can provide users with a highly available solution that keeps their data ready and highly available. Not to mention the support and expertise our highly skilled Hewlett Packard Enterprise certified professionals can offer.

What's New

• Brand new models – HPE StoreEasy 1650 Expanded Storage

Models

HPE StoreEasy 1450 Storage

HPE StoreEasy 1450 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. All StoreEasy 1450 models have Windows Storage Server 2012 R2, Standard Edition, pre-installed from the factory on the four internal LFF drives configured as RAID6. The StoreEasy 1450 is built on a ProLiant DL160 Gen 9 server and includes a rail kit and cable management arm.

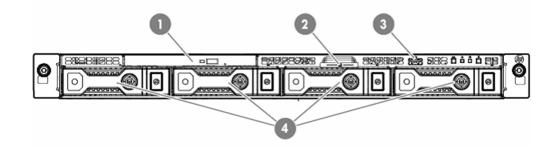
HP StoreEasy 1450 Storage

NOTE: This model has no drives pre-configured - at least four drives of the same type/capacity, 100GB or greater, must be ordered for pre-installation of OS in the factory. The OS is not a field installable option.

HP StoreEasy 1450 4TB SATA StorageK2R12A(4 x 1TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)K2R13AHP StoreEasy 1450 8TB SATA StorageK2R13A(4 x 2TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)K2R14AHP StoreEasy 1450 16TB SATA StorageK2R14A



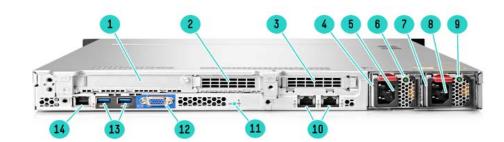
K2R11A



Front View

- 1. Optical Drive (optional)
- 2. Serial label pull tab

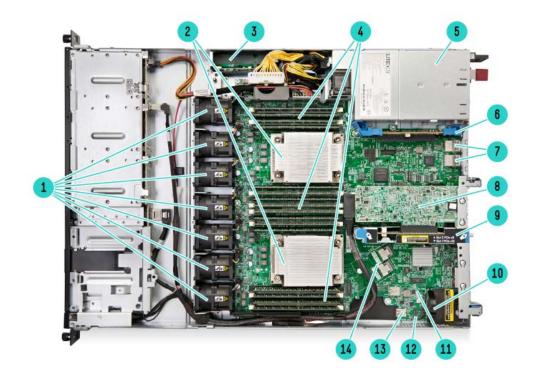
- 3. USB 2.0 connector
- 4. LFF Drive Bays



Rear view

- 1. PCle3 slot 1 (primary, associated with processor 1)
- PCIe3 slot 2 (primary, associated with processor 1 occupied 9. by Smart Array P440)
- 3. PCle3 slot 3 (secondary, associated with processor 2)
- 4. Power supply 1 bay
- 5. Power supply 1 Power Connector (Optional)
- 6. Power supply 1 LED (Optional)
- 7. Power supply 2 bay

- 8. Power supply 2 power connector
 - Power Supply 2 LED
- 10. Embedded 2x1GbE network adapter
- 11. Unit ID LED
- 12. Video Connector
- 13. USB3.0 connectors
- 14. Dedicated iLO connector



Internal View

- 1. Hot Swappable fans (up to 7)
- 2. Processor heat sinks (processors with HPE Smart Sockets placed below heat sinks)
- 3. HPE Smart Storage Battery
- 4. DDR4 DIMM slots (up to 16)
- 5. Entry level power supply bay (1x900W shown)
- 6. Connector for secondary PCIe riser (associated with CPU2) 13.
- 7. Embedded 2x1GbE network adapter

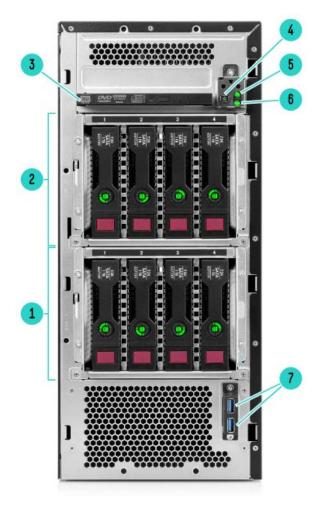
- 8. HPE Smart Array P440 controller
- 9. Primary PCIe riser (2 PCIe3 slots associated with CPU1)
- 10. Dedicated iLO module connector
- 11. MicroSD card slot
- 12. Internal SATA ports (one for ODD and another one reserved)
 - . Internal USB 3.0 connector
- 14. Embedded B140i SATA controller (not used in StoreEasy 1450)

HPE StoreEasy 1550 Storage

HPE StoreEasy 1550 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. All StoreEasy 1550 models have Windows Storage Server 2012 R2, Standard Edition, pre-installed from the factory on the four internal LFF drives configured as RAID6. The StoreEasy 1550 is built on a ProLiant ML110 Gen 9 Server.

HP StoreEasy 1550 StorageK2R62ANOTE: This model has no drives pre-configured - at least four drives of the same type/capacity, 100GB or
greater, must be ordered for pre-installation of OS in the factory. The OS is not a field installable option.K2R63AHP StoreEasy 1550 4TB SATA StorageK2R63A(4 x 1TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)K2R64AHP StoreEasy 1550 8TB SATA StorageK2R64A(4 x 2TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)K2R65AHP StoreEasy 1550 16TB SATA StorageK2R65A(4 x 4TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)Page 3

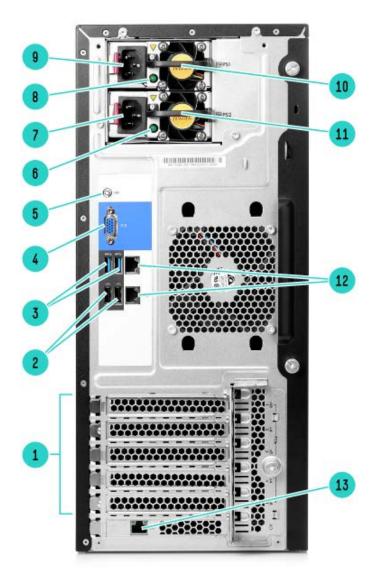
NOTE: StoreEasy 1550 product views shown below are for references purposes and do not reflect exact configuration of the product. Refer to the technical specifications section of the QuickSpecs for more details.



Front View

- 1. Drive cage
- 2. Drive cage (optional)
- 3. Optical drive (optional)
- 4. Power button/LED

- 5. Health LED
- 6. NIC status LED
- 7. USB 3.0 (2) connectors



Rear View

- 1. PCIe3 Slots (Slots 1-5)
- 2. USB 2.0 (2) connectors
- 3. USB 3.0 (2) connectors
- 4. Video connector
- 5. UID button/LED
- 6. Power supply 2 LED
- 7. Power supply 2 power connection (optional)

- 8. Power supply 1 LED
- 9. Power supply 1 power connection
- 10. Power Supply 1 bay
- 11. Power Supply 2 bay (optional)
- 12. Network RJ-45 ports (2)
- 13. HPE ML Gen9 dedicated iLO port

HPE StoreEasy 1650 Storage

HPE StoreEasy 1650 Storage products deliver high capacity and drives down your cost per GB. Six-Core processing, up to 96TB internal storage capacity, and ready for external expandability enhance this ultra-dense 2U shared storage solution for small, medium, or large IT environments. All StoreEasy 1650 models have Windows Storage Server 2012 R2, Standard Edition, pre-installed from the factory on two rear internal 120B 6G Value Endurance SFF SSDs configured as RAID1. The StoreEasy 1650 is built on a ProLiant DL380 Gen 9 Server and includes a rail kit and cable management arm.

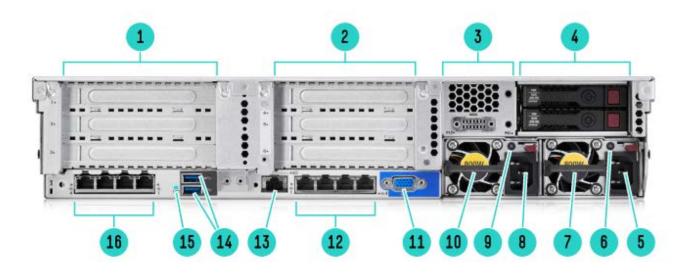
HP StoreEasy 1650 Storage	K2R15A
(12 open LFF HDD slots in front and 2 x 120GB 6G Value Endurance SFF SSDs in rear with pre-installed OS)	
HP StoreEasy 1650 16TB SAS Storage	K2R16A
(8 x 2TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 4 open LFF slots and 2 x 120GB 6G Value Endurance SFF SSDs in rear with pre-installed OS)	
HP StoreEasy 1650 32TB SAS Storage	K2R17A
(8 x 4TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 4 open LFF slots and 2 x 120GB 6G Value Endurance SFF SSDs in rear with pre-installed OS)	
HP StoreEasy 1650 48TB SAS Storage	K2R18A
(8 x 6TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 4 open LFF slots and 2 x 120GB 6G Value Endurance SFF SSDs in rear with pre-installed OS)	
HP StoreEasy 1650 90TB SATA Storage	MOS97A
(15 x 6TB 6G 7.2K RPM LFF MDL SATA HDDs pre-installed, 12 HDDs in front slots, 3 HDDs in rear slots (with pre-installed OS on two of the rear HDDs in a RAID 1 configuration. This SKU also comes with 48GB of memory (3 x 16GB RDIMMS). All other specifications are the same as other StoreEasy 1650 SKUs	



Front View

- 1. Health LED
- 2. Power On/Standby button and system power LED
- 3. NIC status LED

- 4. UID button/LED
- 5. 12 LFF Drive Bay



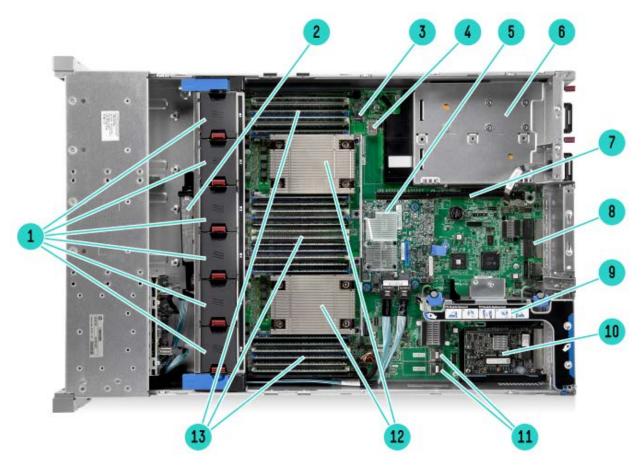
11.

12.

Rear view*

- PCI Slots (Slots 1-3 top to bottom, riser shipped standard)
 PCI Slots (Slots 4-6 top to bottom, requires optional second
- riser card and second processor; not available on SE1650 10. 90TB SKU# MOS97A)
- 3. Optional serial port
- 4. Rear 2 SFF drive slots (SE1650 90TB SKU# MOS97A has 3 LFF drives in rear – see Note below)
- 5. HPE Flexible Slot Power Supply bay 1 (800w shown)
- 6. Power supply Power LED
- 7. Power supply Power connection
- 8. HPE Flexible Slot Power Supply bay 2 (800w shown)

- Power supply Power LED
- Power supply Power connection
- VGA connector
- Embedded 4x1GbE Network Adapter
- 13. Dedicated iLO connector
- 14. USB 3.0 connectors (2)
- 15. Unit ID LED
- 16. Optional FlexibleLOM ports (Shown: 4x1GbE)



Internal View

- 1. Fan cage shown with 6 standard Hot-plug fans (High Performance fans optional)
- 2. HPE Smart Storage Battery
- 3. MicroSD card slot
- 4. Internal USB 3.0 connector
- 5. HPE Flexible Smart Array (P440ar)
- 6. (Under) Hot Plug redundant HPE Flexible Slot Power supplies
- 7. Connection for second (optional) riser (Required second CPU)

- 8. Embedded 4x1Gbe NIC
- 9. Primary PCIe riser, standard (Optional double wide GPU riser)
- 10. Optional Flexible LOM slot
- 11. X4 SATA ports (1 and 2)
- 12. 2 Processors, heatsink showing, with HPE Smart Socket Guide
- 13. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)

HPE StoreEasy 1650 Expanded Storage

HPE StoreEasy 1650 Expanded Storage products offers revolutionary storage density, with more than double the storage capacity of competitors for addressing bulk file storage use cases in a 2U form factor. Six-Core processing, up to 224TB internal storage capacity, and ready for external expandability enhance this ultra-dense 2U shared storage solution for small, medium, or large IT environments.

All StoreEasy 1650 Expanded models have Windows Storage Server 2012 R2, Standard Edition, pre-installed from the factory on two 120B 6G Value Endurance SFF SSDs configured as RAID1. The StoreEasy 1650 Expanded Storage is built on a Apollo 4200 Gen9 Server and includes a rail kit and cable management arm.

HP StoreEasy 1650 Expanded Storage	N9Y08A
(28 open LFF HDD slots- 24 in Front , 4 in Rear and $2 ext{ x}$ 120GB 6G Value Endurance SFF SSDs in PCIe slot with pre-installed OS)	
HP StoreEasy 1650 Expanded 32TB SAS Storage	N9Y09A
(8 x 4TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 20 open LFF slots and 2 x 120GB 6G Value Endurance SFF SSDs in PCIe slot with pre-installed OS)	
HP StoreEasy 1650 Expanded 48TB SAS Storage	N9Y10A
(8 x 6TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 20 open LFF slots and 2 x 120GB 6G Value Endurance SFF SSDs in PCIe slot with pre-installed OS)	
HP StoreEasy 1650 Expanded 64TB SAS Storage	N9Y11A
(8 x 8TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 20 open LFF slots and 2 x 120GB 6G Value Endurance SFF SSDs in PCIe slot with pre-installed OS)	

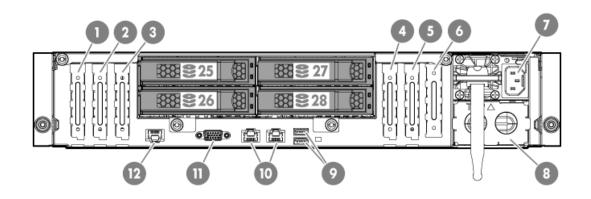


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Front View

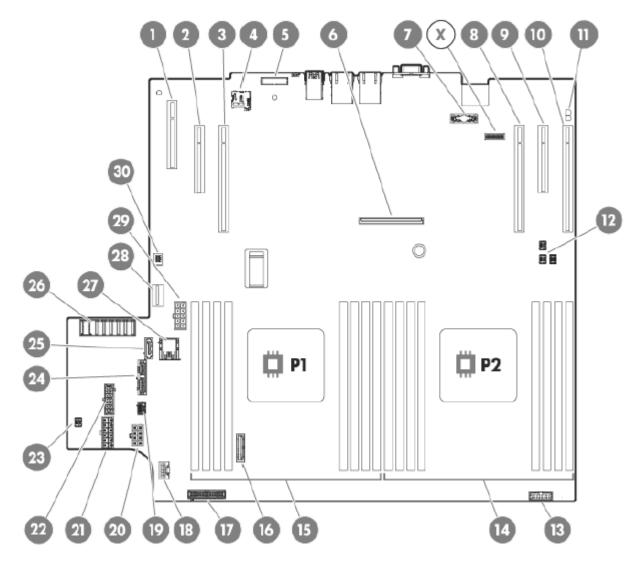
1-12.	Front row of LFF drives
13-24.	Second row of LFF Drives



Rear view

- 1. PCI Slot 7
- 2. PCI Slot 6
- 3. PCI Slot 5
- 4. Dual 120GB Value Endurance Solid State M.2
- 5. PCI Slot 1
- 6. Flexible LOM Slot
- 7. HPE Flexible Slot Power Supply bay 1
- 8. HPE Flexible Slot Power Supply bay 2 (blank shown)

- 9. USB 3.0 Ports
- 10. Embedded 2x1GbE Ethernet
- 11. Rear VGA (Video) Port
- 12. Dedicated iLO Management Port
- 25. LFF Drive number 25
- 26. LFF Drive number 26
- 27. LFF Drive number 27
- 28. LFF Drive number 28



17.

19.

Internal View

- 1. Flexible LOM Slot
- 2. PCIe3 x8 (8, 4, 1) slot 1 for low-profile, standup expansion 18. board
- 3. PCIe3 x16 (16, 8, 4, 1) slot 2 for low-profile, standup expansion board or riser cage options
- 4. microSD slot
- 5. TPM connector
- 6. HPE Flexible Smart Array Controller slot
- 7. Dedicated iLO management module connector
- 8. PCIe3 x16 (16, 8, 4, 1) slot 5 for low-profile, standup expansion board
- 9. PCIe3 x8 (8, 4, 1) slot 6 for low-profile, standup expansion 25. board
- 10. PCle3 x16 (16, 8, 4, 1) slot 7 for low-profile, standup expansion board
- 11. NMI header

- Fan signal connector
 - HPE Smart Storage Battery connector
- Rear SFF drive backplane detection connector
- 20. Fan power connector
- 21. Front drive cage 2 backplane power connector
- 22. Front drive cage 1 backplane power connector
- 23. Storage backup power connector for expansion slots 1–2
- 24. SATA 6Gb/s connector 4
 - SATA 6Gb/s connector 5
- 26. Power pass-through board connector
- 27. Internal USB 3.0 connector

HPE StoreEasy 1850 Storage

HPE StoreEasy 1850 Storage products deliver Enterprise-class performance, expandability, and flexibility. Six-Core processing, up to 24 internal SFF data drives for performance, and ready for external expandability enhance this ultra-dense 2U shared storage solution for small, medium, or large IT environments. All StoreEasy 1850 models have Windows Storage Server 2012 R2, Standard Edition, pre-installed from the factory on two rear internal 120B 6G Value Endurance SFF SSDs configured as RAID1. The StoreEasy 1850 is built on a ProLiant DL380 Gen 9 server and includes a rail kit and cable management arm.

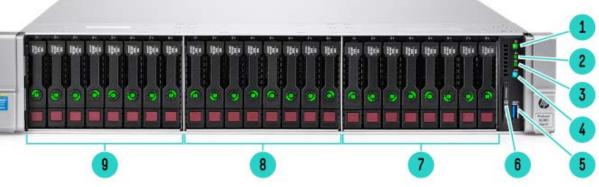
HP StoreEasy 1850 Storage	K2R19A
(24 open SFF slots in front and 2 x 120GB 6G Value Endurance SFF SSDs in rear with pre-installed OS)	
HP StoreEasy 1850 9.6TB SAS Storage	K2R20A
(8 x 1.2TB 12G 10K RPM ENT SAS SFF HDDs pre-installed, 16 open SFF slots and 2 x 120GB 6G Value Endurance SFF SSDs in rear with pre-installed OS)	
HP StoreEasy 1850 14.4TB SAS Storage	K2R21A
8 x 1.8TB 12G 10K RPM 512e SAS SFF HDDs pre-installed, 16 open SFF slots and 2 x 120GB 6G Value Endurance SFF SSDs in rear with pre-installed OS	

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Front View

- 1. 8 SFF Drive Bay 1
- 2. 8 SFF Drive Bay 2
- 3. 8 SFF Drive Bay 3
- 4. Serial label pull tab
- 5. Front USB 3.0 connector

- 6. **UID** button/LED
- 7. NIC status LED
- 8. Health LED
- 9. Power On/Standby button and system power LED



Features and Benefits

Optimized: Tailored for file storage	HPE StoreEasy 1000 Storage comes with pre-configured hardware with the latest generation storage OS for purpose-built file storage. StoreEasy installation and network configuration wizards simplify installation and prevent configuration errors for faster deployment.
	The StoreEasy Dashboard consolidates all key status information such as capacity utilization, performance, and health in a single interface and reduces the need to navigate multiple tools and interfaces for system monitoring. Low capacity warning email alerts now available to minimize disruption.
	Best practices driven storage provisioning tool discovers system storage and recommends the most efficient setup for optimum performance, optimum capacity, or a balanced configuration based on the available storage.
	StoreEasy hard drive bundles make it easier for you to buy, deploy and provision additional storage capacity over the life of the product.
Efficient: Saves you	Achieve an average of 50–60 percent space savings with granular data deduplication.
money and time	File sync and share feature enable mobile workers to access their files from anywhere. Provides corporate data controls including data encryption, data wipe, user lock screen password enforcement, file classification, and storage quotas.
	Use advanced data management to automatically improve use of resources, comply with data retention policies, and enhance protection of sensitive files.
	Consolidate multiple workloads and IT services 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 IT infrastructure services such as print, Domain Name System (DNS), and DHCP.
	Reduce your branch office WAN usage with Hosted BranchCache, automatically caching frequently accessed corporate data center files
Secure: Protect your data always	The StoreEasy 1000 Storage protects data while at rest with file system encryption and BitLocker Drive Encryption, and while it is being transferred with SMB encryption and signing.
	Use File Classification Infrastructure to dynamically identify files based on sensitivity and implement sophisticated access controls using Active Directory Rights Management Services.
	Install and run endpoint protection, such as an antivirus, on the system itself—reducing the cost and complexity of connecting to an external endpoint protection server. Prevent against data loss with Volume Shadow Copy Service online snapshots and support for agent-based backup software.
	Opt to utilize the power of LiveVault from j2 Global for easy data backup to the cloud with 7-year retention. Also, enable simplified and cost efficient compliance archiving with iTernity Compliant Archive Solution (iCAS), now validated to meet the United States Securities and Exchange Commission (SEC) 17a-4(f) requirements.

Features and Benefits

Highly Available: Prevent business and user disruption

Increases uptime with such standard features as near continuous health monitoring with HPE Active Health System, mirrored OS drives, redundant fans (not available on all models) and power, and advanced memory protection.

Confidently deploy large file systems leveraging file system online self-healing, online verification, and precise and rapid repair that massively reduces downtime from file corruption.

Take advantage of Vision Solutions Double-Take Availability software for critical data protection with real-time byte-level replication. In the event of a failure, recover the data—with a minimum of loss—from the replicated data repository. Software installation files now included with free 14-day evaluation license.

Get support from file storage experts with 3-Year Parts, 3-Year Labor, and 3-Year Onsite support with next business day response (StoreEasy 1650, 1650 E and 1850) or 3-Year Parts, 1-Year Labor, and 1-Year Onsite support with next business day response (StoreEasy 1450 and 1550). All StoreEasy products also include one year of 24x7 software telephone support for the Windows Storage Server operating system.

Operating System

- Microsoft Windows Storage Server 2012 R2 Standard Edition, with Hewlett Packard Enterprise enhanced value and unique features
 - Hewlett Packard Enterprise enhanced Initial Configuration Tasks Wizard: StoreEasy installation and network configuration wizards simplify installation and prevent network configuration errors for faster deployment.
 - The StoreEasy Dashboard consolidates all key status information such as capacity utilization, performance, and health in a single interface and reduces the need to navigate multiple tools and interfaces for system monitoring. Low capacity warning email alerts now available to minimize disruption.
 - The StoreEasy Pool Manager is a best practices driven storage provisioning tool that automatically discovers system storage and recommends the most efficient setup for optimum performance, optimum capacity, or a balanced configuration based on the available storage.
 - The StoreEasy Tools menu within Windows Server manager to access the most commonly accessed tools and tasks that an administrator uses for day-to-day management of StoreEasy. The StoreEasy Tools menu provides direct access to management of storage pools, snapshots, emails and alerts, enclosure settings, and firmware updates. It also includes access to the Deduplication Evaluation tool, storage viewer and the initial configuration task wizard.
 - Windows Storage Server 2012 R2 (WSS2012 R2) includes a robust range of file serving and storage capabilities. It addresses heterogeneous environments and it enables more efficient storage utilization. WSS2012 R2 delivers a similar level of performance and reliability as more expensive storage solutions and it offers support for both file (CIFS/SMB and NFS) and block (iSCSI) protocols, allows for a flexible mix of configurations and includes advanced data management tools. WSS2012 R2 leverages your Windows Server management skill sets and tools including Active Directory, PowerShell and System Center.
 - Extensive protocol support: SMB (2.0, 2.1, 3.0, 3.02), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI
 - SMB3 protocol: Leverage high performance continually available file shares to deliver feature-rich storage for business-critical applications and virtual servers using advanced new functionality.
 - SMB3 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 R2, 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.
 - File Server Resource Manager (FSRM): File Server Resource Manager is a set of features within the WSS2012 R2 OS that allows you to manage and classify data that is stored on file servers. File Server Resource Manager includes the following features:
 - Storage Quotas: 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.

- File screening: 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.
- 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.
- 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.
- 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.
- Data Deduplication: Data deduplication enables Windows Storage Server 2012 R2 to store more
 data in less physical space for greater storage efficiency. 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 which allows you to determine the expected savings that you would get if
 deduplication is enabled on a particular volume. The Deduplication evaluation tool supports local
 drives and mapped or unmapped remote shares.
- Work Folders: With Work Folders users can store and access work files on personal computers and devices, often referred to as bring-your-own device (BYOD), in addition to corporate PCs. Users gain a convenient location to store work files, and they can access them from anywhere. Organizations maintain control over corporate data by storing the files on centrally managed file servers, and optionally specifying user device policies such as encryption and lock-screen passwords. Work Folders can be deployed with existing deployments of Folder Redirection, Offline Files, and home folders. Work Folders stores user files in a folder on the server called a sync share. You can specify a folder that already contains user data, which enables you to adopt Work Folders without migrating servers and data or immediately phasing out your existing solution. Work folders is supported on Windows 7, Windows 8, Windows 10 and Apple iOS clients.
- Hosted Branch Cache: Using client/server architecture, Windows 7, Windows 8 or Windows 10 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.
- 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.
- 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 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.

- New VHDX Standard: Deploy larger capacity virtual storage that can grow to 64 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.
- Unlimited Client Access Licenses (CALs) included
- NOTE: Windows Storage Server 2012 R2 and Windows Server 2012 R2 are built on the same code base. Applications certified for Windows Server are expected to have the same application compatibility profile on Windows Storage Server. Windows Storage Server 2012 R2 and Windows Server 2012 have the same application frameworks, services and plumbing to support running the full breadth of Window-compatible applications. Applications that rely upon certain roles that are removed from Windows Storage Server 2012 R2, such as fax server, active directory domain controller or terminal services will not be able to leverage those roles. Independent Software Vendors (ISVs) ultimately decide what versions and editions of Windows are supported by their products and users should review ISV compatibility and support information before purchasing. StoreEasy customers should review the End User License Agreement (EULA) to see the types of applications that are permitted for installation. All versions of Windows Storage Server 2012 R2 can join Active Directory domains, but cannot be a domain controller.

Processor / Cache Memory	StoreEasy	y 1450 Sto	oreEasy 1550	StoreEasy StoreEasy 1650 E 1650		y 1650 E S	toreEasy 1850
	Intel® Xeo E5-2603v (1.6GHz/6 core/15ME Processor	3 E5- - (1.ć 8/85W) cor	el® Xeon® 2603v3 GHz/6- e/15MB/85W) ocessor	Intel® Xeon® E5-2609v3 (1.9GHz/6- core/15MB/85\) Processor	Intel® Xeor E5-2609v3 (1.9GHz/6- V core/15MB Processor	5 E (1. /85W) cc	itel® Xeon® 5-2609v3 9GHz/6- ire/15MB/85W) rocessor
Memory	Туре	DDR4 Regi	stered (RDIMI	M)			
	Maximum (by O/S license)	21	В				
		StoreEasy 1450	StoreEasy 1550	y Store	Easy 1650	StoreEasy 1650 E	StoreEasy 1850
	Standard DIMM Sockets		GB) 8GB (1 x 8 8	GB) 16GB 24	(2 x 8GB)	16GB (2 x 8GE 16	3) 16GB (2 x 8GB) 24
Network Controller		StoreEasy 1450	StoreEasy 1550	y Store	Easy 1650	StoreEasy 1650 E	StoreEasy 1850
	NIC Ports Controller	2 HPE 361i	2 Broadcom	4 5717 2- HPE	331i 4-Port	2 Embedded	4 HPE 331i 4-Por

 More information on Windows Storage Server 2012 R2 Standard Edition can be found here: http://technet.microsoft.com/en-us/library/jj643303.aspx

2-port 1GbE	port 1GbE	1GbE; optional Flex LOMs for 10GbE, 10Gb or 40Gb Infiniband	1GbEthernet 2- port 361i Adapter plus optional HPE Flexible LOM	1GbE; optional Flex LOMs for 10GbE, 10Gb or 40Gb Infiniband
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StoreEasy 1450 Expansion Slots

CPU1 PCIe riser slots	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCle 3.0	x16	x16		Full-height, half-length slot	Processor 1
	2	PCle 3.0	x16	x16		Low profile slot	Smart Array P440
CPU2 riser PCIe slots	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	3	PCIe 3.0	x16	x16		Low profile slot	Processor 2

StoreEasy 1550 Expansion Slots

Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number Form Factor Notes
5	PCle 3.0	x8	x8	Full-height, For processor 1 half-length slot
4	PCle 3.0	x4	×4	Full-height, For processor 1 half-length slot
3	PCle 3.0	x8	x8	Full-height, Smart Array half-length P440 slot
2	PCle 3.0	x4	x4	Full-height, For processor 1 half-length slot
1	PCle 3.0	x16	x16	Full-height, ¾ For processor 1 length (up to 9.5") Slot

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

NOTE: Five total expansion PCIe 3.0 slots. One PCIe 3.0 x16 (x16 speed); Two PCIe 3.0 x 8 (x8 speed); Two PCIe 3.0 x 4 (x4 speed).

StoreEasy 1650 and 1850 Expansion Slots

Primary Riser (Standard)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCle 3.0	x8	x16	7	Full-height, half-length slot	Proc 1
	2	PCle 3.0	x8	x16	10	Full-height, half-length slot	Proc 1
	3	PCIe 3.0	x8	x8	13	Half length, full height slot	Proc 1

NOTE: * Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

NOTE: ** Indicates the number of physical electrical lanes running to the connector.

NOTE: All slots support PCIe cards to 150W or more depending on card, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

Slot 2 PCIe Riser

(Optional 3-slot)	Expansion	Technolog	Bus Width	Connector	Bus	Device	Form	Notes
719073-B21	Slots #	У		Width	Number	Number	Factor	

4	PCIe 3.0	x16	x16	16	Full height, Proc 2 full length slot
5	PCIe 3.0	x16	x16	20	Full height, Proc 2 full length slot
6	PCle 3.0	x8	x8	23	Full-height, Proc 2 half-length slot

NOTE: * Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

NOTE: ** Indicates the number of physical electrical lanes running to the connector. **NOTE:** When populating the second optional riser slot, the second processor must be installed. **NOTE:** All slots support PCIe cards to 150W or more depending on card but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

NOTE: Slot 2 PCIe Riser cannot be added to StoreEasy 1650 SKU# M0S97A as the space is occupied by 2 LFF drive bays.

StoreEasy 1650 Expanded Storage Expansion Slots

Standard	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
	1	PCIe 3.0	x8	X8	Low profile	Proc 1
	2	PCIe 3.0	x16	x16	Low profile	Proc 1
	5	PCIe 3.0	x16	x16	Low Profile	Proc 2
	6	PCle 3.0	x8	x8	Low Profile	Proc 2
	7	PCIe 3.0	X16	X16	Low Profile	Proc 2

Storage Controller	StoreEasy 1450	StoreEasy 1550	StoreEasy 1650	StoreEasy 1650 E	StoreEasy 1850
Controller(s)	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	HPE Smart Array P440ar/2GB FBWC 12Gb 2- ports Int SAS Controller	HPE Flexible Smart Array P840ar/2G FIO Controller	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller
RAID	6, 60, 5, 50, 1, 10, 1 ADM, 10 ADM	6, 60, 5, 50, 1, 10, 1 ADM, 10 ADM	6, 60, 5, 50, 1, 10, 1 ADM, 10 ADM	6, 60, 5, 50, 1, 10, 1 ADM, 10 ADM	6, 60, 5, 50, 1, 10, 1 ADM, 10 ADM
Internal SAS connectors	1	1	2	2	2
External SAS connectors	None	None	None	None	None

StoreEasy 1550

StoreEasy 1650

Hard Drives					1850
Internal	(4) Four 3.5" (Large Form Factor) hot- plug bays	(4) Four 3.5" (Large Form Factor) hot-plug bays standard, up to (4) Four additional 3.5" LFF bays as an option	 (12) Twelve 3.5" (Large Form Factor) hot-plug bays in front and (2) Two 2.5" (Small Form Factor) hot-plug bays in rear (15) Fifteen 3.5" (Large Form Factor) hot-plug bays. 12 in front and 3 in rear - SKU# MOS97A only. 	(28) Twenty eight 3.5" (Large Form Factor) hot-plug bays. 24 in front and 4 in rear.	(24) 2.5" (Small Form Factor) hot-plug bays in front and (2) Two 2.5" (Small Form Factor) hot-plug bays in rear
External	Support for D2000, D3000, D6000 enclosures (requires an additional Smart Array controller than the standard SA P440)	(requires an	Support for D2000, D3000, D6000 enclosures (requires an additional Smart Array controller than the standard SA P440ar)	Support for D2000, D3000, D6000 enclosures (requires an additional Smart Array controller than the standard SA P840ar)	Support for D2000, D3000, D6000 enclosures (requires an additional Smart Array controller than the standard SA P440ar)

Maximum Storage Capacity (raw)	StoreEasy 1450	StoreEasy 1550	StoreEasy 165	0 StoreEasy 1650	E StoreEasy 1850
Internal SATA	32TB	48TB	96TB	224TB	48TB
Internal SAS	32TB	48TB	96TB	224TB	43.2TB
Internal plus External	1.568PB P440 allows 4 x 8TB internal+ 192 x 8TB externa using 16 D3600s(requires 2 P441s)	using 16	HDDs using 40 D3600s (require	TB internal+384 x 8T HDDs using 40	B HDDs internal+480 x
Power Supply	StoreEasy 1450 900W Non- Redundant/800W	StoreEasy 1550 750W CS Gold Hot Plug Power Supply	StoreEasy 1650 800 Watts Platinum, Hot Plug	StoreEasy 1650E 800 Watts Platinum, Hot Plug redundant	StoreEasy 1850 800 Watts Platinum Hot Plug

redundant

Gold Redundant (redundant

optional)

(redundant

optional)

redundant

Power Cords	StoreEasy 1450	StoreEasy 1550	StoreEasy 1650	StoreEasy 1650E	StoreEasy 1850
	One high voltage power cord (IEC C13 to C14) standard	Regional or country specific power cord required.	_	-	Two high voltage power cords (IEC C13 to C14) standard
	jumper cord is also		standard AC power	C C-13/C-14 jumper corc supply option kit. If a c web page.	
	country specific NE customers require appropriate countr	EMA power cord tha additional local pow	t allows connection er cords, they can o se see the following	er server that ships star to wall outlets in a hom check the power cord m g power cord matrix:	ne or office. If
System Fans	StoreEasy 1450 7 hot-plug redundant fans ship standard	StoreEasy 1550 2 hot-plug non redundant standard	StoreEasy 1650 6 hot-plug redundant fans ship standard	StoreEasy 1650 E 8 hot-plug redundant fans ship standard for 1 processor; 10 hot- plug redundant fans ship standard for 2 processors	StoreEasy 1850 6 hot-plug redundant fans ship standard
Form Factor	StoreEasy 1450 1U rack mount (includes rail kit and cable management arm)	StoreEasy 1550 4.5U Tower	StoreEasy 1650 2U rack mount (includes rail kit and cable management arm)	StoreEasy 1650 E 2U rack mount (includes rail kit and cable management arm)	StoreEasy 1850 2U rack mount (includes rail kit and cable management arm)
Other Feature Specifications	StoreEasy 1450 (DL http://h20195.www StoreEasy 1550 (ML http://h20195.www StoreEasy 1650 and http://h20195.www StoreEasy 1650 Expa	w2.hp.com/v2/GetE	Document.aspx?doo tml.aspx?docname : Document.aspx?doo):	cname=c04346224 e=c04545452 cname=c04346247	

NOTE: Options offered in the ProLiant servers listed above will work in the respective StoreEasy product if supported on Windows Server 2012 R2, Standard Edition. Because StoreEasy is a storage product not every possible option available in the equivalent ProLiant server is listed in the StoreEasy 1X50 QuickSpecs. Options that are shown in this document are the most common ones needed for the primary StoreEasy use model as a file storage product.

HPE Data Protector software	HPE 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 HPE Data Protector: http://www.hp.com/go/dataprotector			
LiveVault from j2 Global	HPE StoreEasy and LiveVault enables organizations to protect their critical application data and manage their long-term retention needs in the cloud. For a 30 day free trial of LiveVault go to: http://www.remotedatabackups.com/storeeasy			
Double-Take Availability from Vision Solutions	Protect your critical HPE StoreEasy data with Double-Take Availability's real-time byte-level replication. In the event of a failure, recover the data—with a minimum of loss—from the replicated data repository. For more information read the <u>Technical White Paper</u> .			
iCAS software from iTernity	Get open, flexible, and expandable long-term archiving with iTernity Compliant Archive Solution (iCAS). Together, HPE StoreEasy and iCAS are your key to legally compliant data archiving. For more information on iTernity iCAS go to: <u>http://www.iternity.com/hp-icas_en.html</u>			

These models come with factory-installed drives and the Microsoft Windows Storage Server 2012 R2 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.

HPE StoreEasy 1000 Storage products

Common Specifications	Operating System Licenses	Microsoft® Windows Storage Server 2012 R2, Standard Edition Hewlett Packard Enterprise iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License NOTE: For more information, visit: <u>http://www.hp.com/go/ilo</u>	
StoreEasy 1450 Mo	odels		
Common Specifications	Processor	(1) Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor	
	Memory	8GB (1 x 8GB Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory)	
	Storage Controller	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	
	Internal Drive	Four 3.5" (Large Form Factor) hot-plug drive bays in front	
	Support		
	Network Ports	2 x Gigabit Ethernet	
	Expansion Slots	2 x PCIe (one slot occupied by Smart Array P440)	
	Power	1 x 900W Gold Non-Redundant	
	Form Factor	1U Rack	
HP StoreEasy 1450 4TB	SATA Storage		K2R12A
(4 x 1TB 6G 7.2K RPM MI	DL SATA LFF HDDs pro	e-installed)	
HP StoreEasy 1450 8TB	SATA Storage		K2R13A
(4 x 2TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)			
HP StoreEasy 1450 16T	B SATA Storage		K2R14A
(4 x 4TB 6G 72K RPM M	DI SATA I FF HDDs pr	re-installed)	

(4 x 4TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)

StoreEasy 1550 Models

Common Specifications	Processor	(1) Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor
	Memory	8GB (1 x 8GB Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory)
	Storage Controller	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller
	Internal Drive	Four 3.5" (Large Form Factor) hot-plug drive bays in front
	Support	standard, up to four additional LFF drive bays available as an option
	Network Ports	2 x Gigabit Ethernet

Expansion Slots	5 x PCIe (one slot occupied by Smart Array P440)	
Power	1 x 750W Gold Non-Redundant	
Form Factor	4.5U Tower	
HP StoreEasy 1550 4TB SATA Storage		K2R63A
(4 x 1TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)		
HP StoreEasy 1550 8TB SATA Storage		K2R64A
(4 x 2TB 6G 7.2K RPM MDL SATA LFF HDDs pre-installed)		
HP StoreEasy 1550 16TB SATA Storage		
(4 x 4TB 6G 7.2K RPM MDL SATA LFF HDDs	pre-installed)	

StoreEasy 1650 Models

Common Specifications	Processor Memory	(1) Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor 16GB (2 x 8GB Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory) SKU# M0S97A only - 48GB (3 x 16GB Dual Rank x4 DDR4-2133 CAS-15-15 Registered Memory)
	Storage Controller	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller
	Internal Drive Support	Twelve 3.5" (Large Form Factor) hot-plug drive bays in front, Two 2.5" (Small Form Factor) hot-plug drive bays in rear occupied by OS drives SKU# MOS97A only- Twelve 3.5" (Large Form Factor) hot-plug drive bays in front, Three 3.5" (Large Form Factor) hot-plug drive bays in rear, two of which are used as OS drives
	Network Ports	4 x Gigabit Ethernet
	Expansion Slots	3 x PCle
	Power	2 x 800W Platinum Power Supply
	Form Factor	2U rack

HP StoreEasy 1650 16TB SAS Storage	K2R16A
(8 x 2TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 4 open LFF slots)	
HP StoreEasy 1650 32TB SAS Storage	K2R17A
(8 x 4TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 4 open LFF slots)	
HP StoreEasy 1650 48TB SAS Storage	K2R18A
(8 x 6TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 4 open LFF slots)	
NOTE: When adding drives to the any of the 4 open LFF slots for the models above, Hewlett Packard	
Enterprise recommends as a best practice to use all internal data drives of the same type and capacity.	
HP StoreEasy 1650 90TB SATA Storage	MOS97A
(15 x 6TB 6G 7.2K RPM LFF MDL SATA HDDs pre-installed, 12 in front and 3 in rear)	

Common	Processor	(1) Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor	
Specifications	Memory	16GB (2 x 8GB Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory)	
	Storage Controller	HPE Flexible Smart Array P840ar/2G FIO Controller	
	Internal Drive	Twenty eight 3.5" (Large Form Factor) hot-plug drive bays, Two 2.5"	
	Support	(Small Form Factor) hot-plug drive bays in PCIe slots occupied by OS drives	
	Network Ports	2 x Gigabit Ethernet	
	Expansion Slots	4 x PCle	
	Power	2 x 800W Platinum Power Supply	
	Form Factor	2U rack	
	HP StoreEasy 1650	Expanded 32TB SAS Storage	N9Y09A

(8 x 4TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 20 open LFF slots)	
HP StoreEasy 1650 Expanded 48TB SAS Storage	N9Y10A
(8 x 6TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 20 open LFF slots)	
HP StoreEasy 1650 Expanded 64TB SAS Storage	N9Y11A
(8 x 8TB 6G 7.2K RPM LFF MDL SAS HDDs pre-installed, 20 open LFF slots)	

NOTE: When adding drives to the any of the 4 open LFF slots for the models above, Hewlett Packard Enterprise recommends as best practice to use all internal data drives of the same type and capacity.

StoreEasy 1850 Models

Common Specifications	Processor	(1) Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor
	Memory	16GB (2 x 8GB Single Rank x4 DDR4-2133 CAS-15-15-15
		Registered Memory)
	Storage Controller	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS
		Controller
	Internal Drive	Twelve 3.5" (Large Form Factor) hot-plug drive bays in front, Two
	Support	2.5" (Small Form Factor) hot-plug drive bays in rear occupied by
		OS drives
	Network Ports	4 x Gigabit Ethernet
	Expansion Slots	3 x PCle
	Power	2 x 800W Platinum Power Supply
	Form Factor	2U rack

HP StoreEasy 1850 9.6TB SAS Storage

(8 x 1.2TB 12G 10K RPM ENT SAS SFF HDDs pre-installed, 16 open SFF slots)

HP StoreEasy 1850 14.4TB SAS Storage

(8 x 1.8TB 12G 10K RPM ENT SAS 512e SFF HDDs pre-installed, 16 open SFF slots)

NOTE: When adding drives to the any of the 16 open SFF slots for these models, Hewlett Packard Enterprise recommends as a best practice to use all internal data drives of the same type and capacity.

The StoreEasy 1450 and 1550 models below have no internal drives pre-installed. These models require selection of drives for factory integration.

NOTE: 4 drives of the same type and capacity must be selected for the StoreEasy 1450 or 1550 model. This model cannot ship with less than 4 drives pre-configured so that the operating system can be pre-installed. The 4 drives will be configured as RAID 6 for OS installation. Other drive types and capacities can be used in external enclosures.

K2R20A

K2R21A

The StoreEasy 1650 and 1850 models come with 2 x120GB 6G SATA Value Endurance SFF (2.5-inch) SC Solid State Disk (SSD) drives factory configured as RAID 1 with OS pre-installed (OS drives are in the two rear bays). The StoreEasy 1650 Expanded comes with 2 x 120GB SSDs configured as RAID 1 with the OS pre-installed (OS drives are on M.2 PCle in rear). The StoreEasy 1650, 1650 E and 1850 can ship with just the OS drives and no data drives. If data drives are needed select the drives for factory integration. **NOTE:** Hewlett Packard Enterprise recommends that the internal data drives for these models be the same type and capacity. The data drives don't have to be the same as the OS drives.

Choose a Base Model, then Select Hard Drives

NOTE: Options (other than drives selected as part of the configure-to-order process) ship separately and are not factory integrated.

HPE StoreEasy 1000 Storage products (Base models)

Common Specifications Operating System	Microsoft® Windows Storage Server 2012 R2,
	Standard Edition
Licenses	HPE iLO Advanced including 1yr 24x7
	Technical Support and Updates Single Server
	License
	NOTE: For more information, visit:
	http://www.hp.com/go/ilo

above

StoreEasy 1450 Storage

NOTE: This model does not include pre-configured HDDs. At least four drives of the same type/capacity, 100GB or greater, must be ordered for pre-installation of OS in the factory. 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 1450 pre-configure	ed models listed a
Drive Options	Minimum Number of Drives Required	4
	Maximum Number of Drives Allowed	4

StoreEasy 1550 Storage

NOTE: This model does not include pre-configured HDDs. A minimum of 4 HDDs of the same type and a capacity greater than 100GB 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 1550 pre-configure	ed models listed above
Drive Options	Minimum Number of Drives Required	4
	Maximum Number of Drives Allowed	8 (requires optional LFF HDD card cage)

StoreEasy 1650 Storage

NOTE: This model does not include pre-configured data drives. It does include 2 x120GB 6G SATA ValueEndurance SFF (2.5-inch) SC Solid State Disk (SSD) drives factory configured as RAID 1 with OS pre-installed(the OS drives are in the two rear SFF bays). Data drives can be added for factory integration.SpecificationsSame as the StoreEasy 1650 pre-configured models listed aboveDrive OptionsMinimum Number of Drives Required0Maximum Number of Drives Allowed12

StoreEasy 1650 Expanded Storage

NOTE: This model does not include pre-configured data drives. It does include 2 x120GB 6G SATA Value Endurance Solid State Disk (SSD) drives factory configured as RAID 1 with OS pre-installed (the OS drives are on the M.2 PCIe in rear). Data drives can be added for factory integration.

Specifications	Same as the StoreEasy 1650 E pre-con	figured models listed above
Drive Options	Minimum Number of Drives Required	0
	Maximum Number of Drives Allowed	28

K2R11A

K2R62A

K2R15A

N9Y08A

StoreEasy 1850 Storage

NOTE: This model does not include pre-configured data drives. It does include 2 x120GB 6G SATA Value Endurance SFF (2.5-inch) SC Solid State Disk (SSD) drives factory configured as RAID 1 with OS pre-installed (the OS drives are in the two rear SFF bays). Data drives can be added for factory integration.

Same as the StoreEasy 1850 pre-configured models listed above

Drive Options Minimum Number of Drives Required 0

Maximum Number of Drives Allowed 24

Options

The following options are available for both StoreEasy Pre-configured and Drive Configure-to-

Order models

NOTE: Options ship separately and are not factory integrated

NOTE: Carefully match options to your model to ensure compatibility

NOTE: When adding a second processor the memory of both the 1st processor and second processor must be the same type and capacity.

Add Another Processor

StoreEasy 1450	HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	763235-B21
StoreEasy 1650/1850	HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	719052-B21
StoreEasy 1650	HP Apollo 4200 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	803303-B21
Expanded	NOTE: A second processor can only be added to the StoreEasy 1650 Expanded CTO	
	model (sku N9Y08A) in the factory.	
	NOTE: When a second processor is ordered with the StoreEasy 1650 Expanded CTO	
	model, a redundant fan kit (sku 806562-B21) will automatically be added to the order.	
	This will increase the total number of fans in the CTO model from 8 to 10.	
	NOTE: An upgrade kit to add a second processor to the StoreEasy 1650 Expanded CTO	
	or BTO models for field installation will be available at a later date.	

Add More Memory

NOTE: Hewlett Packard Enterprise 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:** Hewlett Packard Enterprise memory from previous generation servers are not fully compatible with Smart Memory features in Gen9 Servers.

StoreEasy 1450/1550/	Registered DIMMs (RDIMMs) for E5-2600v3 Series	
1650/1650 E/1850	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21

Add a Network Adapter

StoreEasy 1450/1650/	1 Gigabit Ethernet adapters	
1650 E/1850	HP Ethernet 1Gb 4-port 366T Adapter	811546-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	
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HP Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
	HP Ethernet 10Gb 2-port 557SFP+ Adapter	788995-B21
StoreEasy	FlexibleLOM Adapters	
1650/1650 E/	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
1850	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
		Page 30

Options		
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	NOTE: Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.	
StoreEasy	InfiniBand Adapters	
1450/1650/	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA	583211-B21
1650 E/1850	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs.	

Add More Storage

HPE StoreEasy Storage products come standard with at least one Smart Array Controller that supports internal drives. **NOTE: Expansion slot availability varies by model.**

2 nd 4LFF Hot Plug Drive Cage Kit for StoreEasy 1540	HP ML110 Gen9 4LFF Hot Plug Drive Cage Kit	784584-B21
SAS Controllers for 1450/1550/1650/1650 E /1850	HPE Smart Array Controllers HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller NOTE: Not available for the StoreEasy 1650 Expanded models.	726825-B21 726903-B21
Fibre Channel HBAs and CNAs for StoreEasy 1450/1650/1850	HPE Smart Host Bus Adapters HP H241 12Gb 2-ports Ext Smart Host Bus Adapter NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows pleat http://h18006.www1.hp.com/storage/saninfrastructure/hba.html. Emulex Fibre Channel HBAs	726911-B21 se see:
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter QLogic Fibre Channel HBAs	AJ762B AJ763B C8R38A C8R39A

Options		
	HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
	HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
	Converged Network Adapter	
	HP StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
	HP StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
HPE Drives for	StoreEasy LFF Drive Bundles	
StoreEasy 1450/1550/1650	HP 32TB SAS LFF Smart Carrier 4-pack HDD Bundle NOTE: Bundle contains 4 x 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive (SKU#793703-B21)	N9Y12A
	HP StoreEasy 24TB SAS LFF(3.5in) Smart Carrier 4-pack HDD Bundle	K2R22A
	NOTE: Bundle contains 4 x HPE 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive (SKU 761477-B21)	
	HP StoreEasy 16TB SAS LFF(3.5in) Smart Carrier 4-pack HDD Bundle	E7W91A
	NOTE: Bundle contains 4 x HPE 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive (SKU 695510-B21)	
	HP StoreEasy 12TB SAS LFF(3.5in) Smart Carrier 4-pack HDD Bundle	E7W90A
	NOTE: Bundle contains 4 x HPE 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive (SKU 652766-B21)	
	HP StoreEasy 8TB SAS LFF(3.5in) Smart Carrier 4-pack HDD Bundle	E7W89A
	NOTE: Bundle contains 4 x HPE 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive (SKU 652753-B21)	
	HP StoreEasy 4TB SAS LFF(3.5in) Smart Carrier 4-pack HDD Bundle	E7W88A
	NOTE: Bundle contains 4 x HPE 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive (SKU 652753-B21)	
	SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
	HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
	HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
	HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
	SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
	HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793703-B21
	NOTE: This drive is not available for the StoreEasy 1550	

Options

HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
NOTE: This drive is not available for the StoreEasy 1550	
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-B21
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 SAS Hot Plug LFF (3.5-inch) Performance Drives	652753-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Driv	e 793671-B21
NOTE: This drive is not available for the StoreEasy 1550	
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Driv	e 793669-B21
NOTE: This drive is not evoluble for the Store Feer 1550	
NOTE: This drive is not available for the StoreEasy 1550 SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
NOTE: This drive is not available for the StoreEasy 1550	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
NOTE: This drive is not available for the StoreEasy 1550	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	628061-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
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 Drive	658071-B21
SATA Hot Plug LFF (3.5-inch) Performance Drives	000071021
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Dri	ve 793667-B21
NOTE: This drive is not available for the StoreEasy 1550	
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard	793665-B21
Drives NOTE: This drive is not available for the StoreEasy 1550	
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State	762272-B21
Drive	102272-021
NOTE: This drive is not available for the StoreEasy 1550	
NOTE: This drive is not available for the StoreEasy 1550 HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid Sta	te 762270-B21

Options

HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr	691860-B21
Wty Solid State Drive HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	
HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789147-B21
NOTE: This drive is not available for the StoreEasy 1450	
HP 240GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789137-B21
NOTE: This drive is not available for the StoreEasy 1450	
6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise	
Value G1 Solid State Drives	
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty	756660-B21
G1 Solid State Drive HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty	756639-B21
G1 Solid State Drive	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756624-B21
6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise	
Value M1	
Solid State Drives	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764945-B21
NOTE: This drive is not available for the StoreEasy 1550	
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764943-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764941-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty	764939-B21
M1 Solid State Drive 6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr	757342-B21
Wty Solid State Drive	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Conveter Enterprise Value 3yr Wty Solid State Drive	739900-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty	718183-B21
Solid State Drive HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value	739890-B21
3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty	718177-B21
TIE 24000 00 SATA value Endurance LEE 3.3-III SC Enterprise value Syl Wiy	
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Options		
	Solid State Drive 6G SATA Hot Plug LFF (3.5-inch) Enterprise Light G1 Solid State Drives HP 960GB 6G SATA Light Endurance LFF 3.5-in SC Converter ENT Light 3yr Wty G1 Solid State Drive	756604-B21
HPE Drives for StoreEasy 1650 Expanded	HP StoreEasy 8TB SAS LFF (3.5in) Low profile 4-pack HDD Bundle NOTE: Bundle contains 4 x HPE 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU# 797279-B21)	N9Y58A
	HP StoreEasy 16TB SAS LFF (3.5in) Low profile 4-pack HDD Bundle NOTE: Bundle contains 4 x HPE 4TB 6G SAS 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU# 797267-B21)	N9Y43A
	HP StoreEasy 24TB SAS LFF (3.5in) Low profile 4-pack HDD Bundle NOTE: Bundle contains 4 x HPE 6TB 6G SAS 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU# 797263-B21)	N9Y44A
	HP StoreEasy 32TB SAS LFF (3.5in) Low profile 4-pack HDD Bundle NOTE: Bundle contains 4 x HPE 8TB 6G SAS 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU# 805337-B21)	N9Y45A
	HP StoreEasy 32TB SATA LFF (3.5in) Low profile 4-pack HDD NOTE: Bundle contains 4 x HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) Low Profile Midline 1yr Warranty Hard Drive (SKU# 805334-B21)	N9Y46A
HPE Drives for StoreEasy 1850	StoreEasy SFF Drive Bundles	
	HP StoreEasy 7.2TB SAS SFF(2.5in) Smart Carrier 4-pack HDD Bundle	K2R23A
	NOTE: Bundle contains $4 \times HPE$ 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive (SKU 791034-B21)	
	HP StoreEasy 4.8TB SAS SFF(2.5in) Smart Carrier 4-pack HDD Bundle	E7W93A
	NOTE: Bundle contains 4 x HPE 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive (SKU 718162-B21)	
	HP StoreEasy 3.6TB SAS SFF(2.5in) Smart Carrier 4-pack HDD Bundle	E7W92A
	NOTE: Bundle contains 4 x HPE 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive (SKU 652589-B21)	
	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
	HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	791034-B21 781518-B21 718162-B21
	Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785069-B21 652589-B21 748387-B21 759212-B21

Options

HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
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 Drive	652745-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline fyr Warranty Hard Drive	655708-B21
	033700-021
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2	779176-B21
Solid State Drive	770170 001
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779172-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2	779168-B21
Solid State Drive	
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2	779164-B21
Solid State Drive	
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr	691868-B21
Wty Solid State Drive	
HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr	691866-B21
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	Wty Solid State Drive HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr	691864-B21
	Wty Solid State Drive HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
	6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
	HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	757339-B21
	HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717973-B21
	HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21
	HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21
	HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739888-B21
	HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717969-B21
	6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value G1 Solid State Dr	ives
	HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756657-B21
	HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756636-B21
	HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756621-B21
	6G SATA Hot Plug SFF (2.5-inch) Enterprise Light G1 Solid State Drives	
	HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive	756601-B21
	6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1 Solid State Dr	ives
	HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764929-B21
	HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764927-B21
	HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764925-B21
	HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764923-B21
	6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	
	HP 240GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789137-B21 789147-B21
D3000 or D6000 Disk Enclosures	StoreEasy 1000 products support all of the D3000 or D6000 Disk Enclosure products for external capacity expansion. A Smart Array with external ports must be added to the StoreEasy 1450, 1550, 1650, 1650 E and 1850 to add external Disk Enclosures. (See the D3000 or D6000 Disk Enclosure QuickSpecs for more information)	

Options

StoreEasy 1450 StoreEasy 1550) come standard with one power supply. Add a second power supply for redundancy. HP 800W Gold (Redundant)/900W (Non-Redundant) AC Power Input Module HP 750W Common Slot Gold Hot Plug Power Supply Kit		
StoreEasy 1450 I/O Expansion Option	HP DL160 Gen9 Low Profile PCIe CPU2 Riser Kit NOTE: CPU 2 is required if this riser is to be installed, enables one PCIe3 slot.	725586-B21	
StoreEasy 1650 and 1850 I/O Expansion Option	HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit	719073-B21	
	NOTE: This is for slot 2 and supports double wide GPGPUs. Slot2: 2x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL.		
StoreEasy System Recovery DVD	HP StoreEasy XX50 Recovery Software Media Kit	P4A92A	
	The HPE StoreEasy XX50 Recovery Software Media Kit contains a System Recovery DVD that is used to re-install the factory operating system image. Booting the system from the System Recovery DVD will restore the operating system image and logical drive to the factory default state. This enables recovery of the system if all other means to boot the system fail. Refer to the StoreEasy 1000 Administrator Guide for more information on performing a System Recovery.		
	NOTE: If desired the StoreEasy XX50 Recovery Software can be downloaded from the Hewlett Packard Enterprise Software Depot at no charge, so that the user can create their own System Recovery DVD or System Recovery USB flash drive. The Recovery Software is available here: https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNu mber=P4A92-11001		
	NOTE: For more information on how to perform a system recovery on a StoreEasy 1X50 refer to the StoreEasy 1000 Administrator's Guide. The guide can be downloaded from <u>http://www.hp.com/support.</u> Search for the StoreEasy product model in the drivers and download section.		
	NOTE: All data on the original operating system logical drive is erased during the System Recovery process. Back up any data on the operating system drives before performing the System Recovery if possible. NOTE: While the System Recovery process makes every attempt to preserve the existing data volumes, you should have a backup of your data before recovering the system.		

Add Optical Drives			
StoreEasy 1450/1550	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21	
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21	

Options

HPE Security

488069-B21

HP Trusted Platform Module Option

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® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Storage Server® 2012 R2. 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 StoreEasy running Windows Storage Server 2012 R2 has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: http://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.

Service and Support, HPE Care Pack, and Warranty Information (New Models)

Warranty

StoreEasy 1650, StoreEasy 1650 E and StoreEasy 1850 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). StoreEasy 1450 and 1550 Storage products come with a standard 3-1-1 warranty (3 years parts exchange, 1 year labor and 1 year onsite, next business day response). Software media is warranted to be free of physical defect for a period of 90 days from delivery.

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

Services Included with	One year of Hewlett Packard Enterprise Software Support for the Windows Storage Server OS, standard
the Product	9x5 business hours (software advisory and remedial software telephone support, and media and documentation distribution service).

Service and Support	Services to accelerate time to results			
	Hewlett Packard Enterprise Storage Services bring you a rich portfolio of consulting and support services designed to add value to our core storage products and solutions. We have the know-how and experience to put storage technology to work for you. We work closely with you as your strategic partner, leveraging our full services portfolio to make sure that everything works to optimize your enterprise.			
Choose from services aligned to our storage product offerings and lifecycle. From mission-c services to innovative web-based remote support, you choose the precise level of attention your business demands.				
Discover, plan, and design	Choose from a rich portfolio of services to make the most of HPE StoreEasy Storage, so you can efficiently and affordably consolidate, manage, and extract value from unstructured data.			
	Hewlett Packard Enterprise Services can help you discover needs and create a plan for simplifying the environment, reducing risk, and maximizing your storage investments			
	HPE Backup Recovery Efficiency Analysis - Assessment of how efficiently backup components are being used as the amount of data to be backed up continues to grow exponentially via analysis intelligence and a snapshot of your current backup environment. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8490ENW.pdf			
	HPE Backup Recovery Impact Analysis - Focus placed on service requirements and design as the key to success for gaining a clear understanding of the role of increasingly diverse data protection strategies. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-1175ENW.pdf			
	HPE Backup Recovery Modernization - Initial discovery, interviews, reference architecture design, proposal content development, vendor grading, and final recommendations carried out so as to require minimal resources and locations on your part. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-1199ENW.pdf			
	HPE Storage Cloud Design Service - Build a scalable, low-cost enterprise storage environment with inherent cloud benefits to meet big data needs.			

Deploy and integrate We can help you configure, set up, and efficiently use your HPE StoreEasy Storage, as well as help

Service and Support, HPE Care Pack, and Warranty Information (New Models)

	used across backup, replication, and archiving needs.
	HPE StoreEasy 1000/3000 Storage S Installation and Startup Service -Expert system installation and setup by a Hewlett Packard Enterprise technical specialist designed to reduce implementation time and cost, with your basic questions about the service answered during the included orientation session. http://h20195.www2.hp.com/v2/GetDocument.aspx?cc=us&doclang=EN_US&docname=4AA2-
	6112ENW&doctype=data%20sheet&lc=en&searchquery=&jumpid=reg_r1002_usen_c-001_
	<u>title_r0004</u>
	HPE Storage Data Migration Services - End-to-end data migration service providing seamless discovery, assessment, planning, and design, completely customizable to your organization's storage area network or network attached storage environment and using innovative software to help you migrate to Hewlett Packard Enterprise storage quickly and efficiently. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-0774ENW.pdf
	HPE Storage and Data Consultant Residency Service - Strategic augmentation of your current environment with Hewlett Packard Enterprise resources who become your trusted advisor to provide answers that are right for your storage and backup environment. <u>http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-9481ENW.pdf</u>
	HPE Proactive Select - A flexible way to purchase services to fit your environment with an extensive menu of Hewlett Packard Enterprise Proactive Select event and technical services, such as onsite firmware upgrades, health checks, assessments, and education. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENW.pdf
Operate and support	Choose the right support to maximize uptime, free up your resources, and achieve improved value-as you get the most out of the existing IT assets while accelerating time-to-revenue.
	HPE Proactive Care 24x7 - Hardware and software support services designed specifically for your technology with rapid access to Advanced Solution Center Specialists plus firmware and software management and best practice advice http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf
	HPE Proactive Care Personalized Support - An option-if you have HPE Proactive Care- to bring increased personalization of the Proactive Care support experience through the assignment of an Account Service Manager (ASM) who provides IT best practice advice to help address IT issues and projects. <u>http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-3446ENW.pdf</u>
	HPE Support Plus 24 - Support for environments where proactive help from Hewlett Packard Enterprise is not required, with 24x7 hardware and software support onsite that includes third-party support with a maximum four-hour onsite response. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6638EN.pdf
	HPE Education Services - Comprehensive training for new, as well as experienced, storage administrators designed to expand your skills and keep you up to speed with the latest storage and virtualization technology from HPE Storage. http://education.hp.com/curr-storsan.htm

Service and Support, HPE Care Pack, and Warranty Information (New Models)

Optimized Care - Delivers the highest levels of performance and stability through deployment and proactive management practices	Choose from three levels of operate and support care HPE Proactive Care 24x7-Plus, 20 credits per year Additional options - HPE Proactive Care Personalized Support (once per Proactive Care support new environment), an additional day of Hewlett Packard Enterprise Personalized Support, and 10 additional HPE Proactive Select credits per year		
Standard Care- maintains high level of uptime, along with expert help to cut the cost and complexity of implementation and supportHPE Proactive Care 24x7-Plus, 10 credits per year Additional options - HPE Proactive Care Personalized Support (once per Proactive Care sup environment), an additional day of HPE Personalized Support, and 10 additional HPE Proactive credits per year			
Basic Care-MinimumSupport Plus 24- Plus, 10 credits per yearrecommended supportAdditional options - 10 HPE Proactive Select credits per year			
Remote Support Automation	HPE Insight Remote Support-Available at no additional cost to all warranty, HPE Care Pack Service and service agreement customers, uses proven technology to deliver secure, reliable 24x7 remote monitoring, diagnosis and problem resolution. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-4676ENW.pdf http://h18004.www1.hp.com/products/servers/management/insight-remote- support/overview.html		
For more information	 http://www.hp.com/services/storage To learn more on HPE Storage Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner HPE Care Pack Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners: Services for customers purchasing from Hewlett Packard Enterprise or an enterprise reseller are quoted using Hewlett Packard Enterprise order configuration tools. Customers purchasing from a commercial reseller can find HPE Care Pack Services at http://www.hp.com/go/lookuptool 		

Memory

See the ProLiant Gen 9 QuickSpecs for information on memory configurations.

StoreEasy 1450 (DL160 Gen 9): http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04346224

StoreEasy 1550 (ML110 Gen 9): http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04545445

StoreEasy 1650 and 1850 (DL380 Gen 9): http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04346247

StoreEasy 1650 Expanded (Apollo Gen 9): http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04616495

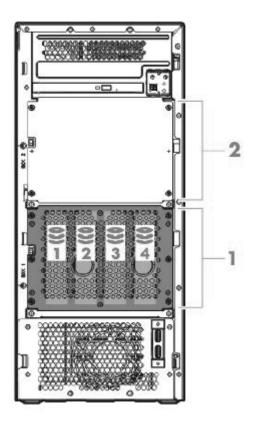
Storage

StoreEasy 1450



4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drives Bays

StoreEasy 1550

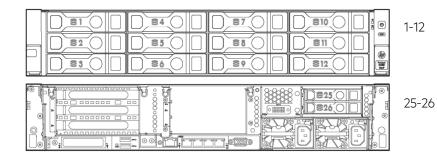


1-4

 $4 \times LFF$ SATA/SAS/SSD Hot Pluggable Hard Drives Bays

Storage

StoreEasy 1650 (12 LFF HDD in Front, 2 SFF in Rear)



12 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays

2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays (StoreEasy 1650 90TB SATA SKU# MOS97A has three LFF Hard Drive Bays in rear – not shown)

StoreEasy 1850

1 2 3 4 5 6 7 8 9 9 1	1-24
	25-26

- 24 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays
- 2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays

StoreEasy 1450	Dimensions (H x W x D)	4 LFF - 1.7 x 17.1 x 2	23.9 inches (4.29 x 43.46 x 60.76 cm)
	Weight (approximate)	Maximum: (all hard drives, power supplies, and processors installed)	33.04 lb (15kg)
		Minimum: (one hard drive, power supply, and processor installed)	22.03 lb (10kg)
	Input Requirements	Rated Line Voltage	100 to 240 VAC
	for Standard 460W PSU, see power	Rated Input Current	For 550W Power Supply: 6.7 A (at 100 VAC) 3.3 A (at 100 VAC)
	specifications tables for detail on 460W, 750W and	Rated Input Frequency	47 to 63 Hz
	1200W power supplies)	Rated Input Power	For 550 W Power Supply: < 670 W (at 100 VAC), < 660 W (at 200 VAC),
	BTU Rating	Maximum	For 550 W Power Supply: 2201 BTU/hr (at 100 VAC), 2153 BTU/hr (at 200 VAC)
	Specifications		rstem power ratings use the Power Advisor which is available via the online : http://www.hp.com/go/proliant-energy-efficient or
			m/go/hppoweradvisor - Click on the system of interest. Example: DL160
			istructions of the next screens.
	Power Supply	Rated Steady-	For 550 W Power Supply:
	Output	State Power	550 W (at 100 VAC),
		Maximum Peak Power	550 W (at 200 VAC), For 550 W Power Supply: 550 W (at 100 VAC), 550 W (at 200 VAC),
	•	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).
		Extended Ambient	For approved hardware configurations, the supported system inlet range is

Operating Support extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

http://www.hp.com/servers/ashrae.

For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

http://www.hp.com/servers/ashrae.

System performance may be reduced if operating in the extended ambient operating range or with a fan fault.

NOTE: Supports A3 and A4 extended ambient.

		••		
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).		
Relative Humidity	Operating	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.		
(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	bystander position a 23°C ambient env	ared A-Weighted sound power levels (LWAd) and declared average A-Weighted sound pressure levels (LpAm) when the product is operating in vironment. Noise emissions were measured in accordance with ISO 7779 clared in accordance with ISO 9296 (ECMA 109).		
	Idle			
	L WAd	Entry 5.1 B		
		Base 5.2 B		
		Performance 5.0 B		
	LpAm	Entry 34.2 dBA		
		Base 35.9 dBA		
		Performance 34.9 dBA		
	Operating			
	L WAd	Entry 5.3 B		
		Base 5.3 B		
		Performance 5.6 B		
	L pAm	Entry 36.3 dBA		
		Base 36.2 dBA		
		Performance 39.7 dBA		

Emissions	FCC Rating	Class A
Classification	Normative	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438;
(EMC)	Standards	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.

HPE Dynamic	Number of PCI l	inks	Four		
Smart Array	Storage protocol support		4Gb/s SATA 6Gb/s		
B140i Controller					
	Number of SAS	/SATA links	10 links		
	SAS/SATA connectivity Expander support Drives supported (max) RAID support		2x4 connectors; 2x ²	1 connectors	
			No		
			Up to 10 Internal D	rives	
			0, 1, 10, 5 SATA		
	Software manag	gement	HPE SSA, SMH, SIM Server warranty Not Supported		
	Warranty				
	HPE Secure Enc	ryption license			
	HPE SmartCache License HPE Smart Storage Administrator		Not Supported • Supported		
HPE Embedded Dual Port 361i	Network Interface	10Base-T/100Base	e-TX/1000Base-TX		
Adapter	Compatibility	itibility IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS			
		IEEE 802.3az - Ene	ergy Efficient Etherne	et (EEE)	
	Data Transfer M	lethod	PCI Express v 2.0, 5	5.0 GT/s, two lanes (x2)	
	Controller		Intel 1350 Powervill	e	
	Network Transfer Rate	10Base-T (Half-Du 10Base-T (Full-Du 100Base-TX (Half- 100Base-TX (Full- 1000Base-TX (Hal	plex) -Duplex) Duplex)	10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port, 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combined 200 Mb/s per port, 800 Mb/s combined 1000Mb/s per port, 4000 Mb/s combined	
	Connector	Two RJ-45			
	Cable Support	10 Base-T 10/100/1000 Bas	se-TX	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) Category 5 or higher UTP; up to 328 ft (100 m)	

HPE Smart Array P440	Dimensions (excluding bracket) Disk Drive	6.6 x 2.7 x 0.57 1.6	Cle Form Factor 7 in (16.8 x 6.86 x o cm) erial Attached SC	19.05 cm x 24.13 cm x 5.72 cm (7.5 in x 9.5 in x 2.25 in)			
			erial Attached SC Serial AT Attachn				
	SAS Port Link Rate	12Gb/s per ph	ysical link suppor	ted;			
	PCIe Link Rate	PCle3 x8					
	Cache Memory	DDR3-1866MHz, 72-bit wide bus at 14.9GB/s (4GB cache module)					
	Physical Drives Supported	•	Up to 8 drives without 12G SAS Expander card; up to 48 drives with 2 SAS Expander card (ML350 Gen9)				
	Logical Drives Supported	Up to 64 logic	al drives				
	Memory Addressing	64-bit, suppor	ting servers with	memory space greater than 4 G	iB (4.4GB)		
	RAID Support	RAID 6, 60 (Advanced Data Guarding) RAID 5, 50 (Distributed Data Guarding) RAID 1, 10 (Drive Mirroring) RAID 1 ADM, 10 ADM (Advanced Data Mirroring) RAID 0 (Striping)					
	Upgradeable Firmware	Upgradeable firmware with recovery ROM feature					
StoreEasy 1550	Tower Dimensions	17.32(H) x 7.68	(W) x 18.92(D) in	(44 x 19.5 x 48.05 cm)			
	Tower Weight	Minimum: Maximum:	27.56lb (12.5kg 55lb (24.9g)))			
	Input Requirements	Range Line Voltage Rated Input Current	100 to 240 \ For 350W &	/AC 550W Power Supply:8A (at 100	~240 VAC)		
		Rated Input Frequency	50 to 60 Hz				
		Rated Input Power For 550 W Power Supply:< 639 W (at 100 VAC),< 605 W (at 200 VAC)					
			For 350 W P	ower Supply:< 427 W (at 100 VA	AC),< 427 W (at 200 VAC)		
	BTU Rating	Maximum	For 550 W Po VAC)	wer Supply:2204 BTU/hr (at 100) VAC),2113 BTU/hr (at 200		
			For 350 W Po VAC)	wer Supply:1452 BTU/hr (at 100) VAC),1544 BTU/hr (at 200		

Power Specifications	To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: <u>http://www.hp.com/go/proliant-energy-efficient</u> or http://www.hp.com/go/proliant-energy-efficient or http://www.hp.com/go/proliant-energy-efficient or			
Power Supply	Rated Steady-			
Output	State Power	For 550 W Power Supply:550 W (at 100 VAC),550 W (at 200 VAC),		
Culpul	Maximum Peak Power	For 350 W Power Supply:350 W (at 100 VAC),350 W (at 200 VAC),		
System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°Cper 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 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above $30^{\circ}C(86^{\circ}F)$.		
		For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10° C (41° to 50° F) and 35° to 40° C (95° to 104° F) at sea level with an altitude derating of 1.0° C per every 175 m (1.8° F per every 574 ft) above 900 m (2953 ft) to a maximum of 3048		
		m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/ashrae .		
		For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3048 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/ashrae.		
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault.		
		NOTE: Supports A3 extended ambient.		
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr(36°F/hr).		
Relative Humidity	Operating	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of24°C (75.2°F) dew point or 90% relative humidity.		
	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 457m/min (1500 ft/min).		
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457m/min (1500 ft/min).		
Acoustic Noise	bystander position a 23°C ambient env	ared A-Weighted sound power levels (LWAd) and declared average A-Weighted sound pressure levels (LpAm) when the product is operating in <i>r</i> ironment. Noise emissions were measured in accordance with ISO 7779 clared in accordance with ISO 9296 (ECMA 109).		
	L WAd	3.6 Bels (LFF Non Hot-Plug Base)		
		Dane 50		

			3.6 Bels (LFF Hot-plug Base)
			4.1 Bels (LFF Hot-plug Performance)
		L pAm	21 dBA (LFF Non Hot-Plug Base)
			21 dBA (LFF Hot-plug Base)
			27 dBA (LFF Hot-plug Performance)
		Operating	
		L WAd	3.6 Bels (LFF Non Hot-Plug Base)
			3.7 Bels (LFF Hot-plug Base)
			4.2 Bels (LFF Hot-plug Performance)
		LpAm	21 dBA (LFF Non Hot-Plug Base)
			21 dBA (LFF Hot-plug Base)
			25 dBA (LFF Hot-plug Performance)
			tions tested for LFF non hot-plug based models included one (1) 1TB LFF D and Windows 2012 Enterprise 64-bit.
		-	tions tested for LFF hot-plug base models included one (1) 1TB LFF SATA Windows 2012 Enterprise 64-bit.
			tions tested for LFF hot-plug performance models included four (4) 2TB
		-	e HDD and Windows 2012 Enterprise 64-bit.
			l sound levels apply to standard shipping configurations. Additional It in increased sound levels.
	Emissions	FCC Rating	Class B
	Classification	Normative	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438;
		Standards	GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
			onformance to cited product specifications is based on sample (type)
		-	n, or assessment. This product or family of products is eligible to bear the pliance logos and statements.
HPE Dynamic	Number of PCI		
Smart Array	links	Four	
B140i	PCI link rate	4Gb/s	
Controller	Storage protocol support	SATA	
	SAS/SATA peak	6Gb/s	
	data tranfer rate		
	Number of SAS/SATA links	10 links	
	SAS/SATA	2x4 connectors; 2>	(1 connectors
	connectivity		
	Expander support	No	
	Drives	Up to 10 Internal [Drives
	supported (max)	-	
	RAID support	0, 1, 10, 5 SATA	
	Software	HPE SSA, SMH, SI	Μ

management	
Warranty	Server warranty
HPE Secure	Not Supported
Encryption	
license	
HPE SmartCache	Not Supported
License	
HPE Smart	
Storage	Supported
Administrator	

HPE Ethernet 1Gb 2-port 330 Adapter	Network Di Interface Compatibility Data Transfer	10Base-T/100Base-TX/1000Base IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX	e-TX
	Method	PCI Express, two lanes (x2)	
	Controller	BCM5717	
	Network Transfer Rate	10Base-T (Half-Duplex) 10Base-T (Full-Duplex) 100Base-TX (Half-Duplex) 100Base-TX (Full-Duplex) 100Base-TX (Half-Duplex) 100Base-TX (Full-Duplex)	10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port, 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combined 200 Mb/s per port, 800 Mb/s combined 1000Mb/s per port, 4000 Mb/s combined 2000Mb/s per port, 8000 Mb/s combined
	Connector	RJ-45	
	Cable Support	10 Base-T 10/100/1000 Base-TX	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) Category 5 or higher UTP; up to 328 ft (100 m)
StoreEasy 1650/1850	Dimensions Weight	SFF Drives: 3.44 x 17.54 x 26.75 ir LFF Drives: 3.44 x 17.54 x 28.75 ir NOTE: Dimensions without Bez	n (8.73 x 44.55 x 73.02 cm) el.
	weignt (approximate)	Minimum: (Minimum - 8SFF chassis with 1x)	32.6 lb (14.759 kg) SFF

JIEJ		
	HDD and 7 HDD blanks, 1x	
	processor, 1x power supply (plus	
	blank), 1x Flexible Smart Array, 1x	
	Riser installed)	
	Maximum:	51.5 lb (23.6 kg)
	(Maximum - 12 LFF hard drives (No	

	supplies, 1x Flexible	rives), 2x processors, 2x power ies, 1x Flexible Smart Array, 2x		
Incorrect	Risers installed)			
Input Requirements (per power supply)	Range Line Voltage	100 to 120 VAC 200 to 240 VAC		
BTU Rating	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only		
		For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only		
Power Supply Output	Rated Steady- State Power	For 1400W Power Supply: 1400W (at 100 VAC), 1400W (at 240 VAC), 1400W (at 240 VAC)		
(per power supply)		For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only		
		For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only		
	Maximum Peak Power	For 1400W Power Supply: 1400W (at 100 to 127 VAC), 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only		
		For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only		
		For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only		
System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).		
		For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae		
		For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae		

System performance may be reduced if operating in the extended ambient

operating range or with a fan fault.

	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative		
Humidity	Operating	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
(non-condensing)) Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3050 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	bystander positior a 23°C ambient en (ECMA 74) and de	lared A-Weighted sound power levels (LWAd) and declared average n A-Weighted sound pressure levels (LpAm) when the product is operating in avironment. Noise emissions were measured in accordance with ISO 7779 eclared in accordance with ISO 9296 (ECMA 109).
	Idle	
	L WAd	4.0 B Entry LFF
		4.1 B Entry
		4.2 B Base
		5.7 B Base LFF
		4.3 B Perf
	LpAm	23 dBA Entry LFF
		24 dBA Entry
		24 dBA Base
		39 dBA Base LFF
		25 dBA Perf
	Operating	
	L WAd	4.3 B Entry LFF
		4.6 B Entry
		4.8 B Base
		5.9 B Base LFF
		5.6 B Perf
	LpAm	25 dBA Entry LFF
		29 dBA Entry
		30 dBA Base
		31 dBA Base LFF
		39 dBA Perf
	Entry, Base, Base sound levels. The	d sound levels apply to standard shipping configurations (Entry LFF, LFF and Performance models) additional options may result in increased Base LFF model leverages our High Efficiency Fans, other models are Indard fan options.

EmissionsFCC RatingClass AClassificationNormativeCISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438;

	(EMC)	Standards 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 th appropriate compliance logos and statements. NOTE: The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.
HPE Dynamic Smart Array	Number of PCI links	Four
B140i	PCI link rate	4Gb/s
Controller	Storage protocol support	SATA
	SAS/SATA peak data transfer rate	6Gb/s
	Number of SAS/SATA links	10 links
	SAS/SATA connectivity	2x4 connectors; 2x1 connectors
	Expander support	No
	Drives supported (max)	Up to 10 Internal Drives
	RAID support	0, 1, 10, 5 SATA
	Software management	HPE SSA, SMH, SIM
	Warranty	Server warranty
	HPE Secure Encryption license	Not Supported
	HPE SmartCache License	Not Supported
	HPE Smart Storage Administrator	Supported
HPE Ethernet 1Gb 4-port 331i	Network Interface	10Base-T/100Base-TX/1000Base-TX
Adapter	Compatibility	IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX
	Data Transfer Method	PCI Express, two lanes (x2)

	Controller	BCM5719				
	Network Transfer Rate	10Base-T (Half-Duplex 10Base-T (Full-Duplex 100Base-TX (Half-Dup 100Base-TX (Full-Dup 1000Base-TX (Half an Duplex) 1000Base-TX (Full-Du) blex) lex) d Full-	10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port, 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combined 200 Mb/s per port, 800 Mb/s combined 1000Mb/s per port, 4000 Mb/s combined		
	Connector	Four RJ-4510 Base-TCategories 310/100/1000 Base-TXCategory 5 c				
	Cable Support			3, 4 or 5 UTP; up to 328 ft (100 m) or higher UTP; up to 328 ft (100 m)		
HPE Smart Array P440ar	Dimensions (excluding bracket)	Flexible Smart Array Form FactorLow Profile PCIe Form Factor5.3 x 4.1 x 1.2 in6.6 x 2.7 x 0.57 in (16.8 x 6.86 x 1.6 cm)				
	Disk Drive	12Gb/s SAS (Serial Attached SCSI)				
		6Gb/s SATA (Serial AT Attachment)				
	SAS Port Link Rate	12Gb/s per physical link supported				
	PCIe Link Rate	PCIe3 x8				
	Cache Memory	DDR3-1866MHz, 72-bit wide bus at 14.9GB/s (2GB cache module)				
	Physical Drives Supported	Up to 26 drives				
	Logical Drives Supported	Up to 64 logical drives				
	Memory Addressing	64-bit, supporting servers with memory space greater than 4 GiB (4.4GB)				
	RAID Support	RAID 6, 60 (Advanced Data Guarding) RAID 5, 50 (Distributed Data Guarding) RAID 1, 10 (Drive Mirroring) RAID 1 ADM, 10 ADM (Advanced Data Mirroring) RAID 0 (Striping)				
	Upgradeable Firmware	Upgradeable firmware with recovery ROM feature				

StoreEasy 1650	Dimensions	LFF Drives: 3.44 x 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm) NOTE: Dimensions without Bezel.		
Expanded				
	Input Requirements (per power supply)	Voltage	100 to 120 VAC 200 to 240 VAC	
	BTU Rating	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only	
	Power Supply Output (per power supply)	Rated Steady- State Power	For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only	
		Maximum Peak Power	For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only	
TemperatureOperating Supportevery 305 m (1.8°F per every 3050 m (10,000 ft), no direct is 20°C/hr (36°F/hr). The upp the type and number of optice		10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).		
			For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae	
			For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae	
			System performance may be reduced if operating in the extended ambient	

operating range or with a fan fault.

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)	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.	
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.	
Altitude	Operating	3050 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		

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	4.0 B Entry LFF
	4.1 B Entry
	4.2 B Base
	5.7 B Base LFF
	4.3 B Perf
L pAm	23 dBA Entry LFF
L pAm	23 dBA Entry LFF 24 dBA Entry
L pAm	,
L pAm	24 dBA Entry
L pAm	24 dBA Entry 24 dBA Base

Operating

L WAd	4.3 B Entry LFF
	4.6 B Entry
	4.8 B Base
	5.9 B Base LFF
	5.6 B Perf

			25 dBA Entry LFF 29 dBA Entry 30 dBA Base 31 dBA Base LFF 39 dBA Perf sound levels apply to standard shipping configurations (Entry LFF,
		=	_FF and Performance models) additional options may result in increased Base LFF model leverages our High Efficiency Fans, other models are dard fan options.
	Emissions Classification (EMC)	testing, evaluation the appropriate co NOTE: The Listed	Class A 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 nformance to cited product specifications is based on sample (type) n, or assessment. This product or family of products is eligible to bear ompliance logos and statements. sound levels apply to standard shipping configurations. Additional t in increased sound levels.
HPE Dynamic Smart Array	Number of PCI links	Four	
B140i Controller	PCI link rate	4Gb/s	
	Storage protocol support	SATA	
	SAS/SATA peak data transfer rate	6Gb/s	
	Number of SAS/SATA links	10 links	
	SAS/SATA connectivity	2x4 connectors; 2x	1 connectors
	Expander support	No	
	Drives	Up to 10 Internal D	rives
	supported (max)		
	RAID support	0, 1, 10, 5 SATA	
	Software	HPE SSA, SMH, SIN	1
	management	_	
	Warranty	Server warranty	
	HPE Secure Encryption license	Not Supported	
	HPE SmartCache License	Not Supported	

	HPE Smart Storage Administrator	Supported			
HPE Ethernet 1Gb 2-port 36li	Network Interface	10Base-T/100Base-TX/1000Base-TX			
Adapter		IEEE 802.3 10Base-T			
	Compatibility	IEEE 802.3ab 1000Base-T			
		IEEE 802.3u 100Base-TX			
	Data Transfer Method	PCI Express, two lanes (x2)			
	Controller	BCM5719			
	Network Transfer Rate	10Base-T (Half-Duplex) 10Base-T (Full-Duplex) 100Base-TX (Half-Duplex) 100Base-TX (Full-Duplex) 1000Base-TX (Half and Full- Duplex) 1000Base-TX (Full-Duplex)	10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port, 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combined 200 Mb/s per port, 800 Mb/s combined 1000Mb/s per port, 4000 Mb/s combined 2000Mb/s per port, 8000 Mb/s combined		
	Connector	Four RJ-45			
	Cable Support	10 Base-T 10/100/1000 Base-TX	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) Category 5 or higher UTP; up to 328 ft (100 m)		

Summary of Changes

Date	Version History	Action	Description of Change
29-Jan-2016	From Version 24 to 25	Changed	Content edition on the configuration section
11-Dec-2015	From Version 23 to 24	Changed	Changes made to the Standard Features and Options Sections
01-Dec-2015	From Version 22 to 23	Changed	Changes were made throughout the entire document
28-Sept-2015	From Version 21 to 22	Changed	Added the StoreEasy System Recovery DVD, changes in the What´s New Sections
19-Jun-2015	From Version 20 to 21	Changes	Changes made on the following sections: Overview, Features and Benefits, Standard Features, Options and Service and Support
01-Jun-2015	From Version 19 to 20	Changed	Added the StoreEasy 1550 Storage model
30-Mar-2015	From Version 18 to 19	Changed	Added new models, changes were made on the entire document.
18-Dec-2014	From Version 17 to 18	Changed	Added SCSI HBA to StoreEasy 1640 options and other minor edits.
17-Oct-2014	From Version 16 to 17	Changed	Changed in the Options Section of the QS.
		Removed	Removed the HPE StoreEasy 1X30 Storage from the document.
18-Jul-2014	From Version 15 to 16	Added	Added HPE StoreEasy Windows Storage Server 2012 R2 Upgrade section
03-Jul-2014	From Version 13 to 15	Changed	Standard Features – Memory – StoreEasy 1640 Standard changed 12GB to 16GB and 3 x 4GB to 4 x 4GB; Standard Features – Storage External – added D3000 to supported products; Optional Software – HPE LiveVault section – replaced URL; Models – Pre-Configured – StoreEasy 1640 Models – memory - changed 12GB to 16GB and 3 x 4GB to 4 x 4GB; Options – added HPE D3000 Enclosures section
09-May-2014	From Version 12 to 13	Changed	Storage Controllers and Service and Support were revised.
11-Apr-2014	From Version 11 to 12	Changed	Changes were to Storage Controllers, Hard Drives, and Optional Software.
31-Mar-2014	From Version 10 to 11	Changed	Changes were made throughout.
31-Jan-2014	From Version 9 to 10	Changed	Updated the following: Standard Features - Windows Storage Server 2012 Note updated; Optional Software - HPE Autonomy LiveVault updated; Configuration Information - Add a Network Adapter - 656596-B21 added "(StoreEasy 1430 only" to the description; added 718904-B21 and 728987-B21 to the supported adapters; Add More Storage- StoreEasy 1430/1530 - removed BC377A and BC390AAE, added D7526A, D7527A and D7527AAE and removed link to DA14228 and added 729552- B21 and 650926-B21 and QW990A; StoreEasy 1630/1830 - added 698531-B21, D7526A, D7527A, removed BC377A and BC390AAE - removed links to DA14227, DA14228, DA13200 DA14336 and DA14343, added 729552-B21 and 650926-B21 added C8R38A and C8R39A and QW990A; Hard Drives for the StoreEasy 1430/1530 - added 652753-B21, 718171-B21; 734362- B21, 718189-B21, 739900-B21, 718183-B21, 739890-B21, 718177- B21, 691860-B21, 691856-B21, 691854-B21, and 691852-B21; Hard Drives for StoreEasy 1630 - added 718171-B21; 734362-

Summary of Changes

04-Oct-2013 20-Sep-2013	From Version 8 to 9 From Version 7 to 8	Changed	B21, 718189-B21, 739900-B21, 718183-B21, 739890-B21, 718177- B21, 691860-B21, 691856-B21, 691854-B21, and 691852-B21; removed 653124-B21 and 653122-B21. Hard Drives for StoreEasy 1830 - added 718162-B21, 717965-B21, 734360-B21, 717973.B21, 717971-B21, 739898-B21, 739888-B21, 717969-B21, 653078-B21 Updated the following sections Standard Features - Storage Controller Options - HPE Hard Drives for StoreEasy 1830 Updated the following: Options - StoreEasy Disk Enclosures - Updated the following: Options - StoreEasy Disk Enclosures -
			Updated existing NOTE and added new NOTE for the 25 SFF Disk Enclosure; Options - Drives for StoreEasy Enclosures - added 1.2TB SAS HDD - 693648-B21
19-Aug-2013	From Version 6 to 7	Changed	Changed What's New to read: New StoreEasy 1630 with 2 SFF rear drives with pre-installed OS. 12 LFF slots open for data drives. Changes made to update the HPE StoreEasy 1630 Storage throughout the QuickSpecs.
28-Jun-2013	From Version 5 to 6	Changed	Drives for StoreEasy Enclosures was revised in Options Note was added to Operating System in Standard Features HPE 10 GbE PCI-e Dual Port Network Interface Card was added to StoreEasy 1830 in Options HPE StoreFabric SN1000Q 16GB 1-port and 2-port PCIe Fibre Channel Host Bus Adapters were added to QLogic Fibre Channel HBAs in Options
10-Jun-2013	From Version 4 to 5	Changed	 Overview: Updated What's New, HPE StoreEasy 1430 Storage, HPE StoreEasy 1530 Storage, HPE StoreEasy 1630 Storage and HPE StoreEasy 1830 Storage. Features and Benefits: Updated Efficiently Save money and time, Secure: Protect your data and organization always and Highly Available, Prevent User and Organization disruption sections. Optional Software: Update HPE Data Protector software hyperlink. Options: Updated HPE Hard Drives for StoreEasy 1430/1530, HPE Hard Drives for StoreEasy 1630, StoreEasy Disk Enclosures, Drives for StoreEasy 1630, StoreEasy Disk Enclosures, Drives for StoreEasy 1830 I/O Expansion Options sections.
19-Apr-2013	From Version 3 to 4	Changed	Standard Features: Updated Maximum Storage Capacity(raw) Models (Drives Configure-to-Order): Updated StoreEasy 1830 Storage Options: Updated Add a Network Adapter section StoreEasy 1430/1530, StoreEasy 1630 and StoreEasy 1830 Service and Support, Hp Care Pack, and Warranty Information: Udated Warranty section
08-Mar-2013	From Version 2 to 3	Changed	Changes were made in the following sections: Standard Features: Updated Operating System section Options: in all sections updated parts and part numbers.

Summary of Changes

21-Dec-2012	From Version 1 to 2	Changed	Changes were made in the following sections:
			Overview: update Models
			Models (Drives Configure to Order): in Step 1 update hyperlink
			Options: in all sections updated parts and part numbers.



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

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