

Overview

HPE StoreEasy 1000 Storage with the HPE StoreEasy Management Console Sixth generation (1460, 1560, 1660, 1660 Expanded, 1860)

Whether you are a small, medium, or large distributed organization with remote offices, you need reliable, cost-efficient storage that can keep pace with users and growing volumes of file data without getting in the way of how your organization operates.

If you need an easy-to-manage centralized space for securely storing documents, images, audio, and video files, look no further than HPE StoreEasy 1000 Storage: flexible, efficient, and reliable network-attached storage, right-sized for your organization's needs and budget, without compromising on quality or capabilities.

Built from the foundation of the most secure industry-standard servers and running your choice of Microsoft Windows Server for Storage operating system (Windows Server IoT 2019 for Storage Standard Edition or Windows Storage Server 2016 Standard Edition), HPE StoreEasy 1000 Storage appliances deliver a radically simplified administration experience through HPE StoreEasy Management Console, lower-cost internal capacity expansion, and better performance options for resource-intensive workloads. More security protections built-in and included as standard help you better protect your customers, employees, and organization against loss, corruption, and breaches.

Start by choosing which operating system is the best fit for your IT environment. Then pick from a variety of pre-configured models that include the compute, capacity, and connectivity options most organizations need in a NAS solution, or tailor your performance and options with one of the configure-to-order models.

What's New

- All HPE StoreEasy 1000 Storage models are now available with the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system.
Notes:
 - HPE strongly encourages customers to choose the new HPE StoreEasy Storage SKUs featuring the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system.
 - HPE StoreEasy products that feature the previous version of the operating system (Microsoft Windows Storage Server 2016 Standard Edition) and the customers who purchase them are subject to Microsoft's Fixed Lifecycle Policy and will enter Microsoft's Extended Support phase (which includes paid support and security updates only) on January 12, 2022.
 - Microsoft Windows Server IoT 2019 for Storage will remain under Microsoft Mainstream Support (which includes incident support, security update support, and the ability to request non-security updates) until January 2024. Learn more about Microsoft's Fixed Lifecycle and support policy at <https://docs.microsoft.com/en-us/lifecycle/policies/fixed>
- HPE StoreEasy Management Console version 1.3 adds simplified storage provisioning and more intelligent consumption monitoring.
- Most sixth-generation StoreEasy 1000 Storage models that shipped with Microsoft Windows Storage Server 2016 Standard Edition can now be upgraded to the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system.
- The StoreEasy 1660 Expanded model now includes an Intel® Xeon® Scalable Silver 4208 processor with PC4-2933 memory.
- Select models now support new 18TB hard drives, resulting in a maximum raw internal capacity of 288TB on the HPE StoreEasy 1660 Storage and 504TB on the HPE StoreEasy 1660 Expanded Storage.

Overview

HPE StoreEasy 1460 Storage

HPE StoreEasy 1460 Storage solutions deliver multi-protocol file serving and application storage in a compact and affordable 1U rack-mount form factor that’s perfect for a small workgroup, small business, or remote office. All HPE StoreEasy 1460 models come with the operating system pre-installed on the four internal LFF drives.



HPE StoreEasy 1460 Storage

Models

Microsoft Windows Server IoT 2019 for Storage Standard Edition Operating System

Description

SKU

| | |
|---|--------|
| HPE StoreEasy 1460 8TB SATA Storage with Microsoft Windows Server IoT 2019 | R7G16A |
| HPE StoreEasy 1460 16TB SATA Storage with Microsoft Windows Server IoT 2019 | R7G17A |
| HPE StoreEasy 1460 32TB SATA Storage with Microsoft Windows Server IoT 2019 | R7G18A |

Microsoft Windows Storage Server 2016 Standard Edition Operating System

| | |
|---|--------|
| HPE StoreEasy 1460 8TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R92B |
| HPE StoreEasy 1460 16TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R93B |
| HPE StoreEasy 1460 32TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R94B |



Overview

HPE StoreEasy 1560 Storage

HPE StoreEasy 1560 Storage solutions are built on a compact and affordable tower form factor package and deliver multi-protocol file serving and application storage to environments that don't have rack space, including small workgroups, small businesses, and remote offices. All HPE StoreEasy 1560 models come with the operating system pre-installed on the four internal LFF drives.



HPE StoreEasy 1560 Storage

Models

Microsoft Windows Server IoT 2019 for Storage Standard Edition Operating System

Description

| | SKU |
|---|------------|
| HPE StoreEasy 1560 8TB SATA Storage with Microsoft Windows Server IoT 2019 | R7G19A |
| HPE StoreEasy 1560 16TB SATA Storage with Microsoft Windows Server IoT 2019 | R7G20A |

Microsoft Windows Storage Server 2016 Standard Edition Operating System

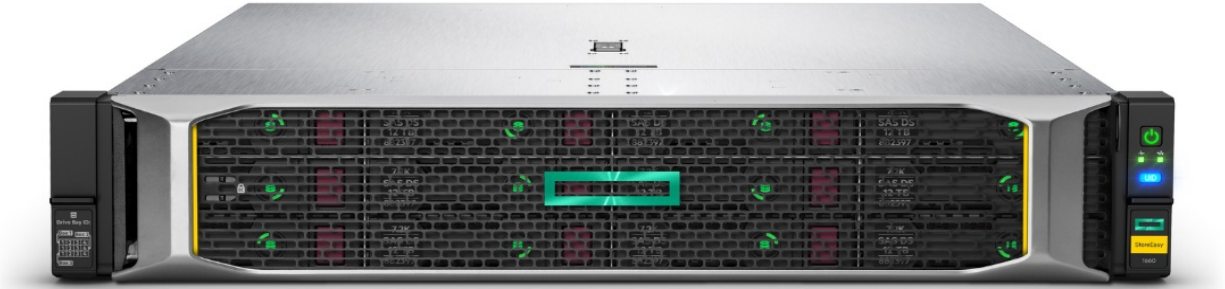
| | |
|---|--------|
| HPE StoreEasy 1560 8TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R96B |
| HPE StoreEasy 1560 16TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R97B |



Overview

HPE StoreEasy 1660 Storage

HPE StoreEasy 1660 Storage solutions deliver high internal capacity (with up to 16 LFF hot-plug drive slots) and external expandability in a 2U rack-mount form factor for small, medium, or large IT environments. All HPE StoreEasy 1660 models come with the operating system pre-installed on mirrored solid state drives.



HPE StoreEasy 1660 Storage

Models

Microsoft Windows Server IoT 2019 for Storage Standard Edition Operating System

Description

| | SKU |
|---|------------|
| HPE StoreEasy 1660 Performance Storage with Microsoft Windows Server IoT 2019 | R7G25A |
| HPE StoreEasy 1660 Storage with Microsoft Windows Server IoT 2019 | R7G24A |
| HPE StoreEasy 1660 16TB SAS Storage with Microsoft Windows Server IoT 2019 | R7G21A |
| HPE StoreEasy 1660 32TB SAS Storage with Microsoft Windows Server IoT 2019 | R7G22A |
| HPE StoreEasy 1660 64TB SAS Storage with Microsoft Windows Server IoT 2019 | R7G23A |

Microsoft Windows Storage Server 2016 Standard Edition Operating System

| | |
|---|--------|
| HPE StoreEasy 1660 Performance Storage with Microsoft Windows Storage Server 2016 | Q2P71B |
| HPE StoreEasy 1660 Storage with Microsoft Windows Storage Server 2016 | Q2P72B |
| HPE StoreEasy 1660 16TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P73B |
| HPE StoreEasy 1660 32TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P74B |
| HPE StoreEasy 1660 64TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P75B |



Overview

HPE StoreEasy 1660 Expanded Storage

The HPE StoreEasy 1660 Expanded Storage is a density-optimized (with 28 LFF hot-plug drive slots) 2U rack-mount form factor platform ideal for bulk file and secondary storage workloads. All StoreEasy 1660 Expanded models come with the operating system pre-installed on mirrored solid state drives.



HPE StoreEasy 1660 Expanded Storage

Model

Microsoft Windows Server IoT 2019 for Storage Standard Edition Operating System

Description

HPE StoreEasy 1660 Expanded Storage with Microsoft Windows Server IoT 2019

SKU

R7G46A

Microsoft Windows Storage Server 2016 Standard Edition Operating System

HPE StoreEasy 1660 Expanded Storage with Microsoft Windows Storage Server 2016

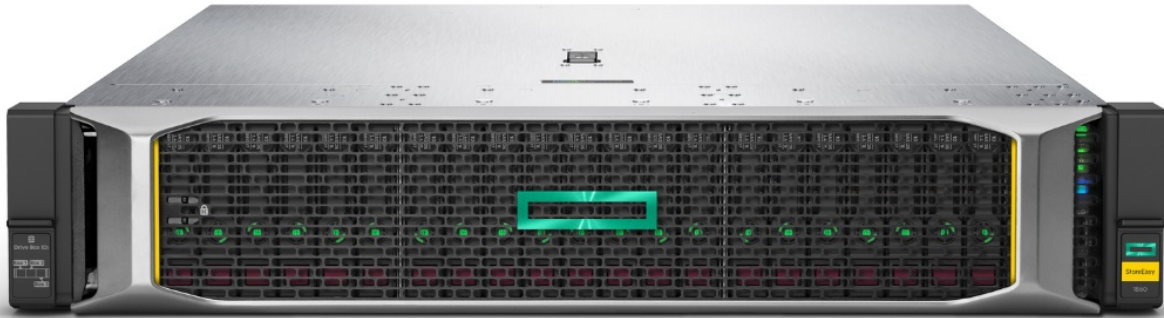
R7L72A



Overview

HPE StoreEasy 1860 Storage

HPE StoreEasy 1860 Storage solutions deliver enterprise-class performance (with up to 26 SFF hot-plug drive slots in a 2U rack-mount form factor) for hybrid flash configurations and latency-sensitive file share or application workloads. All HPE StoreEasy 1860 models come with the operating system pre-installed on mirrored solid state drives.



HPE StoreEasy 1860 Storage

Models

Microsoft Windows Server IoT 2019 for Storage Standard Edition Operating System

Description

HPE StoreEasy 1860 Performance Storage with Microsoft Windows Server IoT 2019

HPE StoreEasy 1860 Storage with Microsoft Windows Server IoT 2019

SKU

R7G29A

R7G28A

Microsoft Windows Storage Server 2016 Standard Edition Operating System

HPE StoreEasy 1860 Performance Storage with Microsoft Windows Storage Server 2016

HPE StoreEasy 1860 Storage with Microsoft Windows Storage Server 2016

HPE StoreEasy 1860 9.6TB SAS Storage with Microsoft Windows Storage Server 2016

HPE StoreEasy 1860 14.4TB SAS Storage with Microsoft Windows Storage Server 2016

Q2P76B

Q2P77B

Q2P78B

Q2P79B



Standard Features

HPE StoreEasy 1000 Storage lets you focus on your business, not your file storage

- HPE StoreEasy 1000 Storage systems come with pre-configured hardware and a Microsoft Windows Server for Storage (either Windows Server IoT 2019 for Storage Standard Edition or Windows Storage Server 2016 Standard Edition) operating system for purpose-built file serving.
- All HPE StoreEasy 1000 Storage models feature HPE StoreEasy Management Console, which centralizes management workflows and helps you save time and effort.
 - HPE StoreEasy Management Console enables IT administrators to quickly and easily monitor and manage their HPE StoreEasy 1000 appliance, regardless of familiarity with the underlying Windows Server operating system.
 - Use the web-based interface to manage and monitor system health, capacity, performance, hardware events, quotas, snapshots, authentication, network services, and more.
 - Easily identify maintenance windows with both point-in-time and historical utilization views of throughput and traffic.
 - Simplify capacity planning with a granular historical utilization dashboard that helps predict when expansion is needed and provides a clear view of growth rate and usage trends.
 - Updates to the latest version through the HPE Support Center at any time during the warranty period of your HPE StoreEasy 1000 Storage system. You can leverage automatic updates within the application to take advantage of new features as soon as they are available, or you can stage updates for your next system maintenance window.
- The HPE-enhanced Initial Configuration Tasks Wizard simplifies installation and helps prevent network configuration errors for even faster deployment.
- HPE StoreEasy 1000 Storage accessories and adapters are industry-standard and are often the same as those in the HPE servers in your environment, and HPE StoreEasy hard drive bundles are the most efficient way to buy, deploy, and provision additional storage capacity over the life of the system.

The pre-installed operating system is tailored for file storage

You can now choose between two specially-licensed operating systems on your HPE StoreEasy 1000 Storage system: Microsoft Windows Server IoT 2019 Standard Edition or Microsoft Windows Storage Server 2016 Standard Edition. Both operating systems include a robust range of file serving and storage capabilities while leveraging your Windows Server management skill set and tools, including Active Directory, PowerShell and System Center. They address heterogeneous environments with support for CIFS/SMB (2.0, 2.1, 3.0, 3.02 and 3.1.1), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, and iSCSI protocols. And they enable more efficient storage utilization and protection with support for file quotas, screening, and classification, plus built-in deduplication and replication engines.

New features introduced in Microsoft Windows Server IoT 2019 for Storage are focused on bridging on-premises environments with Azure services, enabling HPE StoreEasy 1000 Storage to complement cloud applications and storage. With Windows Server IoT 2019 for Storage, you can integrate Azure services such as Azure Backup, Azure File Sync, disaster recovery, and much more. Windows Server IoT 2019 for Storage also introduces new storage migration and analytics tools, updated threat protection, and enhanced security capabilities. Finally, HPE StoreEasy 1000 Storage systems with Windows Server IoT 2019 for Storage can host DNS and DHCP services, increasing the number of roles the system can perform and adding even more solution value to small / remote and medium business environments.

When installed on HPE StoreEasy 1000 Storage systems, both Microsoft Windows Server IoT 2019 Standard Edition and Microsoft Windows Storage Server 2016 Standard Edition include an unlimited Client Access License (CAL), but come with some restrictions vs. mainstream Microsoft Windows Server versions.



Standard Features

The following summarizes HPE StoreEasy 1000 Storage supported features and roles:

| | Microsoft Windows Server IoT 2019 for Storage Standard Edition | Microsoft Windows Storage Server 2016 Standard Edition |
|--|--|--|
| Maximum CPUs and VM Rights | N/A | 2 CPUs + 2 VM |
| Maximum CPU cores and VM Rights | 16 cores per system + 2 VM | N/A |
| # Disks per controller (see HPE Product Specifications for Specific constraints for each controller) | 238 | |
| Maximum SMB Connections | 16,777,216 | |
| File Server Resource Manager (FSRM) | Yes | |
| Domain Join | Yes | |
| File Classification Infrastructure (FCI) | Yes | |
| Windows Server Backup | Yes | |
| DFS-Replication | Yes (100TB maximum) | |
| Storage Replica | Yes (limited to 1 x 2TB volume, 1 partnership, 1 resource group) | No |
| Azure File Sync | Yes | |
| Azure Backup | Yes | |
| Shared block storage (iSCSI Target Server / Storage Provider) | Yes | |
| Storage Spaces, Storage Spaces Direct, and Volume Replication | No | |
| Deduplication | Yes | |
| Deduplication for ReFS | Yes | No |
| BranchCache - Hosted Cache | Yes | |
| Hyper-V Virtualization | Host + 2VM* (Shielded VMs not included) | |
| Clustering (including AD/DNS) | Not supported on StoreEasy 1000 Storage | |
| Networking Infrastructure Roles (DHCP & DNS) | Yes | No |
| Active Directory roles including Domain Controller (RODC) | No | |
| Active Directory (Domain Controller, Certificate Services, Federation services, Rights Management) | No | |
| Application Server, Network Policy, Remote Desktop Broker, WDS and Fax Server | No | |
| Windows Server Migration Tools | Yes | |
| Windows Storage Migration Service | Yes | No |
| Windows Server System Insights | Yes | No |
| Enhanced Windows Defender Advanced Threat Protection (ATP) | Yes | No |

Notes: *Requires separate software license for each VM



Standard Features

Notes:

- HPE strongly encourages customers to choose the new HPE StoreEasy Storage SKUs featuring the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system.
- HPE StoreEasy products that feature the previous version of the operating system (Microsoft Windows Storage Server 2016 Standard Edition) and the customers who purchase them are subject to Microsoft's Fixed Lifecycle Policy and will enter Microsoft's Extended Support phase (which includes paid support and security updates only) on January 12, 2022.
- Microsoft Windows Server IoT 2019 for Storage will remain under Microsoft Mainstream Support (which includes incident support, security update support, and the ability to request non-security updates) until January 2024. Learn more about Microsoft's Fixed Lifecycle and support policy at <https://docs.microsoft.com/en-us/lifecycle/policies/extended>
- Microsoft Windows Server 2019 and Microsoft Windows Server IoT 2019 for Storage are built on the same code base. Along the same lines, Microsoft Windows Server 2016 and Microsoft Windows Storage Server 2016 are built on the same code base. Storage-centric (backup, replication, antivirus, etc.) applications certified for Windows Server 2019 and/or Windows Server 2016 are expected to have the same application compatibility profile on Windows Server IoT 2019 for Storage and Windows Storage Server 2016, respectively. Windows Server IoT for Storage / Windows Storage Server and Windows Server have the same application frameworks, services, and plumbing to support running the full breadth of Windows-compatible applications. Applications that rely upon certain roles that are removed from Windows Server IoT 2019 for Storage and Windows Storage Server 2016, such as fax server, Active Directory domain controller (all HPE StoreEasy 1000 Storage systems can join an Active Directory domain, but they cannot be a 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. Customers should review the End User License Agreement (EULA) to see the types of applications that are permitted for installation on HPE StoreEasy 1000 Storage systems.

More Information on Microsoft Windows Server IoT 2019 for Storage can be found here:

<https://docs.microsoft.com/en-us/windows/iot-core/windows-server>

More Information on Microsoft Windows Storage Server 2016 can be found here:

<https://blogs.technet.microsoft.com/storageserver/2016/10/14/announcing-windows-storage-server-2016/>

Protect your data and your investment

- HPE 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 built-on file classification, Volume Shadow Copy Service snapshots, and Distributed File System Replication (DFS-R) to keep your files safe and accessible.
 - 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.
 - Increase uptime with standard features such as near-continuous health monitoring with HPE Active Health System, redundant 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.
 - Get support from file storage experts with 3-Year Parts, 3-Year Labor, and 3-Year Onsite support with next business day response. All HPE StoreEasy Storage systems also include one year of 9x5 software telephone support for the Windows Server for Storage operating system.
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Standard Features

Archiving with iTernity Compliant Archive Software

Get open, flexible, and expandable long-term archiving with iTernity Compliant Archive Solution (iCAS). iTernity iCAS is validated to meet the United States Securities and Exchange Commission (SEC) 17a-4(f) requirements. Together, HPE StoreEasy 1000 Storage and iCAS are your key to legally-compliant data archiving.

For more information on how to obtain the iCAS for archiving visit the [HPE Complete iTernity iCAS](#) product page.

Expansion with HPE MSA SAN Storage or D3X10 / D6020 /D8000 Disk Enclosures

All HPE StoreEasy models support external storage using HPE MSA SAN Storage or D3X10 / D6020 / D8000 Disk Enclosure product families. A Fibre Channel, SAS, or iSCSI connection must be added to support MSA SAN Storage (note that high-availability clustering is not supported) while a Smart Array controller with external ports must be added to support external Disk Enclosures. The maximum number of disk enclosures supported is 8, a limit imposed by the disk enclosures and controllers. See the MSA SAN Storage, D3X10 Disk Enclosure, D6020 Disk Enclosure, and D8000 Disk Enclosure [QuickSpecs](#) for more information.



Service and Support

Warranty

HPE StoreEasy 1460, 1560, 1660, 1660 Expanded, and 1860 Storage systems come with a standard 3-3-3 warranty (3 years parts exchange, 3 years labor and 3 years onsite, next business day response). Software media is warranted to be free of physical defect for a period of 90 days from delivery.

Services Included with the Product

One year of Hewlett Packard Enterprise Software Support for the Windows Server for Storage Operating System (either Windows Server IoT 2019 for Storage Standard Edition or Windows Storage Server 2016 Standard Edition), standard 9x5 business hours (software advisory and remedial software telephone support, and media and documentation distribution service).

Microsoft Operating System Support Statement

Standard support for the Microsoft Windows Server for Storage operating system (either Windows Server IoT 2019 for Storage Standard Edition or Windows Storage Server 2016 Standard Edition) installed on HPE StoreEasy 1000 Storage includes (but is not limited to) initial configuration, troubleshooting of operating system installation and/or recovery issues, hardware and driver problems, and system-specific / storage-centric features (Volume / File system creation; File/Folder/Share Permissions; Active Directory integration; DFS-R; DFS-N; quotas; deduplication; NFS, SMB, iSCSI protocols; performance tuning; etc.). Microsoft Clustering Services is not supported on HPE StoreEasy 1000 Storage. HPE Support Services will also not troubleshoot a Microsoft Operating System feature that has been deprecated or has limited functionality as per design by Microsoft. HPE Support Services will not troubleshoot third-party software or issues related to Microsoft Active Directory Services that are external to the HPE StoreEasy system that may be hindering implementation of Active Directory integration. In those cases, customers should resolve issues with their third-party software vendor and/or by opening a support case with Microsoft directly.

Achieve maximum return from your IT investment

Get the expertise you need at every step of your IT journey with **HPE Pointnext services and support**. We help you lower your risks and costs using proven best practices, automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. With **Advisory Services**, we focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Reduce down time, increase diagnostic accuracy and have a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support. Learn more about getting connected at <http://www.hpe.com/services/getconnected>

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 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.

HPE Storage Cloud Design Service - Build a scalable, low-cost enterprise storage environment with inherent cloud benefits to meet big data needs.



Service and Support

Deploy and integrate

We can help you configure, set up, and efficiently use your HPE StoreEasy Storage, as well as help migrate data, improve capacity utilization, and establish information management standards used across backup, replication, and archiving needs.

HPE StoreEasy 1000 Storage 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.

<https://h20195.www2.hpe.com/v2/Getdocument.aspx?docname=4AA2-6112ENW>

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.

<https://h20195.www2.hpe.com/V2/GetPDF.aspx/4AA5-3759ENW.pdf>

HPE Service Credits

Offer flexible services and technical skills to meet your IT demands as your business evolves. With a menu of services, you can access additional resources and specialist skills to help you maintain peak performance of your IT. HPE Service Credits help you proactively respond to your dynamic IT and business needs.

Free up resources with Operational Services from HPE Pointnext Services

Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller are quoted using Hewlett Packard Enterprise order configuration tools.

HPE Proactive Care Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service includes available response times of next business day, 4 hour response or 6 hour to repair with answers to software questions within two hours. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers.

<http://www.hpe.com/services/proactivecare>

HPE Proactive Care

Gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice.

HPE Proactive Care is available in 3, 4 and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). This Service combines both reactive support when there is a problem with an enhanced call experience and start to finish case management with proactive reporting and advice. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.).

<https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

HPE Proactive Care Advanced

Incorporates all the deliverables of HPE Proactive Care plus includes personalized support from a local, assigned Account Support Manager who will share best practice advice and personalized recommendations designed to help improve availability and performance to help increase stability and reduce unplanned downtime. Leverage your system's ability to connect to HPE for pre-failure alerts, automatic call logging and parts dispatch. For business critical incidents, Proactive Care Advanced offers critical event management to help reduce mean time to resolution. HPE Service Credits are included to redeem for technical and operational services. HPE Proactive Care Advanced is offered in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR).

<https://www.hpe.com/h20195/v2/getdocument.aspx?docname=4AA5-3259ENW>



Service and Support

Notes: HPE Proactive Care and HPE Proactive Care Advanced require that the customer connect their devices to HPE to help make the most of these services and receive all the deliverables.

HPE Foundation Care – (choose the response level that meets your needs)

HPE Foundation Care helps when there is a problem and is available in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). Note that Call-To-Repair Service connects you to HPE 24 hours a day, seven days a week for assistance on resolving issues -this includes our highest level commitment to repair hardware within six hours after opening your case and respond to software questions within two hours. In addition, Collaborative software support is included and provides troubleshooting assistance on industry leading software running on your server. Simplify your support experience and make HPE your first call to help resolve hardware or software problems.

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en>

HPE Datacenter Care

Helps customers to address the pressing needs of IT today and smoothly transform to a more agile cloud-like IT operations model. We help run and monitor your IT by offloading the day to day routine tasks, helping customers be more predictive and proactive, and saving time with one place to call with for all of their IT. Datacenter Care is available as both tailored statement of work and as a packaged service for 3, 4, and 5 year terms.

Partner with an assigned account team backed by local and global experts, access HPE enhanced call experience with priority access, use specialized support for complex, technologies, choose hardware and software support for your devices, implement proactive monitoring to stay ahead of issues, and access HPE IT best practices and IP. HPE Datacenter Care advantage options are available to add to your agreement to give you specialized expertise for performance, security, back up analysis, and much more.

Other related services from HPE Pointnext Services

Defective Media Retention

Is an option available with HPE Datacenter Care, HPE Proactive Care, Proactive Care Advanced, and HPE Foundation Care and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE Education Services

Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. <http://www.hpe.com/ww/learn>

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.



Service and Support

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers.

Learn more <http://www.hpe.com/support/hpesc>

The HPE Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Support Center is available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.

Notes: *HPE Support Center Mobile App is subject to local availability

For more information

<http://www.hpe.com/services>

<https://www.hpe.com/us/en/services/operational.html>

To learn more about HPE Storage Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. HPE Pointnext operational services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

- 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 Pointnext operational services at <http://ssc.hpe.com/portal/site/ssc/>



Configuration Information

HPE StoreEasy 1460 Storage

| Common Specifications (all HPE StoreEasy 1460 Storage models) | |
|---|--|
| Processor | 1 x Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor; 2 nd processor optional |
| Storage Controller | HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller |
| Internal Drive Support | 4 x LFF (3.5") hot-plug front drive bays standard |
| Network Ports Standard | 4 x 1GbE |
| Network Adapter | HPE Ethernet 1Gb 4-port 366FLR FlexLOM Adapter; PCIe NIC optional |
| Expansion Slots | 2 x PCIe; secondary riser with one additional PCIe slot optional |
| Power | 1 x 500W Platinum standard; optional 2 nd redundant power supply |
| Cooling | 5 hot-plug redundant fans (single processor), 7 hot-plug redundant fans (dual processors) |
| Form Factor | 1U rackmount |
| Security | 1U lockable security bezel; Trusted Platform Module 2.0 optional |
| Additional Licenses | HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features Notes: For more information, visit: iLO Supported Servers and Features |

R7G16A, R7G17A, and R7G18A

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Server IoT 2019 for Storage Standard Edition with HPE StoreEasy Management Console |
| Memory Standard | 16GB |
| Memory Type | 1 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Q2R92B, Q2R93B, and Q2R94B

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Storage Server 2016 Standard Edition with HPE StoreEasy Management Console |
| Memory Standard | 8GB |
| Memory Type | 1 x HPE 8GB Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Notes: Options listed in the steps below are limited to those recommended for use with StoreEasy 1460 Storage models. For more information on the complete set of compatible options, please reference the ProLiant DL360 Gen10 QuickSpecs at: <https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00008159enw>



Configuration Information

Step 1: Choose your HPE StoreEasy 1460 Storage model

All HPE StoreEasy 1460 SKUs are pre-configured Build-to-Order (BTO) models with RAID10 partitions across the four factory-installed drives for both the pre-installed operating system and the pre-configured file storage capacity. All models can be factory-racked, but all options in the configuration steps below are not factory integrated and are shipped separately.

Notes:

- HPE strongly encourages customers to choose one of the new HPE StoreEasy 1460 Storage SKUs featuring the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system (R7G16A, R7G17A, or R7G18A) since Microsoft will be moving the Windows Storage Server 2016 Standard Edition operating system to their Extended Support phase starting in January of 2022. For more information, please visit <https://docs.microsoft.com/en-us/lifecycle/policies/fixed>
- All model names are based on raw storage capacity, not available user storage.
- The pre-configured file storage partition is set up as RAID10 across all four factory-installed drives; it can be reconfigured, but as a best practice, HPE recommends only RAID10 or RAID6 for data partitions.

Description

| Description | SKU |
|--|--------|
| HPE StoreEasy 1460 8TB SATA Storage with Microsoft Windows Server IoT 2019 Notes: (4 x 2TB SATA 6G Midline 7.2K LFF HDDs) | R7G16A |
| HPE StoreEasy 1460 16TB SATA Storage with Microsoft Windows Server IoT 2019 Notes: (4 x 4TB SATA 6G Midline 7.2K LFF HDDs) | R7G17A |
| HPE StoreEasy 1460 32TB SATA Storage with Microsoft Windows Server IoT 2019 Notes: (4 x 8TB SATA 6G Midline 7.2K LFF HDDs) | R7G18A |
| HPE StoreEasy 1460 8TB SATA Storage with Microsoft Windows Storage Server 2016 Notes: (4 x 2TB SATA 6G Midline 7.2K LFF HDDs) | Q2R92B |
| HPE StoreEasy 1460 16TB SATA Storage with Microsoft Windows Storage Server 2016 Notes: (4 x 4TB SATA 6G Midline 7.2K LFF HDDs) | Q2R93B |
| HPE StoreEasy 1460 32TB SATA Storage with Microsoft Windows Storage Server 2016 Notes: (4 x 8TB SATA 6G Midline 7.2K LFF HDDs) | Q2R94B |

Step 2: Choose a second processor (optional)

| | |
|---|------------|
| Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor Kit for HPE ProLiant DL360 Gen10 | P02565-B21 |
|---|------------|

Step 3: Choose additional memory kit(s) (optional)

R7G16A, R7G17A, and R7G18A only

| | |
|---|------------|
| HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit | P00922-K21 |
|---|------------|

Q2R92B, Q2R93B, and Q2R94B only

| | |
|---|------------|
| HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit | P00918-K21 |
|---|------------|

Notes:

- There are 12 DIMM slots per processor for a total maximum of 24 DIMM slots. All HPE StoreEasy 1460 models come with one processor and one DIMM standard.
- Dual-processor HPE StoreEasy 1460 systems must have the same number and type of memory DIMMs installed for each processor.

Step 4: Choose a riser kit to add a PCIe slot (optional)

| | |
|---------------------------------------|------------|
| HPE DL360 Gen10 Low Profile Riser Kit | 867982-B21 |
|---------------------------------------|------------|

Notes: Expands the number of available PCIe slots from 2 to 3, and also requires addition of a second processor.



Configuration Information

Step 5: Choose an external storage controller to connect to external enclosures (optional)

HPE Smart Array SAS Controllers

| Description | SKU |
|---|------------|
| HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller | 804398-B21 |
| HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller | 804405-B21 |
| HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU | Q2F26AAE |

Notes: If you wish to enable Data at Rest Encryption on the HPE StoreEasy 1460 using the included Smart Array P408i-a or with an optional Smart Array P408e-p listed above, you must order the optional HPE Smart Array SR Secure Encryption E-LTU (SKU Q2F26AAE).

HPE Special Reminder

Before enabling encryption on the Smart Array controller module on this system, you must ensure that your intended use of the encryption complies with relevant local laws, regulations and policies, and approvals or licenses must be obtained if applicable.

For any compliance issues arising from your operation/usage of encryption within the Smart Array controller module which violates the above-mentioned requirement, you shall bear all the liabilities wholly and solely. Hewlett Packard Enterprise will not be responsible for any related liabilities.

For more information see the [HPE Smart Array SR Secure Encryption QuickSpecs](#).

Step 6: Choose additional network adapter(s) (optional)

Notes: SFP and SFP+ Adapters do not include a transceiver by default.

SFP transceiver(s) or direct connect cable(s) should be ordered according to the transceiver and cable compatibility matrix found at:

<https://www.hpe.com/us/en/pdfViewer.html?resource=/content/hpe/country/us/en/resources/servers/reference-guide/transceiver-networking-server&parentPage=/us/en/products/servers/networking>

PCIe Network Adapters

| | |
|--|------------|
| HPE StoreEasy 10GbE 2-port 530T Adapter | Q2P91A |
| HPE StoreEasy 10GbE 2-port 530SFP+ Adapter | Q2P92A |
| HPE Ethernet 1Gb 2-port BASE-T BCM5720 Adapter | 615732-B21 |
| HPE Ethernet 1Gb 4-port BASE-T BCM5719 Adapter | 647594-B21 |

Step 7: Choose the HPE Trusted Platform Module (optional)

| | |
|--|------------|
| HPE Trusted Platform Module 2.0 Gen10 Option | 864279-B21 |
|--|------------|

Notes: HPE StoreEasy systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

Step 8: Choose second power supply (optional)

| | |
|---|------------|
| HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit | 865408-B21 |
|---|------------|

Step 9: Choose a System Recovery Media Kit (optional)

R7G16A, R7G17A, and R7G18A only

| | |
|--|--------|
| HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Server IoT 2019 for Storage | R7G47B |
|--|--------|

Q2R92B, Q2R93B, and Q2R94B only

| | |
|--|--------|
| HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Storage Server 2016 | Q2P95B |
|--|--------|



Configuration Information

Notes:

- HPE StoreEasy 1X60 Recovery Software Media Kits contain a System Recovery USB key that is used to re-install the factory operating system image. Booting the system from the System Recovery media 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 HPE StoreEasy 1X60 Administrator Guide for more information on performing a System Recovery.
 - Alternatively, the HPE StoreEasy 1X60 Recovery Software image can be downloaded from the HPE's Software Depot at no charge. More information is available here: <https://myenterpriselicense.hpe.com/cwp-ui/free-software/>.
 - For more information on how to perform a system recovery on a HPE StoreEasy 1460 refer to the HPE StoreEasy 1X60 Administrator's Guide. The guide can be downloaded from <http://www.hpe.com/support> . Select HPE Support Center and search for the HPE StoreEasy system model in the drivers and download section.
 - 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. 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.
-



Configuration Information

HPE StoreEasy 1560 Storage

Common Specifications (all HPE StoreEasy 1560 Storage models)

| | |
|-------------------------------|--|
| Processor | 1 x Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor |
| Storage Controller | HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller |
| Internal Drive Support | 4 x LFF (3.5") hot-plug drive bays standard 4 x LFF second drive cage (optional) |
| Network Ports Standard | 2 x 1GbE |
| Network Adapter | Embedded 2-Port 1GbE HPE Ethernet 332i Adapter; PCIe NICs optional |
| Expansion Slots | 5 x PCIe (one slot occupied by Smart Array P408i-p controller) |
| Power | 1 x 500W Platinum standard; optional 2nd redundant power supply |
| Cooling | 2 non hot-plug redundant fans |
| Form Factor | 4.5U tower |
| Security | Lockable security bezel; Trusted Platform Module 2.0 optional |
| Additional Licenses | HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features Notes: For more information, visit: iLO Supported Servers and Features |

R7G19A and R7G20A

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Server IoT 2019 for Storage Standard Edition with HPE StoreEasy Management Console |
| Memory Standard | 16GB |
| Memory Type | 1 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Q2R96B and Q2R97B

| | |
|-------------------------|--|
| Operating System | Microsoft® Windows Storage Server 2016, Standard Edition with HPE StoreEasy Management Console |
| Memory Standard | 8GB |
| Memory Type | 1 x HPE 8GB Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Notes: Options listed in the steps below are limited to those recommended for use with StoreEasy 1560 Storage models.

For more information on the complete set of compatible options, please reference the ProLiant ML110 Gen10 QuickSpecs at:

<https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00021851enw>



Configuration Information

Step 1: Choose your HPE StoreEasy 1560 Storage model

All HPE StoreEasy 1560 SKUs are pre-configured Build-to-Order (BTO) models with RAID10 partitions across the four factory-installed drives for both the pre-installed operating system and the pre-configured file storage capacity. All options in the configuration steps below are not factory integrated and are shipped separately.

Notes:

- HPE strongly encourages customers to choose one of the new HPE StoreEasy 1560 Storage SKUs featuring the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system (R7G19A or R7G20A) since Microsoft will be moving the Windows Storage Server 2016 Standard Edition operating system to their Extended Support phase starting in January of 2022. For more information, please visit <https://docs.microsoft.com/en-us/lifecycle/policies/fixed>
- All model names are based on raw storage capacity, not available user storage.
- The pre-configured file storage partition is set up as RAID10 across all four factory-installed drives; it can be reconfigured, but as a best practice, HPE recommends only RAID10 or RAID6 for data partitions.

| Description | SKU |
|--|--------|
| HPE StoreEasy 1560 8TB SATA Storage with Microsoft Windows Server IoT 2019 Notes: (4 x 2TB SATA 6G Midline 7.2K LFF HDDs) | R7G19A |
| HPE StoreEasy 1560 16TB SATA Storage with Microsoft Windows Server IoT 2019 Notes: (4 x 4TB SATA 6G Midline 7.2K LFF HDDs) | R7G20A |
| HPE StoreEasy 1560 8TB SATA Storage with Microsoft Windows Storage Server 2016 Notes: (4 x 2TB SATA 6G Midline 7.2K LFF HDDs) | Q2R96B |
| HPE StoreEasy 1560 16TB SATA Storage with Microsoft Windows Storage Server 2016 Notes: (4 x 4TB SATA 6G Midline 7.2K LFF HDDs) | Q2R97B |

Step 2: Choose additional memory kit(s) (optional)

R7G19A and R7G20A only

HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit P00922-K21

Q2R96B and Q2R97B only

HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit P00918-K21

Notes: There are 6 DIMM slots available on the HPE StoreEasy 1560. All HPE StoreEasy 1560 models come with one processor and one DIMM standard.

Step 3: Choose a second drive cage (optional)

HPE ML110 Gen10 4LFF Drive Backplane Cage Kit 869491-B21

Notes: Adding the 2nd LFF drive cage requires adding the 2nd power supply (865408-B21).

Step 4: Choose drives for the second drive cage (optional)

HPE single drive options

HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD 861686-K21

HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD 861681-K21

HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD 861683-K21

HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD 861742-K21

HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD 834028-K21

HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD 881787-K21

Notes: As a best practice, HPE recommends ordering and installing 4 LFF drives for the 2nd drive cage that match the same capacity and type already installed in the first drive cage.



Configuration Information

Step 5: Choose an external storage controller to connect to external enclosures (optional)

| Description | SKU |
|---|------------|
| HPE Smart Array SAS Controllers | |
| HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller | 804398-B21 |
| HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller | 804405-B21 |
| HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU | Q2F26AAE |

Notes: If you wish to enable Data at Rest Encryption on the HPE StoreEasy 1560 using the included Smart Array P408i-p or with an optional Smart Array P408e-p listed above, you must order the optional HPE Smart Array SR Secure Encryption E-LTU (SKU Q2F26AAE).

HPE Special Reminder

Before enabling encryption on the Smart Array controller module on this system, you must ensure that your intended use of the encryption complies with relevant local laws, regulations and policies, and approvals or licenses must be obtained if applicable.

For any compliance issues arising from your operation/usage of encryption within the Smart Array controller module which violates the above-mentioned requirement, you shall bear all the liabilities wholly and solely. Hewlett Packard Enterprise will not be responsible for any related liabilities.

For more information see the [HPE Smart Array SR Secure Encryption QuickSpecs](#).

Step 6: Choose additional network adapter(s) (optional)

Notes: SFP and SFP+ Adapters do not include a transceiver by default.

SFP transceiver(s) or direct connect cable(s) should be ordered according to the transceiver and cable compatibility matrix found at:

<https://www.hpe.com/us/en/pdfViewer.html?resource=/content/hpe/country/us/en/resources/servers/reference-guide/transceiver-networking-server&parentPage=/us/en/products/servers/networking>

PCIe Network Adapters

| | |
|--|------------|
| HPE StoreEasy 10GbE 2-port 530T Adapter | Q2P91A |
| HPE StoreEasy 10GbE 2-port 530SFP+ Adapter | Q2P92A |
| HPE Ethernet 1Gb 2-port BASE-T BCM5720 Adapter | 615732-B21 |
| HPE Ethernet 1Gb 4-port BASE-T BCM5719 Adapter | 647594-B21 |

Step 7: Choose the HPE Trusted Platform Module (optional)

| | |
|--|------------|
| HPE Trusted Platform Module 2.0 Gen10 Option | 864279-B21 |
|--|------------|

Notes: HPE StoreEasy systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

Step 8: Choose a second power supply (optional)

| | |
|---|------------|
| HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit | 865408-B21 |
|---|------------|



Configuration Information

Step 9: Choose a System Recovery Media Kit (optional)

R7G19A and R7G20A only

HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Server IoT 2019 for Storage R7G47B

Q2R96B and Q2R97B only

HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Storage Server 2016 Q2P95B

Notes:

- HPE StoreEasy 1X60 Recovery Software Media Kits contain a System Recovery USB key that is used to re-install the factory operating system image. Booting the system from the System Recovery media 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 HPE StoreEasy 1X60 Administrator Guide for more information on performing a System Recovery.
- Alternatively, the HPE StoreEasy 1X60 Recovery Software image can be downloaded from the HPE's Software Depot at no charge. More information is available here: <https://myenterpriselicense.hpe.com/cwp-ui/free-software/>.
- For more information on how to perform a system recovery on a HPE StoreEasy 1560 refer to the HPE StoreEasy 1X60 Administrator's Guide. The guide can be downloaded from <http://www.hpe.com/support>. Select HPE Support Center and search for the HPE StoreEasy system model in the drivers and download section.
- 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. 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.



Configuration Information

HPE StoreEasy 1660 Storage

Common Specifications (all HPE StoreEasy 1660 Storage models)

| | |
|-------------------------------|--|
| Storage Controllers | HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller (for data drives); HPE Smart Array S100i SR Gen10 SW RAID (for mirrored OS drives only) |
| Internal Drive Support | 12 x LFF (3.5") hot-plug front drive bays standard; 4 x LFF hot-plug mid-chassis drive cage optional |
| Network Ports Standard | 4 x 1GbE |
| Network Adapter | HPE Ethernet 1Gb 4-port 366FLR FlexLOM Adapter; PCIe NIC(s) optional |
| Expansion Slots | 3 x PCIe; 3-slot secondary riser optional |
| Power | 2 x 800W Platinum hot-plug redundant |
| Cooling | 6 hot-plug, high-performance redundant fans |
| Form Factor | 2U rackmount |
| Security | 2U lockable security bezel; Trusted Platform Module 2.0 optional |
| Additional Licenses | HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features Notes: For more information, visit: iLO Supported Servers and Features |

R7G25A (Performance model)

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Server IoT 2019 for Storage Standard Edition with HPE StoreEasy Management Console |
| Processor | 1 x Intel® Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor; 2 nd processor optional |
| Memory Standard | 32GB |
| Memory Type | 2 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

R7G24A, R7G21A, R7G22A, and R7G23A

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Server IoT 2019 for Storage Standard Edition with HPE StoreEasy Management Console |
| Processor | 1 x Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor; 2 nd processor optional |
| Memory Standard | 16GB |
| Memory Type | 1 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Q2P71B (Performance model)

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Storage Server 2016 Standard Edition with HPE StoreEasy Management Console |
| Processor | 1 x Intel® Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor; 2 nd processor optional |
| Memory Standard | 16GB |
| Memory Type | 1 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Q2P72B, Q2P73B, Q2P74B, and Q2P75B

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Storage Server 2016 Standard Edition with HPE StoreEasy Management Console |
| Processor | 1 x Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor; 2 nd processor optional |
| Memory Standard | 16GB |
| Memory Type | 1 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Notes: Options listed in the steps below are limited to those recommended for use with StoreEasy 1660 Storage models. For more information on the complete set of compatible options, please reference the ProLiant DL380 Gen10 QuickSpecs at: <https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00008180enw>



Configuration Information

Step 1: Choose your HPE StoreEasy 1660 Storage model

Fixed configuration models

These HPE StoreEasy 1660 SKUs are pre-configured Build-to-Order (BTO) models with the operating system pre-installed on mirrored solid state drives and include eight data drives factory-installed in front slots (leaving four open front LFF slots for expansion). These models can be factory-racked, but all options in the configuration steps below (including additional data drives) are not factory integrated and are shipped separately.

Notes:

- HPE strongly encourages customers to choose one of the new HPE StoreEasy 1660 Storage SKUs featuring the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system (R7G21A, R7G22A, R7G23A, R7G24A, or R7G25A) since Microsoft will be moving the Windows Storage Server 2016 Standard Edition operating system to their Extended Support phase starting in January of 2022. For more information, please visit <https://docs.microsoft.com/en-us/lifecycle/policies/fixed>
- All model names are based on raw storage capacity, not available user storage.
- When adding drives to the any open LFF slots for the models below, Hewlett Packard Enterprise recommends as a best practice to use all internal data drives of the same type and capacity.
- The operating system is mirrored on two SFF (2.5”) solid state drives in a rear drive cage, leaving all three standard PCIe slots available for expansion.

| Description | SKU |
|---|--------|
| HPE StoreEasy 1660 16TB SAS Storage with Microsoft Windows Server IoT 2019 Notes: (8 x 2TB SAS 12G Midline 7.2K LFF HDDs) | R7G21A |
| HPE StoreEasy 1660 32TB SAS Storage with Microsoft Windows Server IoT 2019 Notes: (8 x 4TB SAS 12G Midline 7.2K LFF HDDs) | R7G22A |
| HPE StoreEasy 1660 64TB SAS Storage with Microsoft Windows Server IoT 2019 Notes: (8 x 8TB SAS 12G Midline 7.2K LFF HDDs) | R7G23A |
| HPE StoreEasy 1660 16TB SAS Storage with Microsoft Windows Storage Server 2016 Notes: (8 x 2TB SAS 12G Midline 7.2K LFF HDDs) | Q2P73B |
| HPE StoreEasy 1660 32TB SAS Storage with Microsoft Windows Storage Server 2016 Notes: (8 x 4TB SAS 12G Midline 7.2K LFF HDDs) | Q2P74B |
| HPE StoreEasy 1660 64TB SAS Storage with Microsoft Windows Storage Server 2016 Notes: (8 x 8TB SAS 12G Midline 7.2K LFF HDDs) | Q2P75B |

Configurable models

These HPE StoreEasy 1660 SKUs are Configure-to-Order (CTO) models with the operating system pre-installed on mirrored solid state drives and do not include data drives standard. These models can be factory-racked, and most added options (including data drives) can be factory integrated.

Notes: Hewlett Packard Enterprise recommends as a best practice that the internal data drives for the CTO models be the same type and capacity.

| | |
|---|--------|
| HPE StoreEasy 1660 Performance Storage with Microsoft Windows Server IoT 2019 | R7G25A |
| HPE StoreEasy 1660 Storage with Microsoft Windows Server IoT 2019 | R7G24A |
| HPE StoreEasy 1660 Performance Storage with Microsoft Windows Storage Server 2016 | Q2P71B |
| HPE StoreEasy 1660 Storage with Microsoft Windows Storage Server 2016 | Q2P72B |

Notes: The operating system is mirrored on two SFF (2.5”) solid state drives in a rear drive cage, leaving all three standard PCIe slots available for expansion.



Configuration Information

Step 2: Choose a second processor (optional)

R7G25A and Q2P71B only

Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit for HPE ProLiant DL380 Gen10 P02491-B21

R7G24A, R7G21A, R7G22A, R7G23A, Q2P72B, Q2P73B, Q2P74B, and Q2P75B only

Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor Kit for HPE ProLiant DL380 Gen10 P02489-B21

Step 3: Choose additional memory kit(s) (optional)

Description

HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit **SKU**
P00922-K21

Notes:

- There are 12 DIMM slots per processor for a total maximum of 24 DIMM slots. All HPE StoreEasy 1660 models come with one processor standard. R7G25A comes with 2 x 16GB DIMMs standard, while all other HPE StoreEasy 1660 SKUs come with one 16GB DIMM standard.
- Dual-processor HPE StoreEasy 1660 systems must have the same number and type of memory DIMMs installed for each processor.

Step 4: Choose a riser kit to add PCIe slots (optional)

HPE DL Gen10 x8/x16/x8 Riser Kit 870548-B21

Notes: Adds three PCIe slots; also requires addition of a second processor.

Step 5: Choose a drive cage to add LFF slots (optional)

HPE StoreEasy 1660 4LFF Midplane Drive Cage Q2P93A

Notes: Expands the total number of Large Form Factor (3.5") drive slots from 12 to 16.

Step 6: Choose internal storage drives (optional)

Drive Options

Maximum number of internal LFF drives supported

- 12 (in standard configuration)
- 16 (with optional mid-chassis 4LFF drive cage in step 5)

HPE StoreEasy 1660 LFF Drive Bundles

Business Critical (Midline) - 12G SAS

HPE StoreEasy 8TB SAS LFF (3.5in) Smart Carrier 4-pack HDD Bundle Q2P80A

Notes: Contains 4 x HPE 2TB SAS 12G 7.2K LFF HDDs (reference SKU 872485-K21)

HPE StoreEasy 16TB SAS LFF (3.5in) Smart Carrier 4-pack HDD Bundle Q2P81A

Notes: Contains 4 x HPE 4TB SAS 12G 7.2K LFF HDDs (reference SKU 861756-K21)

HPE StoreEasy 24TB SAS LFF (3.5in) Smart Carrier 4-pack HDD Bundle Q2P82A

Notes: Contains 4 x HPE 6TB SAS 12G 7.2K LFF HDDs (reference SKU 861754-K21)

HPE StoreEasy 32TB SAS LFF (3.5in) Smart Carrier 4-pack HDD Bundle N9Y12A

Notes: Contains 4 x HPE 8TB 12G SAS 7.2K LFF HDDs (reference SKU 861590-K21)

HPE StoreEasy 40TB SAS LFF (3.5in) Smart Carrier 4-pack HDD Bundle Q0F60A

Notes: Contains 4 x HPE 10TB 12G SAS 7.2K LFF HDDs (reference SKU 857644-K21)

HDDs

Business Critical (Midline) - 12G SAS

HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872485-K21



Configuration Information

| Description | SKU |
|--|------------|
| HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872487-K21 |
| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861754-K21 |
| HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD | 819201-K21 |
| HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | 857644-K21 |
| HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | 881779-K21 |
| HPE 14TB SAS 12G Business Critical 7.2K LFF (3.5in) SC 1yr Wty Helium 512e HDD | P09153-K21 |
| HPE 16TB SAS 12G Business Critical 7.2K LFF (3.5in) SC 1yr Wty 512e ISE HDD | P23863-K21 |
| HPE 18TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty 512e ISE HDD | P37664-K21 |
| HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861691-K21 |
| HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872489-K21 |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872491-K21 |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861750-K21 |
| HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD | 819203-K21 |
| HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | 857648-K21 |
| HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | 881785-K21 |
| HPE 14TB SATA 6G Business Critical 7.2K LFF (3.5in) SC 1yr Wty Helium 512e HDD | P09163-K21 |
| HPE 16TB SATA 6G Business Critical 7.2K LFF (3.5in) SC 1yr Wty 512e ISE HDD | P23857-K21 |
| HPE 18TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty 512e ISE HDD | P37673-K21 |

SSDs

Mixed Use - 6G SATA

| | |
|--|------------|
| HPE 480GB SATA 6G Mixed Use LFF SCC 5300M SSD | P19978-K21 |
| HPE 1.92TB SATA 6G Mixed Use LFF SCC 5300M SSD | P19982-K21 |

Notes:

- HPE Smart Array SR SmartCache is included standard with the HPE Smart Array P816i-a SR Gen10 Storage Controller. With the addition of at least one SSD (HPE recommends two 12G SAS Mixed Use SSDs), it can add a flash acceleration tier to the HPE StoreEasy 1660 to help increase performance for the most frequently accessed files. For more detailed information about HPE Smart Array SR SmartCache go to:
- The recommended maximum number of data SSDs for the HPE StoreEasy 1660 is 8; however, there is nothing architecturally that prevents the use of more than 8 SSDs.



Configuration Information

Step 7: Choose an external storage controller to connect to external enclosures (optional)

HPE Smart Array SAS Controllers

| | |
|---|------------|
| HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller | 804398-B21 |
| HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller | 804405-B21 |
| HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU | Q2F26AAE |

Notes: If you wish to enable Data at Rest Encryption on the HPE StoreEasy 1660 using the included Smart Array P816i-a or with an optional Smart Array P408e-p listed above, you must order the optional HPE Smart Array SR Secure Encryption E-LTU (SKU Q2F26AAE).

HPE Special Reminder: Before enabling encryption on the Smart Array controller module on this system, you must ensure that your intended use of the encryption complies with relevant local laws, regulations and policies, and approvals or licenses must be obtained if applicable.

For any compliance issues arising from your operation/usage of encryption within the Smart Array controller module which violates the above-mentioned requirement, you shall bear all the liabilities wholly and solely. Hewlett Packard Enterprise will not be responsible for any related liabilities.

For more information see the [HPE Smart Array SR Secure Encryption QuickSpecs](#).

Step 8: Choose additional network adapter(s) (optional)

Notes: SFP and SFP+ Adapters do not include a transceiver by default.

SFP transceiver(s) or direct connect cable(s) should be ordered according to the transceiver and cable compatibility matrix found at: <https://www.hpe.com/us/en/pdfViewer.html?resource=/content/hpe/country/us/en/resources/servers/reference-guide/transceiver-networking-server&parentPage=/us/en/products/servers/networking>

| Description | SKU |
|--|------------|
| PCIe Network Adapters | |
| HPE Ethernet 1Gb 2-port BASE-T BCM5720 Adapter | 615732-B21 |
| HPE StoreEasy 10GbE 2-port 530T Adapter | Q2P91A |
| HPE StoreEasy 10GbE 2-port 530SFP+ Adapter | Q2P92A |

Step 9: Choose the HPE Trusted Platform Module (optional)

| | |
|--|------------|
| HPE Trusted Platform Module 2.0 Gen10 Option | 864279-B21 |
|--|------------|

Notes: HPE StoreEasy systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

Step 10: Choose a System Recovery Media Kit (optional)

R7G25A, R7G24A, R7G21A, R7G22A, and R7G23A only

| | |
|--|--------|
| HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Server IoT 2019 for Storage | R7G47B |
|--|--------|

Q2P71B, Q2P72B, Q2P73B, Q2P74B, and Q2P75B only

| | |
|--|--------|
| HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Storage Server 2016 | Q2P95B |
|--|--------|

Notes:

- HPE StoreEasy 1X60 Recovery Software Media Kits contain a System Recovery USB key that is used to re-install the factory operating system image. Booting the system from the System Recovery media 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 HPE StoreEasy 1X60 Administrator Guide for more information on performing a System Recovery.



Configuration Information

- Alternatively, the HPE StoreEasy 1X60 Recovery Software image can be downloaded from the HPE's Software Depot at no charge. More information is available here: <https://myenterpriselicense.hpe.com/cwp-ui/free-software/>.
 - For more information on how to perform a system recovery on a HPE StoreEasy 1660 refer to the HPE StoreEasy 1X60 Administrator's Guide. The guide can be downloaded from <http://www.hpe.com/support>. Select HPE Support Center and search for the HPE StoreEasy system model in the drivers and download section.
 - 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. 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.
-



Configuration Information

HPE StoreEasy 1660 Expanded Storage

| Common Specifications (all HPE StoreEasy 1660 Expanded Storage models) | |
|--|---|
| Processor | 1 x Intel® Xeon-Silver 4208 (2.1GHz/8-core/85W); 2 nd processor optional |
| Memory Standard | 32GB |
| Memory Type | 2 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |
| Storage Controllers | HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller (for data drives) HPE Smart Array S100i SR Gen10 SW RAID (for mirrored OS drives only) |
| Internal Drive Support | 24 x LFF (3.5") hot-plug front drive bays standard 4 x LFF hot-plug rear drive cage standard |
| Network Ports Standard | 2 x 1GbE |
| Network Adapter | Embedded 2-Port 1GbE HPE Ethernet 332i Adapter; PCIe NIC(s) optional |
| Expansion Slots | 5 x PCIe (One available in 1P configuration; four available in 2P configuration) Notes: One PCIe slot occupied by M.2 SSD card used for boot drives (half-height, half-length riser). |
| Power | 2 x 1600W Platinum hot-plug redundant Notes: 1600W Flex Slot Platinum power supplies must be used with high-line input (200V - 240V AC). |
| Cooling | 10 fans |
| Form Factor | 2U rackmount |
| Security | 2U lockable security bezel; Trusted Platform Module 2.0 optional |
| Additional Licenses | HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features Notes: For more information, visit: iLO Supported Servers and Features |

R7G46A

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Server IoT 2019 for Storage Standard Edition with HPE StoreEasy Management Console |
|-------------------------|---|

R7L72A

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Storage Server 2016 Standard Edition with HPE StoreEasy Management Console |
|-------------------------|---|

Notes: Options listed in the steps below are limited to those recommended for use with StoreEasy 1660 Expanded Storage models.

For more information on the complete set of compatible options, please reference the Apollo 4200 Gen10 QuickSpecs at:

<https://h20195.www2.hp.com/v2/getdocument.aspx?docname=a00056091enw>



Configuration Information

Step 1: Choose your HPE StoreEasy 1660 Expanded Storage model

HPE StoreEasy 1660 Expanded Storage SKUs are Configure-to-Order (CTO) models with the operating system pre-installed on mirrored solid state drives and do not include data drives standard. They can be factory-racked, and most added options (including data drives) can be factory integrated.

Notes:

- HPE strongly encourages customers to choose the new HPE StoreEasy 1660 Expanded Storage SKU featuring the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system (R7G46A) since Microsoft will be moving the Windows Storage Server 2016 Standard Edition operating system to their Extended Support phase starting in January of 2022. For more information, please visit <https://docs.microsoft.com/en-us/lifecycle/policies/fixed>
- Hewlett Packard Enterprise recommends as a best practice that any drives added to the 28 open LFF slots be the same type and capacity.

| Description | SKU |
|--|--------|
| HPE StoreEasy 1660 Expanded Storage with Microsoft Windows Server IoT 2019 | R7G46A |
| HPE StoreEasy 1660 Expanded Storage with Microsoft Windows Storage Server 2016 | R7L72A |

Step 2: Choose a second processor (optional)

| | |
|---|------------|
| Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit for HPE Apollo 4200 Gen10. | P07903-B21 |
|---|------------|

Step 3: Choose additional memory kit(s) (optional)

| | |
|---|------------|
| HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit | P00922-K21 |
|---|------------|

Notes: There are 8 DIMM slots per processor for a total maximum of 16 DIMM slots. HPE StoreEasy 1660 Expanded models come with one processor and two 16GB DIMMs standard.

Step 4: Choose internal storage drives (optional)

Drive Options

Maximum number of internal LFF drives supported: 28

HPE StoreEasy 1660 Expanded LFF LP Drive Bundles

Business Critical (Midline) - 12G SAS

| | |
|--|--------|
| HPE StoreEasy 16TB SAS LFF (3.5in) Low Profile Carrier 4-pack HDD Bundle | N9Y43A |
|--|--------|

Notes: Contains 4 x HPE 4TB SAS LFF LP HDDs

| | |
|--|--------|
| HPE StoreEasy 32TB SAS LFF (3.5in) Low Profile Carrier 4-pack HDD Bundle | N9Y45A |
|--|--------|

Notes: Contains 4 x HPE 8TB SAS LFF LP HDDs

| | |
|--|--------|
| HPE StoreEasy 40TB SAS LFF (3.5in) Low Profile 4-pack HDD Bundle | Q0F61A |
|--|--------|

Notes: Contains 4 x HPE 10TB SAS LFF LP HDDs

| | |
|--|--------|
| HPE 56TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 4-pack HDD Bundle | R0R66A |
|--|--------|

Notes: Contains 4 x HPE 14TB SAS LFF LP HDDs

Business Critical (Midline) - 6G SATA

| | |
|---|--------|
| HPE StoreEasy 32TB SATA LFF (3.5in) Low Profile Carrier 4-pack HDD Bundle | N9Y46A |
|---|--------|

Notes: Contains 4 x HPE 8TB SATA LFF LP HDDs

| | |
|---|--------|
| HPE StoreEasy 40TB SATA LFF (3.5in) Low Profile 4-pack HDD Bundle | Q0F62A |
|---|--------|

Notes: Contains 4 x HPE 10TB SATA LFF LP HDDs

| | |
|---|--------|
| HPE StoreEasy 48TB SATA LFF (3.5in) Low Profile Carrier 4-pack HDD Bundle | Q2S06A |
|---|--------|

Notes: Contains 4 x HPE 12TB SATA LFF LP HDDs



Configuration Information

| Description | SKU |
|--|------------|
| HPE 56TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 4-pack HDD Bundle | R0R65A |
| Notes: Contains 4 x HPE 14TB SATA LFF LP HDDs | |
| HPE 64TB SATA 6G Midline 7.2K LFF LP 1-year Warranty 4-pack HDD Bundle | R7G98A |
| Notes: Contains 4 x HPE 16TB SATA LFF LP HDDs | |
| HPE single drive options | |
| HDDs | |
| Business Critical (Midline) - 12G SAS | |
| HPE 14TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD | P09155-K21 |
| HPE 16TB SAS 12G Business Critical 7.2K LFF (3.5in) LP 1yr Wty 512e ISE HDD | P23608-K21 |
| HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE HDD | P37669-K21 |
| Business Critical (Midline) - 6G SATA | |
| HPE 14TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD | P09165-K21 |
| HPE 16TB SATA 6G Business Critical 7.2K LFF (3.5in) LP 1yr Wty 512e ISE HDD | P23449-K21 |
| HPE 18TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE HDD | P37678-K21 |
| SSDs | |
| Mixed Use - 6G SATA | |
| HPE 960GB SATA 6G Mixed Use LFF LPC 5300M SSD | P19980-K21 |
| HPE 1.92TB SATA 6G Mixed Use LFF LPC 5300M SSD | P19984-K21 |
| Read Intensive - 6G SATA | |
| HPE 480GB SATA 6G Read Intensive LFF LPC 5300P SSD | P19974-K21 |
| HPE 960GB SATA 6G Read Intensive LFF LPC PM883 SSD | P09691-K21 |
| HPE 1.92TB SATA 6G Read Intensive LFF LPC 5300P SSD | P19976-K21 |

Notes:

- HPE Smart Array SR SmartCache is included standard with the HPE Smart Array P816i-a SR Gen10 Storage Controller. With the addition of at least one SSD (HPE recommends two 12G SAS Mixed Use SSDs), it can add a flash acceleration tier to the HPE StoreEasy 1660 Expanded to help increase performance for the most frequently accessed files. For more detailed information about HPE Smart Array SR SmartCache go to: <https://www.hpe.com/us/en/product-catalog/detail/pip.5364342.html>
- For options outside of those listed above, carefully select LFF low profile carrier (LP) hard disk drives and Low Profile Converter (LPC) solid state drives.

Step 5: Choose an external storage controller to connect to external enclosures (optional)

HPE Smart Array SAS Controllers

| | |
|---|------------|
| HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller | 804398-B21 |
| HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller | 804405-B21 |
| HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU | Q2F26AAE |

Notes: If you wish to enable Data at Rest Encryption on the HPE StoreEasy 1660 Expanded using the included Smart Array P816i-a or with an optional Smart Array P408e-p listed above, you must order the optional HPE Smart Array SR Secure Encryption E-LTU (SKU Q2F26AAE).

HPE Special Reminder

Before enabling encryption on the Smart Array controller module on this system, you must ensure that your intended use of the encryption complies with relevant local laws, regulations and policies, and approvals or licenses must be obtained if applicable.



Configuration Information

For any compliance issues arising from your operation/usage of encryption within the Smart Array controller module which violates the above-mentioned requirement, you shall bear all the liabilities wholly and solely. Hewlett Packard Enterprise will not be responsible for any related liabilities. For more information see the [HPE Smart Array SR Secure Encryption QuickSpecs](#).

Notes: For additional details and Smart Array controller options, please see [HPE Smart Array Gen10 Controllers Data Sheet](#).

Step 6: Choose additional network adapter(s) (optional)

Notes: SFP and SFP+ Adapters do not include a transceiver by default.

SFP transceiver(s) or direct connect cable(s) should be ordered according to the transceiver and cable compatibility matrix found at: <https://www.hpe.com/us/en/pdfViewer.html?resource=/content/hpe/country/us/en/resources/servers/reference-guide/transceiver-networking-server&parentPage=/us/en/products/servers/networking>

| Description | SKU |
|---|------------|
| PCIe Network Adapters | |
| HPE Ethernet 1Gb 2-port BASE-T BCM5720 Adapter | 615732-B21 |
| HPE Ethernet 1Gb 4-port BASE-T BCM5719 Adapter | 647594-B21 |
| HPE Ethernet 10Gb 2-port SFP+ 57810S Adapter | 652503-B21 |
| HPE Ethernet 10Gb 2-port BASE-T 57810S Adapter | 656596-B21 |
| HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter | 727055-B21 |
| HPE Ethernet 10Gb 2-port BASE-T BCM57416 Adapter | 813661-B21 |
| HPE Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter | 817738-B21 |
| HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter | 817718-B21 |
| HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter | 817753-B21 |
| HPE Ethernet 10/25Gb 2-port SFP28 QL41401-A2G Adapter | 867328-B21 |
| HPE Ethernet 100Gb 1-port QSFP28 MCX515A-CCAT Adapter | 874253-B21 |

Notes: If more than one PCIe card is added, a second processor is required to provide access to the remaining PCIe slots.

Step 7: Choose the HPE Trusted Platform Module (optional)

| | |
|--|------------|
| HPE Trusted Platform Module 2.0 Gen10 Option | 864279-B21 |
|--|------------|

Notes: HPE StoreEasy systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

Step 8: Choose a System Recovery Media Kit (optional)

R7G46A only

| | |
|--|--------|
| HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Server IoT 2019 for Storage | R7G47B |
|--|--------|

R7L72A only

| | |
|--|--------|
| HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Storage Server 2016 | Q2P95B |
|--|--------|

Notes:

- HPE StoreEasy 1X60 Recovery Software Media Kits contain a System Recovery USB key that is used to re-install the factory operating system image. Booting the system from the System Recovery media 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 HPE StoreEasy 1X60 Administrator Guide for more information on performing a System Recovery.
- Alternatively, the HPE StoreEasy 1X60 Recovery Software image can be downloaded from the HPE's Software Depot at no charge. More information is available here: <https://myenterpriselicense.hpe.com/cwp-ui/free-software/>.
- For more information on how to perform a system recovery on a StoreEasy 1660 Expanded refer to the HPE StoreEasy 1X60 Administrator's Guide. The guide can be downloaded from <http://www.hpe.com/support>. Select HPE Support Center and search for the HPE StoreEasy system model in the drivers and download section.



Configuration Information

- 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. 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.
-



Configuration Information

HPE StoreEasy 1860 Storage

| Common Specifications (all HPE StoreEasy 1860 Storage models) | |
|---|--|
| Storage Controllers | HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller (for data drives); HPE Smart Array S100i SR Gen10 SW RAID (for mirrored OS drives only) |
| Internal Drive Support | 24 x SFF (2.5") hot-plug front drive bays standard; 2 x SFF hot-plug rear-chassis drive cage optional |
| Network Ports Standard | 4 x 1GbE |
| Network Adapter | HPE Ethernet 1Gb 4-port 366FLR FlexLOM Adapter; PCIe NIC(s) optional |
| Expansion Slots | 3 x PCIe (two available); 3-slot secondary riser optional Notes: One PCIe slot is occupied by a SAS Expander |
| Power | 2 x 800W Platinum hot-plug redundant |
| Cooling | 6 hot-plug, high-performance redundant fans |
| Form Factor | 2U rackmount |
| Security | 2U lockable security bezel; Trusted Platform Module 2.0 optional |
| Additional Licenses | HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features Notes: For more information, visit: iLO Supported Servers and Features |

R7G29A (Performance model)

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Server IoT 2019 for Storage Standard Edition with HPE StoreEasy Management Console |
| Processor | 1 x Intel® Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor; 2 nd processor optional |
| Memory Standard | 32GB |
| Memory Type | 2 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

R7G28A

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Server IoT 2019 for Storage Standard Edition with HPE StoreEasy Management Console |
| Processor | 1 x Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor; 2 nd processor optional |
| Memory Standard | 16GB |
| Memory Type | 1 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Q2P76B (Performance model)

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Storage Server 2016 Standard Edition with HPE StoreEasy Management Console |
| Processor | 1 x Intel® Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor; 2 nd processor optional |
| Memory Standard | 16GB |
| Memory Type | 1 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Q2P77B, Q2P78B, and Q2P79B

| | |
|-------------------------|---|
| Operating System | Microsoft® Windows Storage Server 2016 Standard Edition with HPE StoreEasy Management Console |
| Processor | 1 x Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor; 2 nd processor optional |
| Memory Standard | 16GB |
| Memory Type | 1 x HPE 16GB Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory |

Notes: Options listed in the steps below are limited to those recommended for use with StoreEasy 1860 Storage models. For more information on the complete set of compatible options, please reference the ProLiant DL380 Gen10 QuickSpecs at: <https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00008180enw>



Configuration Information

Step 1: Choose your HPE StoreEasy 1860 Storage model

Fixed configuration models

These HPE StoreEasy 1860 SKUs are pre-configured Build-to-Order (BTO) models with the operating system pre-installed on mirrored solid state drives and include eight data drives factory-installed in front slots (leaving 16 open front SFF slots for expansion). These models can be factory-racked, but all options in the configuration steps below (including additional data drives) are not factory integrated and are shipped separately.

Notes:

- HPE strongly encourages customers to choose one of the new HPE StoreEasy 1860 Storage SKUs featuring the Microsoft Windows Server IoT 2019 for Storage Standard Edition operating system (R7G28A or R7G29A) since Microsoft will be moving the Windows Storage Server 2016 Standard Edition operating system to their Extended Support phase starting in January of 2022. For more information, please visit <https://docs.microsoft.com/en-us/lifecycle/policies/fixed>
- All model names are based on raw storage capacity, not available user storage.
- When adding drives to the any of the 16 open SFF 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.
- The operating system is mirrored on two SFF (2.5”) solid state drives in a rear drive cage, leaving two standard PCIe slots available for expansion (one PCIe slot is occupied by a SAS Expander).

Description

| | |
|---|----------------------|
| HPE StoreEasy 1860 9.6TB SAS Storage with Microsoft Windows Storage Server 2016 | SKU Q2P78B |
|---|----------------------|

Notes: (8 x 1.2TB SAS 12G Enterprise 10K SFF HDDs)

| | |
|--|--------|
| HPE StoreEasy 1860 14.4TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P79B |
|--|--------|

Notes:(8 x 1.8TB SAS 12G Enterprise 10K SFF HDDs)

Configurable models

These HPE StoreEasy 1860 SKUs are Configure-to-Order (CTO) models with the operating system pre-installed on mirrored solid state drives and do not include data drives standard. These models can be factory-racked, and most added options (including data drives) can be factory integrated.

Notes: Hewlett Packard Enterprise recommends as a best practice that the internal data drives for the CTO models be the same type and capacity.

| | |
|---|--------|
| HPE StoreEasy 1860 Performance Storage with Microsoft Windows Server IoT 2019 | R7G29A |
|---|--------|

| | |
|---|--------|
| HPE StoreEasy 1860 Storage with Microsoft Windows Server IoT 2019 | R7G28A |
|---|--------|

| | |
|---|--------|
| HPE StoreEasy 1860 Performance Storage with Microsoft Windows Storage Server 2016 | Q2P76B |
|---|--------|

| | |
|---|--------|
| HPE StoreEasy 1860 Storage with Microsoft Windows Storage Server 2016 | Q2P77B |
|---|--------|

Notes: The operating system is mirrored on two SFF (2.5”) solid state drives in a rear drive cage, leaving two standard PCIe slots available for expansion (one PCIe slot is occupied by a SAS Expander).

Step 2: Choose a second processor (optional)

R7G29A and Q2P76B only

| | |
|---|------------|
| Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit for HPE ProLiant DL380 Gen10 | P02491-B21 |
|---|------------|

R7G28A, Q2P77B, Q2P78B, and Q2P79B only

| | |
|---|------------|
| Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor Kit for HPE ProLiant DL380 Gen10 | P02489-B21 |
|---|------------|

Step 3: Choose additional memory kit(s) (optional)

| | |
|---|------------|
| HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit | P00922-K21 |
|---|------------|

Notes:

- There are 12 DIMM slots per processor for a total maximum of 24 DIMM slots. All HPE StoreEasy 1860 models come with one processor standard. R7G29A comes with 2 x 16GB DIMMs standard, while all other HPE StoreEasy 1860 SKUs come with one 16GB DIMM standard.



Configuration Information

- Dual-processor HPE StoreEasy 1860 systems must have the same number and type of memory DIMMs installed for each processor.

Step 4: Choose a riser kit to add PCIe slots (optional)

Description

HPE DL Gen10 x8/x16/x8 Riser Kit

SKU

870548-B21

Notes:

- Adds three PCIe slots; also requires addition of a second processor.
- If the riser kit is selected, the optional rear HDD cage (826688-B21) cannot be selected.

Step 5: Choose a drive cage to add SFF slots (optional)

Notes: If the drive cage is selected, the optional riser kit (870548-B21) cannot be selected.

HPE DL38X Gen10 2SFF HDD SAS/SATA Riser Kit

826688-B21

Notes: Expands the number of Small Form Factor (2.5") drive slots from 24 to 26 and adds a PCIe slot.

Step 6: Choose internal storage drives (optional)

Drive Options

Maximum number of internal SFF drives supported

- 24 (in standard configuration)
- 26 (with optional 2xSFF drive cage in step 5)

HPE StoreEasy 1860 SFF Drive Bundles

Mission Critical (Enterprise) - 12G SAS

HPE StoreEasy 4.8TB SAS SFF (2.5in) Smart Carrier 4-pack HDD Bundle

Q2P84A

Notes: Contains 4 x HPE 1.2TB SAS 12G Enterprise 10K SFF HDDs (reference SKU 872479-K21)

HPE StoreEasy 7.2TB SAS SFF (2.5in) Smart Carrier 4-pack HDD Bundle

Q2P85A

Notes: Contains 4 x HPE 1.8TB SAS 12G Enterprise 10K SFF HDDs (reference SKU 872481-K21)

HDDs

Mission Critical (Enterprise) - 12G SAS

HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD

870753-K21

HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD

872475-K21

HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD

872477-K21

HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD

872479-K21

HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD

872481-K21

HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD

881457-K21

SSDs

Mixed Use - 12G SAS

HPE 800GB SAS 12G Mixed Use SFF SC PM1645a SSD

P19913-K21

HPE 1.6TB SAS 12G Mixed Use SFF SC PM1645a SSD

P19915-K21

HPE 3.2TB SAS 12G Mixed Use SFF SC PM1645a SSD

P19917-K21



Configuration Information

| Description | SKU |
|--|------------|
| Read Intensive - 12G SAS | |
| HPE 960GB SAS 12G Read Intensive SFF SC PM1643a SSD | P19903-K21 |
| HPE 1.92TB SAS 12G Read Intensive SFF SC PM1643a SSD | P19905-K21 |

Notes:

- HPE Smart Array SR SmartCache is included standard with the HPE Smart Array P816i-a SR Gen10 Storage Controller. With the addition of at least one SSD (HPE recommends two 12G SAS Mixed Use SSDs), it can add a flash acceleration tier to the HPE StoreEasy 1860 to help increase performance for the most frequently accessed files. For more detailed information about HPE Smart Array SR SmartCache go to: <https://www.hpe.com/us/en/product-catalog/detail/pip.5364342.html>
- The recommended maximum number of data SSDs for the HPE StoreEasy 1860 is 8; however, there is nothing architecturally that prevents the use of more than 8 SSDs. HPE recommends the use of SAS SSDs as the HPE StoreEasy 1860 includes a SAS expander, which may impact SATA SSD performance.

Step 7: Choose an external storage controller to connect to external enclosures (optional)

HPE Smart Array SAS Controllers

| | |
|---|------------|
| HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller | 804398-B21 |
| HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller | 804405-B21 |
| HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU | Q2F26AAE |

Notes: If you wish to enable Data at Rest Encryption on the HPE StoreEasy 1860 using the included Smart Array P816i-a or with an optional Smart Array P408e-p listed above, you must order the optional HPE Smart Array SR Secure Encryption E-LTU (SKU Q2F26AAE).

HPE Special Reminder

Before enabling encryption on the Smart Array controller module on this system, you must ensure that your intended use of the encryption complies with relevant local laws, regulations and policies, and approvals or licenses must be obtained if applicable. For any compliance issues arising from your operation/usage of encryption within the Smart Array controller module which violates the above-mentioned requirement, you shall bear all the liabilities wholly and solely. Hewlett Packard Enterprise will not be responsible for any related liabilities.

For more information see the [HPE Smart Array SR Secure Encryption QuickSpecs](#).

Step 8: Choose additional network adapter(s) (optional)

Notes: SFP and SFP+ Adapters do not include a transceiver by default.

SFP transceiver(s) or direct connect cable(s) should be ordered according to the transceiver and cable compatibility matrix found at:

<https://www.hpe.com/us/en/pdfViewer.html?resource=/content/hpe/country/us/en/resources/servers/reference-guide/transceiver-networking-server&parentPage=/us/en/products/servers/networking>

PCIe Network Adapters

| | |
|--|------------|
| HPE Ethernet 1Gb 2-port BASE-T BCM5720 Adapter | 615732-B21 |
| HPE StoreEasy 10GbE 2-port 530T Adapter | Q2P91A |
| HPE StoreEasy 10GbE 2-port 530SFP+ Adapter | Q2P92A |



Configuration Information

Step 9: Choose the HPE Trusted Platform Module (optional)

Description

HPE Trusted Platform Module 2.0 Gen10 Option

SKU

864279-B21

Notes: HPE StoreEasy systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

Step 10: Choose a System Recovery Media Kit (optional)

R7G29A and R7G28A only

HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Server IoT 2019 for Storage

R7G47B

Q2P76B, Q2P77B, Q2P78B, and Q2P79B only

HPE StoreEasy 1X60 Recovery Software Media Kit for Microsoft Windows Storage Server 2016

Q2P95B

Notes:

- HPE StoreEasy 1X60 Recovery Software Media Kits contain a System Recovery USB key that is used to re-install the factory operating system image. Booting the system from the System Recovery media 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 HPE StoreEasy 1X60 Administrator Guide for more information on performing a System Recovery.
- Alternatively, the HPE StoreEasy 1X60 Recovery Software image can be downloaded from the HPE's Software Depot at no charge. More information is available here: <https://myenterpriselicense.hpe.com/cwp-ui/free-software/>.
- For more information on how to perform a system recovery on a HPE StoreEasy 1860 refer to the HPE StoreEasy 1X60 Administrator's Guide. The guide can be downloaded from <http://www.hpe.com/support>. Select HPE Support Center and search for the HPE StoreEasy system model in the drivers and download section.
- 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. 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.



Configuration Information

HPE StoreEasy 1X60 Storage Upgrade Kit to Microsoft Windows Server IoT 2019 for Storage Standard Edition Operating System

| Specifications | |
|----------------------|---|
| Contents | New Microsoft Certificate of Authenticity (COA) sticker plus documentation containing directions for downloading the bootable image for installing Microsoft Windows Server IoT 2019 for Storage Standard Edition. Notes: Physical media is not included. |
| Compatibility | Sixth-generation StoreEasy 1000 Storage models (1460, 1560, 1660, 1660 Expanded, and 1860) that shipped with Microsoft Windows Storage Server 2016 Standard Edition are eligible for upgrade. The upgrade kit is compatible only with the following StoreEasy 1X60 Storage system SKUs: |

Description

SKU

Active Products

| | |
|---|--------|
| HPE StoreEasy 1460 8TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R92B |
| HPE StoreEasy 1460 16TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R93B |
| HPE StoreEasy 1460 32TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R94B |
| HPE StoreEasy 1560 8TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R96B |
| HPE StoreEasy 1560 16TB SATA Storage with Microsoft Windows Storage Server 2016 | Q2R97B |
| HPE StoreEasy 1660 Performance Storage with Microsoft Windows Storage Server 2016 | Q2P71B |
| HPE StoreEasy 1660 Storage with Microsoft Windows Storage Server 2016 | Q2P72B |
| HPE StoreEasy 1660 16TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P73B |
| HPE StoreEasy 1660 32TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P74B |
| HPE StoreEasy 1660 64TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P75B |
| HPE StoreEasy 1660 Expanded Storage | R0R67A |
| HPE StoreEasy 1660 Expanded Storage with Microsoft Windows Storage Server 2016 | R7L72A |
| HPE StoreEasy 1860 Performance Storage with Microsoft Windows Storage Server 2016 | Q2P76B |
| HPE StoreEasy 1860 Storage with Microsoft Windows Storage Server 2016 | Q2P77B |
| HPE StoreEasy 1860 9.6TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P78B |
| HPE StoreEasy 1860 14.4TB SAS Storage with Microsoft Windows Storage Server 2016 | Q2P79B |

Obsolete Products*

Notes: *No longer available for purchase, informational only

- HPE StoreEasy 1460 8TB SATA Storage (Q2R92A)
- HPE StoreEasy 1460 16TB SATA Storage (Q2R93A)
- HPE StoreEasy 1460 32TB SATA Storage (Q2R94A)
- HPE StoreEasy 1560 8TB SATA Storage (Q2R96A)
- HPE StoreEasy 1560 16TB SATA Storage (Q2R97A)
- HPE StoreEasy 1660 Performance Storage (Q2P71A)
- HPE StoreEasy 1660 Storage (Q2P72A)
- HPE StoreEasy 1660 16TB SAS Storage (Q2P73A)
- HPE StoreEasy 1660 32TB SAS Storage (Q2P74A)



Configuration Information

- HPE StoreEasy 1660 64TB SAS Storage (Q2P75A)
- HPE StoreEasy 1860 Performance Storage (Q2P76A)
- HPE StoreEasy 1860 Storage (Q2P77A)
- HPE StoreEasy 1860 9.6TB SAS Storage (Q2P78A)
- HPE StoreEasy 1860 14.4TB SAS Storage (Q2P79A)

Notes:

- The Microsoft Windows Server IoT 2019 for Storage Standard Edition upgrade kit contains directions to download bootable software (physical media is not included) that will re-image the operating system and revert the StoreEasy system to a factory default state. User data on the operating system partition will be destroyed in the upgrade process, so backup / migration / restore planning should be executed manually.
- The Microsoft Windows Server IoT 2019 for Storage Standard Edition upgrade kit also contains a new Microsoft Certificate of Authenticity (COA) sticker that must be physically applied to the StoreEasy system as part of the upgrade process.

Description

HPE StoreEasy Standard Edition Upgrade Kit with Microsoft Windows Server IoT 2019

SKUR7G45B



Technical Specifications

| Processors | | | | |
|---|--------------------|---|---|---|
| HPE StoreEasy 1460 | HPE StoreEasy 1560 | HPE StoreEasy 1660 | HPE StoreEasy 1660 Expanded | HPE StoreEasy 1860 |
| Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor | | <u>R7G24A, R7G21A, R7G22A, R7G23A, Q2P72B, Q2P73B, Q2P74B, and Q2P75B</u> Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor | Intel® Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor | <u>R7G28A, Q2P77B, Q2P78B, and Q2P79B</u> Intel® Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor |
| | | <u>R7G25A and Q2P71B</u> Intel® Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor | | <u>R7G29A and Q2P76B</u> Intel® Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor |

| Memory | | | | | |
|--------------|--|---|--|-----------------------------|--|
| | HPE StoreEasy 1460 | HPE StoreEasy 1560 | HPE StoreEasy 1660 | HPE StoreEasy 1660 Expanded | HPE StoreEasy 1860 |
| Type | DDR4-2933 CAS-21-21-21 Registered (RDIMM) Smart Memory | | | | |
| Standard | <u>R7G16A, R7G17A, and R7G18A:</u> 16GB (1 x 16GB) | <u>R7G19A and R7G20A:</u> 16GB (1 x 16GB) | <u>R7G25A:</u> 32GB (2 x 16GB) | 32GB (2 x 16GB) | <u>R7G29A:</u> 32GB (2 x 16GB) |
| | <u>Q2R92B, Q2R93B, and Q2R94B:</u> 8GB (1 x 8GB) | <u>Q2R96B and Q2R97B:</u> 8GB (1 x 8GB) | <u>R7G24A, R7G21A, R7G22A, R7G23A, Q2P71B, Q2P72B, Q2P73B, Q2P74B, and Q2P75B:</u> 16GB (1 x 16GB) | | <u>R7G28A, Q2P76B, Q2P77B, Q2P78B, and Q2P79B:</u> 16GB (1 x 16GB) |
| DIMM Sockets | 24 | 6 | 24 | 16 | 24 |
| Maximum | 24TB (limit based on operating system license) | | | | |



Technical Specifications

| Networking | | | | | |
|-------------------|------------------------------------|---------------------|------------------------------------|-----------------------------|--|
| | HPE StoreEasy 1460 | HPE StoreEasy 1560 | HPE StoreEasy 1660 | HPE StoreEasy 1660 Expanded | HPE StoreEasy 1860 |
| NIC Ports | 4 | 2 | 4 | 2 | 4 |
| Controller | 1Gb Ethernet 4-port 366FLR FlexLOM | 1Gb Ethernet 2-port | 1Gb Ethernet 4-port 366FLR FlexLOM | 1Gb Ethernet 2-port | 1Gb Ethernet 4-port 366FLR FlexLOM Q2R76A only 10Gb Ethernet 2-port 562FLR-T FlexLOM + 1Gb Ethernet 4-port embedded |

| HPE StoreEasy 1460 | | | | | |
|--|------------|-----------|-----------------|---|--------|
| Primary PCIe Riser | | | | | |
| Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
| 1 | PCIe 3.0 | X16 | X16 | Full-height, 3/4-length (up to 9.5in) slot | Proc 1 |
| 2 | PCIe 3.0 | X8 | X8 | Low-Profile slot | Proc 1 |
| HPE StoreEasy 1460 - Secondary PCIe Riser (optional) | | | | | |
| Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
| 3 | PCIe 3.0 | X16 | X16 | Low Profile or Full-height; 3/4 length (up to 9.5") | Proc 2 |

| HPE StoreEasy 1560 | | | | | |
|--------------------|------------|-----------|-----------------|---|---|
| PCIe slots | | | | | |
| Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
| 1 | PCIe 3.0 | X16 | X16 | Full-height, ¾ length (up to 9.5") Slot | Proc 1 |
| 2 | PCIe 3.0 | X4 | X8 | Full-height, half-length slot | Proc 1 |
| 3 | PCIe 3.0 | x8 | x8 | Full-height, half-length slot | Proc 1 (occupied by Smart Array P408i-p Controller) |
| 4 | PCIe 3.0 | X16 | X16 | Full-height, full-length slot | Proc 1 |
| 5 | PCIe 3.0 | X4 | x8 | Full-height, half-length slot | PCH |



Technical Specifications

HPE StoreEasy 1660/1860

Primary PCIe Riser

| Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
|-------------------|------------|-----------|-----------------|-------------------------------|--|
| 1 | PCIe 3.0 | x8 | X8 | Full-height, full-length slot | Proc 1 |
| 2 | PCIe 3.0 | X16 | x16 | Full-height, full-length slot | Proc 1 (Occupied by SAS Expander on HPE StoreEasy 1860 models) |
| 3 | PCIe 3.0 | x8 | x8 | Full-height, half-length slot | Proc 1 |

HPE StoreEasy 1660/1860 Secondary

PCIe Riser

| Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
|-------------------|------------|-----------|-----------------|-------------------------------|--------|
| 4 | PCIe 3.0 | x8 | x8 | Full height, full length slot | Proc 2 |
| 5 | PCIe 3.0 | x16 | x16 | Full height, full length slot | Proc 2 |
| 6 | PCIe 3.0 | x8 | x8 | Full-height, half-length slot | Proc 2 |

HPE StoreEasy 1660 Expanded -

PCIe slots

| Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
|-------------------|------------|-----------|-----------------|-------------|-------------------------------------|
| 1 | PCIe 3.0 | x16 | x16 | Low profile | Proc 1 (Occupied by M.2 riser card) |
| 2 | PCIe 3.0 | x24 | x24 | Low profile | Proc 1 |
| 5 | PCIe 3.0 | x8 | x8 | Low profile | Proc 2 |
| 6 | PCIe 3.0 | x24 | x24 | Low profile | Proc 2 |
| 7 | PCIe 3.0 | x16 | x16 | Low profile | Proc 2 |



Technical Specifications

| Storage Controller | | | | | |
|--|---|---|---|--|--|
| | HPE StoreEasy 1460 | HPE StoreEasy 1560 | HPE StoreEasy 1660 | HPE StoreEasy 1660 Expanded | HPE StoreEasy 1860 |
| Controller(s) | HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes 2GB Cache / SmartCache) 12G SAS Modular Controller for data and OS drives | HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes 2GB Cache / SmartCache) 12G SAS Modular Controller for data and OS drives | HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache / SmartCache) 12G SAS Modular Controller for data drives; HPE Smart Array S100i SR Gen10 SW RAID for OS drives only | | |
| RAID (for data drives) | RAID 0, 1, 5, 6, 10, 50, 60, 1 ADM, 10 ADM (Advanced Data Mirroring) Not all RAID levels recommended or supported on HPE StoreEasy | | | | |
| Internal SAS connectors | 8 SAS lanes across 2 x4 internal Mini-SAS ports | | 16 SAS lanes across 4 x4 internal Mini-SAS ports | | |
| External SAS connectors | None | | | | |
| Data at Rest Encryption Support | Optional HPE Smart Array SR Secure Encryption E-LTU (SKU Q2F26AAE) | | | | |
| Internal | 4 LFF (3.5") hot-plug bays in front | 4 LFF (3.5") hot-plug bays standard and 4 additional LFF (3.5") hot-plug bays optional (total of 8 internal LFF bays maximum) | 12 LFF (3.5") hot-plug bays in front and optional 4 LFF hot-plug bays in mid-chassis drive cage (total of 16 internal LFF bays maximum) | 24 LFF (3.5") hot-plug bays in front and 4 LFF hot-plug bays in rear (total of 28 internal LFF bays maximum) | 24 SFF (2.5") hot-plug bays in front and optional 2 SFF hot-plug bays in rear drive cage (total of 26 SFF internal bays maximum) |
| Carrier type | Smart Carrier (SC) | Low Profile (LP) | Smart Carrier LFF (SC) | Low Profile (LP) | Smart Carrier SFF (SC) |
| External | Support for external D3X10, D6020, and D8000 Disk Enclosures requires optional Smart Array controller with external port | | | | |
| Maximum Internal Capacity (raw) | 32TB | 64TB (with optional 4LFF drive cage and 4 x 12TB HDDs) | 288TB (with optional 4LFF mid-chassis cage and 16 x 18TB LFF HDDs) | 504TB (with 28 x 18TB LFF HDDs) | 62.4TB (with optional 2SFF rear cage and 26 x 2.4TB SFF HDDs) |



Technical Specifications

| Power & Cooling | | | | | |
|--|---|--|--|--|--|
| Power Supplies | 1 x 500 Watts Platinum, hot-plug (2 nd redundant power supply optional) | 1 x 500 Watts Platinum, hot-plug (2 nd redundant power supply optional) | 2 x 800 Watts Platinum, hot-plug | 2 x 1600 Watts Platinum hot-plug (high-line input 200V - 240V AC only) | 2 x 800 Watts Platinum, hot-plug |
| Power Cords | One high voltage power cords (IEC C13 to C14) standard; two if second power supply added | One 6-foot 10A, C13 U.S. Power cord; see notes | Two high voltage power cords (IEC C13 to C14) standard | Two high voltage power cords (IEC C13 to C14) standard | Two high voltage power cords (IEC C13 to C14) standard |
| Notes: | | | | | |
| <ul style="list-style-type: none"> – HPE StoreEasy 1460, 1660, 1660 Expanded and 1860 models ship with a standard 6-foot IEC C-13/C-14 jumper cord. This jumper cord is also included with each standard AC power supply option kit. – The HPE StoreEasy 1560 model comes with a standard 6-foot 10A, C13—U.S. power cord (AF556A). If you order the optional 2nd power supply you must order also order AF556A to get the above power cord. – If different power cords are required for any HPE StoreEasy 1000 model, please check ProLiant Power Cables to determine what power cord options are available. | | | | | |
| System Fans | Single processor system includes 5 hot-plug, redundant fans, standard Dual processor system includes 7 hot-plug redundant fans | 2 non hot-plug redundant fans, standard | 6 hot-plug, high-performance, redundant fans, standard | 10 hot-plug, high-performance redundant fans standard | 6 hot-plug, high-performance, redundant fans, standard |

Additional options

See the corresponding ProLiant and Apollo 4000 QuickSpecs for additional compatible options.

- HPE StoreEasy 1460 (ProLiant DL360 Gen 10)
<https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00008159enw>
- HPE StoreEasy 1560 (ProLiant ML110 Gen 10)
<https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00021851enw>
- HPE StoreEasy 1660 (ProLiant DL380 Gen10 LFF),
- HPE StoreEasy 1860 (ProLiant DL380 Gen10 SFF):
<https://h20195.www2.hpe.com/v2/Getdocument.aspx?docname=a00008180enw>
- HPE StoreEasy 1660 Expanded (Apollo 4200 Gen10 LFF)
<https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00056091enw>

Notes: Options offered in the HPE ProLiant and Apollo servers listed above will work in respective HPE StoreEasy products if supported on Windows Server 2016 Standard Edition / Windows Server 2019 Standard Edition.

Because HPE StoreEasy is a storage system, not every possible option available in the equivalent ProLiant server is listed in the HPE StoreEasy 1000 QuickSpecs. Options that are shown in this document are the most common and recommended ones needed for the primary HPE StoreEasy usage model as a file storage system.



Technical Specifications

| HPE StoreEasy 1000 Storage Common System Specifications | | |
|---|---|---|
| System Inlet Temperature | Standard Operating Support | <p>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.</p> <p>System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).</p> <p>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.hpe.com/servers/ashrae</p> |
| | Extended Ambient Operating Support | <p>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.hpe.com/servers/ashrae</p> <p>System performance may be reduced if operating in the extended ambient operating range or with a fan fault.</p> |
| | 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 | 8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing. |
| | Non-operating | 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing. |
| Altitude | Operating | 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). |
| Emissions Classification (EMC) | To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center: http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts | |



Technical Specifications

| HPE StoreEasy 1460 Storage | | | |
|---|--|--|------------------------------|
| Dimensions | 4.29 x 43.46 x 74.98 cm 1.69 x 17.11 x 29.5 in | | |
| Weight (approximate) | 16.78 kg 37 lb | Four LFF drives, two processors, two power supplies, two heatsinks, one Smart Array controller and seven fans. | |
| Input Requirements (per power supply) | Rated Line Voltage | 100 to 120 VAC 200 to 240 VAC | |
| | Rated Input Frequency | 50 to 60 Hz | |
| | Rated Input Power | < 557 W (at 100 VAC); < 537 W (at 240 VAC) | |
| BTU Rating | Maximum | 1902 BTU/hr (at 100 VAC); 1832 BTU/hr (at 240 VAC) | |
| Power Supply Output (per power supply) | Maximum Rated Output Wattage Rating (Watts) | 500W (at 100 VAC); 500W (at 240 VAC) | |
| Acoustic Noise | Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below. | | |
| | | Minimum (Entry) | Maximum (Performance) |
| | Idle | | |
| | LWAd | 5.1 B | 5.2 B |
| | LpAm | 35 dBA | 36 dBA |
| | Operating | | |
| | LWAd | 5.3 B | 5.9 B |
| | LpAm | 36 dBA | 45 dBA |
| Notes: Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only. | | | |



Technical Specifications

| HPE StoreEasy 1560 Storage | | |
|--|--|--|
| Tower Dimensions | 44 x 19.5 x 48.05 cm 17.32 x 7.68 x 18.92 in | |
| Tower Weight (approximate) | Maximum: | 55.0 lbs (25.0 kg) |
| Input Requirements (per power supply) | Rated Line Voltage | 100 to 120 VAC 200 to 240 VAC |
| | Rated Input Frequency | 50 to 60 Hz |
| | Rated Input Power | < 557 W (at 100 VAC); < 537 W (at 240 VAC) |
| BTU Rating | Maximum | 1902 BTU/hr (at 100 VAC); 1832 BTU/hr (at 240 VAC) |
| Power Supply Output (per power supply) | Maximum Rated Output Wattage Rating (Watts) | 500W (at 100 VAC); 500W (at 240 VAC) |
| Acoustic Noise | Listed are the declared A-Weighted sound power levels (L_{WAd}) and declared average bystander position A-Weighted sound pressure levels (L_{pAm}) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below. | |
| | Idle | |
| | LWAd | 4.0 Bels Entry 4.0 Bels Perf |
| | LpAm | 24.8 dBA Entry 24.1 dBA Perf |
| | Operating | |
| | LWAd | 4.0 Bels Entry 4.0 Bels Perf |
| | LpAm | 25.1 dBA Entry 24.1 dBA Perf |
| | Notes: Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only. | |



Technical Specifications

| HPE StoreEasy 1660 Storage and 1860 Storage | | | |
|--|--|-------------------|---|
| Dimensions | 8.73 x 44.54 x 73.02 cm 3.44 x 17.54 x 28.75 in | | StoreEasy 1660 (LFF Drives) |
| | 8.73 x 44.54 x 67.94 cm 3.44 x 17.54 x 26.75 in | | StoreEasy 1860 (SFF Drives) |
| | Maximum | 24.5 kg 54 lbs | 12 LFF hard drives (no rear drives), 2x processors, 2x power supplies, 1x Smart Array, 2x Risers installed) |
| Input Requirements (per power supply) | Rated Line Voltage | | 100 to 120 VAC 200 to 240 VAC |
| | Rated Input Frequency | | 50 to 60 Hz |
| | Rated Input Power | | < 899 W (at 100 VAC); < 864 W (at 240 VAC) |
| BTU Rating | Maximum | | 3067 BTU/hr (at 100 VAC); 2949 BTU/hr (at 240 VAC) |
| Power Supply Output (per power supply) | Maximum Rated Output Wattage Rating (Watts) | | 800W (at 100 VAC); 800W (at 240 VAC) |
| Acoustic Noise | | | |
| Listed are the declared A-Weighted sound power levels ($L_{WA,d}$) and declared average bystander position A-Weighted sound pressure levels (L_{pAm}) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your Hewlett Packard Enterprise representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below. | | | |
| Configuration | Minimum (Entry) | | Maximum (Performance) |
| Idle | | | |
| LWAd | 4.8 B | | 4.6 B |
| LpAm | 37 dBA | | 31 dBA |
| Operating | | | |
| LWAd | 4.8 B | | 4.6 B |
| LpAm | 37 dBA | | 31 dBA |
| Notes: Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only. | | | |



Technical Specifications

| HPE StoreEasy 1660 Expanded Storage | | |
|---|--|--|
| Dimensions | 8.75 x 44.80 x 82.55 cm 3.44 x 17.63 x 32.50 in | |
| Weight (approximate) | Maximum | 40.6 kg 89.51 lb |
| Input Requirements (per power supply) | Rated Line Voltage | 200 to 240 VAC |
| | Rated Input Frequency | 50 to 60 Hz |
| | Rated Input Power | < 1734 W (at 200 VAC); < 1725 W (at 240 VAC) |
| BTU Rating | Maximum | 5918 BTU/hr (at 200 VAC); 5884 BTU/hr (at 240 VAC) |
| Power Supply Output (per power supply) | Rated Steady-State Power | 1600W (at 200 VAC); 1600W (at 240 VAC) |
| Acoustic Noise | | |
| Listed are the declared A-Weighted sound power levels (L_{WAd}) and declared average bystander position A-Weighted sound pressure levels (L_{pAm}) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your Hewlett Packard Enterprise representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below. | | |
| Configuration | Minimum (Entry) | Maximum (Performance) |
| Idle | | |
| LWAd | 5.1 B | 5.2 B |
| LpAm | 35 dBA | 36 dBA |
| Operating | | |
| LWAd | 5.3 B | 5.26 B |
| LpAm | 36 dBA | 45 dBA |
| Notes: Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only. | | |

HPE Smart Array

For latest information on **HPE Smart Array Gen10 Controllers for HPE ProLiant DL, ML and Apollo Servers** please refer to their QuickSpecs. (E208i-a,E208i-p,E208e-p,P408i-a,P408i-p,P408e-p,P816i-a)

Environment-friendly Products and Approach - End-of-life Management and Recycling

Hewlett Packard Enterprise offers **end-of-life product return, trade-in, and recycling programs**, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

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



Summary of Changes

| Date | Version History | Action | Description of Change |
|-------------|-----------------|---------|---|
| 06-Jul-2021 | Version 25 | Changed | Standard Features and Configuration Information sections were updated. |
| 07-Jun-2021 | Version 24 | Changed | Overview and Configuration Information sections were updated. |
| 04-May-2021 | Version 23 | Changed | Standard Features section was updated. |
| 06-Apr-2021 | Version 22 | Changed | Standard Features, Configuration Information and Technical Specifications sections were updated. |
| 01-Mar-2021 | Version 21 | Changed | Overview, Service and Support, Configuration Information and Technical Specifications sections were updated. |
| 01-Feb-2021 | Version 20 | Changed | Configuration Information section was updated |
| 07-Dec-2020 | Version 19 | Changed | Overview, Service and Support, Configuration Information and Technical Specifications sections were updated. |
| 05-Oct-2020 | Version 18 | Changed | Overview, and Configuration Information sections were updated. |
| 03-Aug-2020 | Version 17 | Changed | Overview, Standard Features, Features and Benefits, Configuration Information and Service and Support sections were updated. |
| 06-Jul-2020 | Version 16 | Changed | Overview, Configuration Information and Technical Specifications sections were updated |
| 01-Jun-2020 | Version 15 | Changed | Overview, Configuration Information and Technical Specifications sections were updated |
| 06-Apr-2020 | Version 14 | Changed | Configuration Information Section was updated |
| 02-Mar-2020 | Version 13 | Changed | Overview, Configuration Information and Technical Specifications sections were updated. |
| 02-Dec-2019 | Version 12 | Changed | Configuration Information section was updated. |
| 07-Oct-2019 | Version 11 | Changed | Overview and Configuration Information sections were updated |
| 03-Sep-2019 | Version 10 | Added | Added HPE StoreEasy 1660 Expanded Storage including configuration information. |
| 10-Jun-2019 | Version 9 | Changed | Overview, Features and Benefits and Configuration Information sections were updated. |
| 06-May-2019 | Version 8 | Changed | Configuration Information section was updated |
| 04-Mar-2019 | Version 7 | Changed | Configuration Information Section was updated. |
| 04-Feb-2019 | Version 6 | Changed | Overview, Standard Features, Features and Benefits, Configuration Information and Service and Support sections were updated. |
| 03-Dec-2018 | Version 5 | Changed | Standard Features, Configuration Information and Service and Support sections were revised. |
| 04-Jun-2018 | Version 4 | Changed | Overview, Standard Features, HPE StoreEasy 1660 configuration information, HPE StoreEasy 1860 configuration information, and Technical Specifications were updated. |
| 16-Apr-2018 | Version 3 | Changed | Optimized: Tailored for file storage and Optional Software were revised. |
| 02-Apr-2018 | Version 2 | Changed | Overview and multiple SKU description were updated. |
| 05-Mar-2018 | Version 1 | New | New QuickSpecs. |



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

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