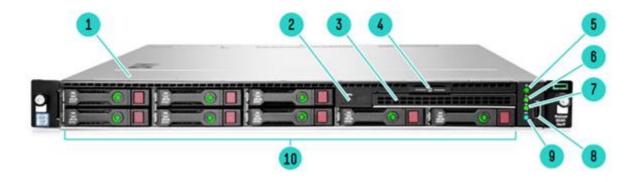
Overview

HPE ProLiant DL160 Generation9 (Gen9)

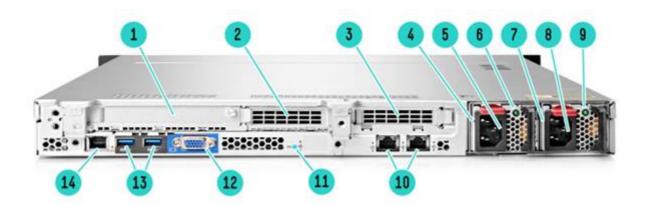
The HPE ProLiant DL160 Gen9 is the next generation 2P 1U value server replacing DL360e Gen8. It delivers the right balance of performance, storage, reliability, manageability and efficiency in a dense and compact chassis, to meet the needs of a diverse set of customers- from SMBs and service providers with a wide range of workloads - from general purpose IT to the New Style of IT, such as, Big Data and Cloud.



Front View

- 1. Access Panel
- 3. Optical disk drive bay
- 5. Power On/Standby button and system power LED
- 7. NIC status LED
- 9. UID button/LED

- 2. Optional USB3.0 (optional with 8SFF only)
- 4. Serial label pull tab
- 6. Health LED
- 8. USB 2.0 connector
- 10.8SFF drive cage

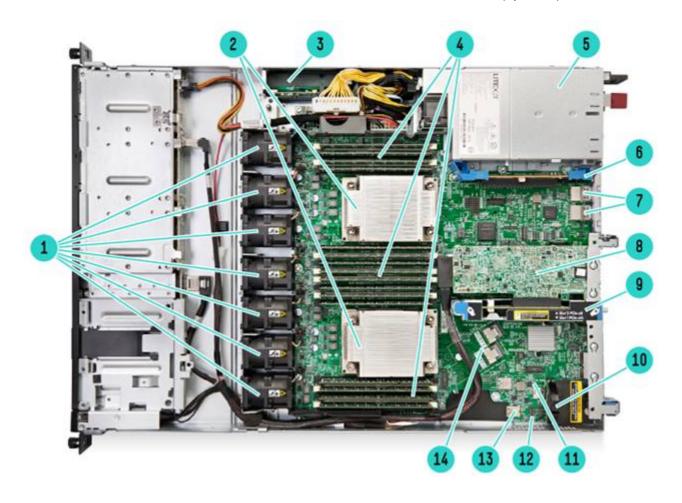


Overview

Rear View

- 1. PCle3 slot 1 (primary, associated with processor 1)
- 3. PCle3 slot 3 (secondary, associated with processor 2)
- 5. Power supply 1 Power Connector (Optional)
- 7. Power supply 2 bay
- 9. Power Supply 2 LED
- 11. Unit ID LED
- 13. USB3.0 connectors

- 2. PCle3 slot 2 (primary, associated with processor 1)
- 4. Power supply 1 bay
- 6. Power supply 1 LED (Optional)
- 8. Power supply 2 power connector
- 10. Embedded 2x1GbE network adapter
- 12. Video Connector
- 14. Dedicated iLO connector (optional)



Overview

Internal View

- 1. Hot Swappable fans (up to 7)
- 3. HPE Smart Storage Battery (optional)
- 5. Entry level power supply bay (1x900W shown)

NOTE: RPS (with one module) shown in the picture above.

- 7. Embedded 2x1GbE network adapter
- 9. Primary PCle riser (2 PCle3 slots associated with CPU1)
- 11. MicroSD card slot
- 13. Internal USB 3.0 connector

- 2. Processor heat sinks (processors with HPE Smart Sockets placed below heat sinks)
- 4. DDR4 DIMM slots (up to 16). Shown fully populated in 16 Slots (8 per Processor)
- 6. Connector for secondary PCIe riser (associated with CPU2)
- 8. HPE Smart Array P440 controller (optional)
- 10. Dedicated iLO module connector (optional)
- 12. Internal SATA ports (one for ODD and another one reserved)
- 14. Embedded B140i SATA controller (2x SATA ports for up to eight drives)

What's New

Support for ClearOS - an easy to use OS with an application marketplace

Standard Features

NOTE: For more information regarding Intel Xeon processors, please see the following http://www.intel.com/xeon.

Processor Up to two of the following depending on model

Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
E5-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
E5-2630v3	2.4GHz	8	20MB	85W	8.0GT/s	1866
E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
E5-2695v4	2.1GHz	18	45MB	120W	9.6GT/s	2400
E5-2683v4	2.1GHz	16	40MB	120W	9.6GT/s	2400
E5-2680v4	2.4GHz	14	35MB	120W	9.6GT/s	2400
E5-2660v4	2.0GHz	14	35MB	105W	9.6GT/s	2400
E5-2650v4	2.2GHz	12	30MB	105W	9.6GT/s	2400
E5-2650Lv4	1.7GHz	14	35MB	65W	9.6GT/s	2400
E5-2640v4	2.4GHz	10	25MB	90W	8.0GT/s	2133
E5-2630v4	2.2GHz	10	25MB	85W	8.0GT/s	2133
E5-2630Lv4	1.8GHz	10	25MB	55W	8.0GT/s	2133
E5-2623v4	2.6GHz	4	10MB	85W	8.0GT/s	2133
E5-2620v4	2.1GHz	8	20MB	85W	8.0GT/s	2133
E5-2609v4	1.7GHz	8	20MB	85W	6.4GT/s	1866
E5-2603v4	1.7GHz	6	15MB	85W	6.4GT/s	1866

Chipset One of the

following depending on model

Intel® C610 Series Chipset

Intel® E5-2600v3 Processor Family Intel® E5-2600v4 Processor Family

NOTE: For more information regarding Intel® chipsets, please see the following URL:

http://www.intel.com/products/server/chipsets/

On System Management Chipset

HPE iLO (Firmware HPE iLO4 2.0 or later) 2GB NAND NOTE: Read and learn more in the iLO QuickSpecs.

Memory

One of the following depending on model

Type:

HPE SmartMemory

DIMM Slots Available

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

16

(8 DIMM slots per processor, 4 channels per processor, 2

DIMMs per channel)

1TB Maximum Capacity

(LRDIMM)

(16 x 64GB LRDIMM @2400MHz)

 Standard Feature	S	:				
	Maximum Capacity (RDIMM)	512GB	(16 x 3	32GB RDIMM @24	400MHz)	
Memory Advanced ECC Advanced ECC uses single device data correction to detect single and all multibit error that occurs within a single DRAM						
One of the following	Thing oparo money of mode dottotte di raint and le degradan					ling and switches
depending on model	Mirroring mode	Memory mirroring inter-socket stores a copy of memory with dynamic failover in case of failure. Once a DIMM in a mirrored set is detected as failed, the mirror failover uses its mirrored DIMM.				
Network Controller	HPE Ethernet 1Gb	2-Port 361i Adap	oter			
Expansion Slots						
CPU1 PCle riser slots	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
	1	PCIe 3.0	x16	x16	Full-height, half-length slot	Processor 1
	2	PCIe 3.0	x8	x8	Low profile slot	Processor 1
	NOTE: Bus Width	data indicates th	e number of p	hysical electrical	lanes running	to the connector.
CPU 1 FlexibleLOM riser slots	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
	1	Flexible LOM	x8	x8	Flexible LOM	Processor 1 (can only be used for FlexibleLOMs)
	2	PCIe 3.0	x8	x8	Low profile slot	Processor 1
	NOTE: This riser is	mandatory for i	nstalling Flexi	bleLOMs.		
CPU2 riser PCIe slots	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
	3	PCle 3.0	x16	x16	Low profile slot	Processor 2
	NOTE: When popul NOTE: Only one or NOTE: One of the	f the CPU1 PCIe	risers can be	selected in any g	iven configura	
Storage Controller	Entry Models	HPE Dynamic Smart Array B140i Controller HPE H240 FIO Smart Host Bus Adapter				
One of the Base Models HPE H240 FIO Smart Host Bus Adapter						

NOTE: B140i provides support for up to 8 SATA drives, data transmission speeds up to 6Gb/s and

HPE Smart Array P440/4G Controller

Performance Models

following

model

depending on

Standard Features

supports RAID 0, 1 & 5.

NOTE: H240 provides support for up to 8 SAS/SATA drives, data transmission speeds up to

12Gb/s and supports RAID 0, 1 & 5.

NOTE: P440 provides support for up to 8 SAS/SATA drives, data transmission speeds up to

12Gb/s.

Internal Storage

Devices

One of the following depending on model

Optical Drive Hard Drives

Hard Drive Bays

Optional: DVD-ROM, DVD-RW

None ship standard

4 LFF drive bays total with Optical bay 8 SFF drive bays total with Optical Bay

NOTE: HPE ProLiant DL160 Gen9 server offers both SFF and LF The Optical Drive bay is available with both models.

NOTE: Drive cage changes are not supported.

NOTE: All Pre-configured Models come populated with some hard installed. Should the customer need additional hard drive blanks, t more using either P/N 666987-B21: HPE SFF Gen9 Hard Drive Bl. 666986-B21: HPE LFF Gen9 Hard Drive Blank Kit. These part nur HDD blanks below are also provided should the customer require blanks for their server.

	Maximum Internal Storage One of the following depending on model	Hot Plug SFF SAS Hot Plug SFF SATA Hot Plug LFF SAS Hot Plug LFF SATA Hot Plug SFF SAS SSD Hot Plug SFF SATA SSD Hot Plug LFF SATA SSD	CAPACITY 16.0TB 16.0TB 40.0TB 40.0TB 30.72TB 30.72TB	CONFIGURATION 8 x 2TB 8 x 2TB 4 x 10TB 4 x 10TB 8 x 3.84TB 8 x 3.84TB 4 x 3.84TB	
Non Hot Plug LFF 16TB 4 x 4TB SATA		SSD Non Hot Plug LFF	16TB	4 x 4TB	

Power Supply

One of the following depending on model

HPE 550W FIO Power Supply

HPE 900W Redundant Power Supply

Looking for high-efficiency power solutions at an entry-level price for your ProLiant Gen9 Essential S Entry-Level Power Supplies offer an optimized set of features with options for both redundant and no power configurations.

The HPE 550W FIO Power Supply offers Silver-certified 80 Plus power efficiency (up to 89%) with a features for non-redundant power configurations.

The HPE 900W AC 240VDC Power Input Module with Power Backplane can be configured to supporedundancy in ProLiant servers that offer only a single power supply bay, providing additional protect loss. With an 80 Plus Gold power efficiency rating (up to 92%), this power option helps to reduce open

Standard Features

while protecting against trapped power capacity in the data center. Hot-plug AC power input module serviceability with fast and easy deployment and replacement.

System Fans One of the following depending on model

Non-redundant 1P model

3 fans

Non-redundant

Redund

Redund

4 fans

2P model 6 fans

7 fans

NOTE: Redundant fan option kit (PN: 725587-B21) can be bought separately if redundancy is requir configurations.

NOTE: Additional fans required with 2P configurations are included in "-B21" processor option kits.

Interfaces

Video 1 (Vaux Support)

LOM Network Ports 2x1GbE network ports HPE iLO Remote 1 GbE (Optional)

Management Network Port

USB 4 USB ports (standard); 1 (optional)

Front: 1xUSB 2.0 std; 1xUSB3.0 optional (with 8SFF

models only) Rear: 2xUSB 3.0 Internal: 1xUSB 3.0

Micro SD Slot 1 Micro SD

NOTE: The SD slot is not a hot-pluggable device. Customers should not attempt to plug

an SD card into the SD slot while the server is powered.

Operating Systems and Virtualization **Software Support** for ProLiant Servers

Microsoft Windows Server

Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES)

VMware ClearOS

NOTE: ClearOS allows you to build a fully functional server that is just right for you at no upfront cost. It is available via CTO preload, Intelligent Provisioning or via download. For more information on ClearOS, please visit http://www.hpe.com/servers/clearos.

NOTE: For more information on the Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix

at: http://www.hpe.com/info/ossupport and our driver download page.

Upgradeability

One of the following depending on model

Upgradeable to 2 processors (36 Cores)

NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported for processors

up to 105W.

Up to 16 DIMM slots available

NOTE: To take advantage of DIMMs 9-16, second processor must be installed. FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options

Standard Features

Optional 2nd CPU riser slot (x16, low profile)

NOTE: 2nd CPU must be installed if this riser is configured.

Up to 8 SFF Hard Drive Bays; or 4 LFF Hard Drive Bays

Redundant Power Supply

Redundant Fan

Optical Drive Bay (8 SFF/4 LFF)

Industry Standard Compliance

ACPI 2.0b Compliant PCIe 3.0 Compliant

PXE Support WOL Support

Microsoft® Logo certifications

USB 3.0 Support ASHRAE A3

NOTE: Supports A3 extended ambient temperature.

NOTE: Refer to technical specifications section for more details.

Graphics

Integrated Matrox G200eH2 video standard

- 1280 x 1024 (32 bpp)
- 1920 x 1200 (16 bpp)

HPE Server UEFI/Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot Mode.

NOTE: The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit

http://www.hpe.com/servers/uefi.

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

- Secure Boot
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using RESTful API for iLO 4
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM
- Network Stack configurations

NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.

NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen9 Server.

Standard Features

Form Factor

One of the following depending on model

1U Rack form factor

8SFF and 4LFF version:

1.7" (4.3cm) Height x 17.1" (43.5cm) Width x 23.9" (60.8cm) Length

Embedded Management **HPE** Integrated Lights-Out (HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting

and remote management with HPE iLO. Learn more at

http://www.hpe.com/info/ilo.

UEFI

Configure and boot your servers securely with industry standard Unified

Extensible Firmware Interface (UEFI). Learn more at

http://www.hpe.com/servers/uefi.

RESTful API

RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server

management such as configuration and maintenance tasks based on

modern industry standards. Learn more at http://www.hpe.com/info/restfulapi.

Intelligent **Provisioning** Hassle free server and OS provisioning for 1 or few servers with

Intelligent Provisioning. Learn more at

http://www.hpe.com/servers/intelligentprovisioning.

Embedded Remote Support

The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner

for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore.

Server utilities

Smart Update Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant

(SPP). Learn more at

http://www.hpe.com/servers/smartupdatemanager.

Insight Manager (HPE SIM)

HPE Systems HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for

non-HPE servers.

HPE SIM also integrates with Smart Update Manager to provide quick

and seamless firmware updates. Learn more at

http://www.hpe.com/servers/hpsim.

Standard Features

Scripting
Tool Kit and
Windows
PowerShell

Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at

http://www.hpe.com/servers/proliant/stk or

http://www.hpe.com/servers/powershell.

RESTful Interface Tool RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at

http://www.hpe.com/info/resttool.

HPE iLO Mobile Application Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For

additional information please visit:

http://www.hpe.com/info/ilo/mobileapp.

HPE Insight Online

HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere,

anytime. Learn more at

http://www.hpe.com/info/insightonline/explore.

Security

Power-on password
Serial interface control
Administrator's password

TPM 2.0 TPM 2.0

NOTE: TPM 1.2 is not upgradable to TPM 2.0.

UEFI

Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

NOTE: Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at:

http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/.

Optional Features

Embedded Management

iLO Essentials

HPE iLO Essentials is the preferred license for small and medium business that offers full remote server management capabilities for small and medium business via the Integrated Remote Console (IRC), virtual media, and e-mail based alerts. Learn more about HPE iLO Essentials at http://www.hpe.com/servers/iLO/essentials.

iLO Scale-Out

HPE iLO Scale-Out is the preferred license built for web hosting, cloud service providers, and high performance computing data centers, managing massive scale out environments for the DL 100 and 10 series servers, not available for ML servers. This license offers sophisticated scripting tools that provides remote access through Text Console via SSH, Dynamic power capping, Email-based Alerting and proactive

notifications. For more information, visit http://www.hpe.com/servers/iLO/scale-out.

iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at

http://www.hpe.com/servers/iloadvanced.

Server Management

HPE Insight Control

HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see

http://www.hpe.com/info/insightcontrol.

Rack and Power Infrastructure

HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HPE Rack and Power infrastructure solutions - rack infrastructure, power protection and management, performance optimized data centers (PODs) - are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at HPE Rack and Power Infrastructure.

High Performance Clusters

HPE Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies ordering. https://www.hpe.com/us/en/solutions/hpc-high-performance-computing/hpc-software.html.

Optional Features

HPC Interconnects

NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HPE Cluster Platform product portfolio. These high-speed interconnects are fully supported by Hewlett Packard Enterprise when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPEC Clusters with InfiniBand Interconnects: https://www.hpe.com/info/hpc/solutions.

Storage Software

Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than Hewlett Packard Enterprise storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities.

Storage software that gets the job done:

Data Protection and Recovery Software

Whether you're a large enterprise or a smaller business, Hewlett Packard Enterprise data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.

• Data Archive and Migration Software

Hewlett Packard Enterprise storage software enables you to comply with data retention and retrieval requirements, improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.

Storage Resource Management Software (SRM)

Hewlett Packard Enterprise storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments.

Data Replication Software

Hewlett Packard Enterprise offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting.

Storage Device Management Software

Maximize your investment in Hewlett Packard Enterprise storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.

HPE StoreVirtual VSA

With HPE StoreVirtual VSA you can use the power of virtualization to create a virtual array within your host server. Manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. HPE ProLiant Gen9 servers include a 3-year limited license for HPE StoreVirtual VSA software with 1TB of capacity at no extra cost. Simply select to install HPE StoreVirtual VSA software during server setup within Intelligent Provisioning. More information, instructional videos, and free console management software are available at http://www.hpe.com/info/vsa1TB.

NOTE: For more information about Storage Software including QuickSpecs, please see:

https://www.hpe.com/us/en/storage/software-defined.html.

ClearOS

HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive web based graphical user interface that provides a cloud-like experience on- premise, and an

Optional Features

Application Marketplace with over 100 apps and growing. Whether you're starting out or scaling, you decide what applications you need and pay as you grow.

One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. http://ocs.ext.hpe.com/.

Service and Support

HPE Support Services

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support for need for your IT and business.

Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, 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 Hewlett Packard Enterprise support. 1- IDC 2 - HP CSC reports 2014 - 2015

Recommended Support

Basic: HPE Foundation Care NBD, three-year Support Service

HPE Foundation Care Next Business Day connects you to Hewlett Packard Enterprise during business hours for assistance on resolving issues - This service features need based next business day hardware onsite response and software call back within two hours. In addition, Collaborative software support and provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise 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

Standard: HPE Foundation Care 24x7, three-year Support Service

HPE Foundation Care 24x7 gives you access to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues. This service includes need based Hardware onsite response within four hours. In addition, collaborative software support is included in this service that provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise 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

Optimized: HPE Proactive Care* with 24x7 coverage, three year Support Service HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

Parts and

Hewlett Packard Enterprise will provide Hewlett Packard Enterprise-supported

Service and Support

Materials

replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended 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.

Related Services HPE Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf

HPE Installation and Startup Service

Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems, C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux).

HPE Technology Services Support Credits

Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.

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

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise 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 Hewlett Packard Enterprise 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 Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.

Service and Support

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

For more information: $\underline{\text{http://www.hpe.com/services}}$

Pre-configured Models

	Entry I	Models	Base Models		
[SKU Number]	830570-B21	830571-B21	830572-B21		
Model Name	HPE DL160 Gen9 E5- 2603v4 1P 8GB-R B140i 4LFF 550W PS Entry Server	HPE DL160 Gen9 E5-2603v4 1P 8GB- R H240 8SFF 550W PS Entry Server	HPE DL160 Gen9 E5-2620v4 1P 16GB-R H240 8SFF 550W PS Base Server		
Processor	Intel® Xeon®	E5-2603v4	Intel® Xeon® E5-2620v4		
Number of Processors		(One		
Memory	NOTE: Due to proce DDR4 DIMMs will ope	GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 1866 MHz in this model. 16GB (1x16GB Registered DIMMs, 2 MHz) NOTE: Due to processor limitation, to DDR4 DIMMs will operate at 2133 MHz model.			
Network Controller	HPE Embedded Dual Port 361i Adapter Network Interface				
Storage Controller	HPE Dynamic Smart Array B140i	HPE H240 FIO Smart Host Bus Adapter	HPE H240 FIO Smart Host Bus Adapter		
Hard Drive		None ship standard			
Internal Storage	4 LFF HDD Bays	8 SFF HDD Bays	8 SFF HDD Bays		
Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)				
Optical Drive	Optional Slim Optical Bay (SATA DVD-RW/ROM Optical Drive)				
PCI-Express Slots	2 Standard (1-FH/HL, 1-LP) PCIe 3.0				
Power Supply	(1) HPE 550W FIO Power Supply				
Fans	3 hot swap fans, non-redundant 4 hot swap fans, redundant				
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional)				
Form Factor		Rack (1U), HPE	Easy Install Rails		
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.				

Country Code	xx1 = B21	Worldwide
Key	xx1 = 291	Japan
	xx1 = AA1	PRC

Configuration Information - Factory Integrated Models

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

- 1. Factory Integrated Models must start with a CTO Server.
- 2. FIO indicates that this option is only available as a factory installable option.
- 3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the server.
- 4. Some options may not be integrated at the factory. Contact your local sales representative for additional information.

Step 1: Base Configuration (choose one of the following configurable models)

HP ProLiant DL160 Gen9 Hot Plug 8SFF Configure- to-order Server	HP ProLiant DL160 Gen9 Hot Plug 4LFF Configure-to- order Server HP ProLiant DL160 C Non-hot Plug 4LF Configure-to-order Server			
10 0.40. 00.10.		3		
754520-B21	754521-B21	754522-B21		
2 (optional) x HPE Smart Socket G	uide		
16 DIMM slots for RDIMM, LRDIMM DDR4 Memory				
HPE Dynamic Smart Array B140i				
Optional (None ship standard)				
8SFF Hot Plug	4LFF Hot Plug 4LFF Non Hot Plug			
HPE Embedded Dual Port 361i Adapter Network Interface				
·				
3 hot swap fans, non-redundant				
iLO Management (standard), Intelligent Provisioning (standard)				
1 front, 1 internal, 2 rear				
HPE Thumbscrew Ears				
	Hot Plug 8SFF Configure- to-order Server 754520-B21 2 (16 DIMM 8SFF Hot Plug HPE Embed	Hot Plug 8SFF Configure- to-order Server 754520-B21 2 (optional) x HPE Smart Socket G 16 DIMM slots for RDIMM, LRDIMM DDR- HPE Dynamic Smart Array B14 Optional (None ship standard) 8SFF Hot Plug HPE Embedded Dual Port 361i Adapter Netv 3 hot swap fans, non-redundan iLO Management (standard), Intelligent Provision 1 front, 1 internal, 2 rear		

Step 2: Choose Required Options (only one of the following from each list unless otherwise noted)

HPE Processors Select one or two processors from Core Options-Processor section below.

- If one processor is desired, select one xxxxxx-L21
- If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.
- Up to 2 processors supported. Mixing different processor models is not supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) = version number.

HPE Memory

Select one or more memory from Core Options-Memory section below.

 UDIMM, RDIMM, and LRDIMM are all distinct memory technologies and cannot be mixed within a server.

Configuration Information - Factory Integrated Models

- HPE memory options from previous generation servers are not qualified or warranted with Hewlett Packard Enterprise Gen9 systems. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9.
- If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available.
- Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: http://www.hpe.com/go/ddr4config.

HPE Power Supplies

Select one or more power supplies from Core Options-Power Supplies section below.

- Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: http://www.hpe.com/info/hppoweradvisor.
- By RPS Enablement Kit power options, mixing of power supplies in the same RPS enablement kit is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

Step 3: Choose Additional Factory Integratable Options

HPE Unique Options

Select one or more Unique options from Core Options section below.

- This section may contain FIO options, please see the Unique options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE I/O Expansion Options

Select one or more drives from Core Options-HPE Drives section below.

- To take advantage of the additional PCI slot upgrade, the second processor must be installed.
- This section may contain FIO options, please see HPE I/O Expansion Options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Drives

Select one or more drives from Core Options-HPE Drives section below.

- The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.
- Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.
- The HPE ProLiant Gen9 Smart Storage solutions are equipped with re-designed Small Form Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HPE Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove."

HPE FlexibleLOM

Select a FlexibleLOM from Core Options-Networking section below.

Configuration Information - Factory Integrated Models

- Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.
- For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
- Please see the QuickSpecs for Technical Specifications and additional information: http://www.hpe.com/go/ProLiantNICs.

HPE Networking Select a standup NIC adapter from Core Options-Networking section below.

- Please see the QuickSpecs for Technical Specifications and additional information: http://www.hpe.com/go/ProLiantNICs.
- These options are upgradeable and can be changed from the original configuration after the server is shipped.
- For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

HPE Storage Controllers

Select one or more Storage options from Additional Options section below.

- The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.
- This section may contain FIO options, please see HPE Storage Controllers section below.
- FIO indicates that this option is only available as a factory installable option.

HPE I/O **Expansion Options**

Select one or more Riser Kit options from Core Options section below.

- To take advantage of the additional PCI slot upgrade, the second processor must be installed.
- This section may contain FIO options, please see HPE I/O Expansion Options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Cooling Options

Select one or more Fan Kits from Core Options section below.

- This section may contain FIO options, please see HPE Cooling Options section
- FIO indicates that this option is only available as a factory installable option.

HPE Rail Kits

Select one type of rail kit from Additional Options section below.

- Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server.
- To assist in the installation of the server into the rack, an optional installation tool is available by contacting your local services representative (p/n 695539-001).
- See Hewlett Packard Enterprise Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.

CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

Core Options

NOTE: Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for additional information.

HPE Unique	HP DL180 Gen9 Dedicated iLO Management Port Kit	725581-B21
Options	HP DL160 Gen9 CPU1 Riser FIO Kit	725585-B21
	NOTE: This riser enables two PCle3 slots. Either of this riser kit and	
	FlexibleLOM riser kit (781844-B21) is mandatory for all configurations.	
	HPE DL160 Gen9 Low Profile PCIe CPU2 Riser Kit	725586-B21
	NOTE: CPU 2 is required if this riser is to be installed, enables one PCle3	
	slot.	
	HP DL160 Gen9 Quick Release Ear FIO Kit	774609-B21
	NOTE: This option kit is required for Security Bezel.	
	HP DL160 Gen9 Front USB 3.0 Enablement Kit	725594-B21
	NOTE: This kit is required to enable a front USB3.0 port on SFF models	
	only.	
	HP DL160 Gen9 FlexibleLOM Enablement Kit	781844-B21
	NOTE: This riser kit is required when FlexibleLOM is selected.	
	HPE Legacy FIO Mode Setting	758959-B22
	NOTE: UEFI is the default, this FIO part can be used for CTO to enable	
	Legacy mode.	
	HP AHCI-Enable FIO Setting	801845-B21
	NOTE: This needs to be selected when Advanced Host Controller Interface mode is required on B140i controller.	

HPE Processors E5-2600v4 series Processors

HPE DL160 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	801288-B21
HPE DL160 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	801288-L21
HPE DL160 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit	801289-B21
HPE DL160 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit	801289-L21
HPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit	801290-B21
HPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit	801290-L21
HPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit	801291-B21
HPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit	801291-L21
HPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit	801287-B21
HPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit	801287-L21

HPE DL160 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit	801301-B21
HPE DL160 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit	801301-L21
HPE DL160 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit	801283-B21
HPE DL160 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit	801283-L21
HPE DL160 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit	801284-B21
HPE DL160 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	801284-L21
HPE DL160 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit	801285-B21
HPE DL160 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	801285-L21
HPE DL160 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit	825494-B21
HPE DL160 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit	825494-L21
HPE DL160 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Processor Kit	825498-B21
HPE DL160 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor Kit	825498-L21
HPE DL160 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit	825500-B21
HPE DL160 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit	825500-L21
HPE DL160 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	801286-B21
HPE DL160 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	801286-L21
E5-2600v3 series Processors	
HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	733943-B21
HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	763235-B21
HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	733935-B21
HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	733937-B21
HP DL160 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	733939-B21
HP DL160 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	763241-B21

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Core Options		
	HP DL160 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	779836-B21
	HP DL160 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	733931-B21
	HP DL160 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	733933-B21
	HP DL160 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	763237-B21
	NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported for processors up to 105W. Please refer to DL160 Gen9 User Guide for more details.	
HPE Memory	Registered DIMMs (RDIMMs) for E5-2600v4 Series	
	HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
	HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
	HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.	
	Registered DIMMs (RDIMMs) for E5-2600v3 Series	
	HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
	HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.	
	Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series	
	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
	HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.	
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	

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	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21
	HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21
	HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726724-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v3	
	processors.	
	HPE Standard Memory for E5-2600v4 Series	
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard Memory Kit	851353-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.	
	HPE Standard Memory for E5-2600v3 Series	
	HPE 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803026-B21
	HPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803028-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.	
HPE Optical	HPE 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
Drives .	HPE 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
	·	
HPE Drives	<u> </u>	
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally	872479-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	872479-B21 781518-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally	872479-B21 781518-B21 785069-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally	872479-B21 781518-B21 785069-B21 872477-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21 781518-B21 785069-B21 872477-B21 781516-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally	872479-B21 781518-B21 785069-B21 872477-B21 781516-B21 872475-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally	872479-B21 781518-B21 785069-B21 872477-B21 781516-B21 872475-B21 785067-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally	872479-B21 781518-B21 785069-B21 872477-B21 781516-B21 872475-B21 785067-B21 870759-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21 781518-B21 785069-B21 872477-B21 781516-B21 872475-B21 785067-B21 870759-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21 781518-B21 785069-B21 872477-B21 781516-B21 872475-B21 785067-B21 870759-B21 870757-B21 759212-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD HPE 450GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD HPE 450GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD	872479-B21 781518-B21 785069-B21 872477-B21 781516-B21 872475-B21 785067-B21 870759-B21 870757-B21 759212-B21 759210-B21

SAS Hot Plug SFF (2.5-inch) Enterprise 512e Drives	
HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally	881457-B21
Signed Firmware HDD	
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally	872481-B21
Signed Firmware HDD	
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e HDD	791034-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870763-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e HDD	748387-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed	832514-B21
Firmware HDD	002011221
SAS Hot Plug SFF (2.5-inch) Midline 512e Drives	
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally	765464-B21
Signed Firmware HDD	
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HPE 600GB SAS 12G Enterprise 15K LFF (3.5in) SC 3yr Wty HDD	765424-B21
HPE 450GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty HDD	737394-B21
HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty HDD	737261-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846514-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872487-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	818367-B21
HPE 3TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846528-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872485-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	818365-B21
HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846524-B21
SAS Hot Plug LFF (3.5-inch) Midline 512e Drives	
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819201-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861754-B21
SAS Hot Plug LFF (3.5-inch) 512e Performance Drives	
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861756-B21
SAS Hot Plug LFF (3.5-inch) Midline 512e Helium Drives	
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857644-B21

HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	861590-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	655710-B21
SATA Hot Plug SFF (2.5-inch) Midline 512e Drives	
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765455-B21
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765453-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846510-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872491-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861678-B21
HPE 3TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	861693-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872489-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861676-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861691-B21
SATA Hot Plug LFF (3.5-inch) Midline 512e Drives	
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819203-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861750-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861752-B21
SATA Hot Plug LFF (3.5-inch) Midline 512e Helium Drives	
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857648-B21
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	861594-B21
SATA Non-hot Plug LFF 7.2K (3.5-inch) Standard Drives	
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801888-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801884-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801882-B21
SSD Selection	
To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located here: http://www.hpe.com/products/recommend .	
420 CAC Hat Diver CET (2 E inch) Bood Intensive Colid State Drives	
12G SAS Hot Plug SFF (2.5-inch) Read Intensive Solid State Drives	
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870144-B21

HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875330-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872392-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875326-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872390-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875313-B21
HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875311-B21
12G SAS Hot Plug SFF (2.5-inch) Write Intensive Solid State Drives	
HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873357-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873355-B21
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873351-B21
12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873367-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872386-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873365-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872382-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873363-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872376-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873359-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872374-B21
12G SAS Mixed Use Hot Plug LFF (3.5-inch) Solid State Drives	
HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	872378-B21
6G SATA Hot Plug SFF (2.5-inch) Write Intensive Solid State Drives	
HPE 1.6TB SATA 6G WI SFF SC DS SSD	872363-B21
HPE 800GB SATA 6G WI SFF SC DS SSD	872359-B21
HPE 400GB SATA 6G WI SFF SC DS SSD	872355-B21
6G SATA Hot Plug SFF (2.5-inch) Read Intensive Solid State Drives	

HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877764-B21
HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868830-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877758-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	871770-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868826-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875513-B21
HPE 1.6TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869386-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877752-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869384-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	871768-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868822-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875511-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877746-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869378-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868818-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875509-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877740-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869376-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868814-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875503-B21
HPE 150GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869374-B21
Read Intensive - 6G SATA - M.2 - Solid State Drives	
HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875500-B21
HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875319-B21

HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875498-B21
HPE 150GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875317-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877788-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872352-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875478-B21
HPE 1.6TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD	804631-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877782-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872348-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875474-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877776-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872344-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875470-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	880295-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875483-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives	
HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875492-B21
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875490-B21
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21
6G SATA Hot Plug LFF (3.5-inch) Write Intensive Solid State Drives	
HPE 1.6TB SATA 6G WI LFF SCC DS SSD	872365-B21
HPE 800GB SATA 6G WI LFF SCC DS SSD	872361-B21
HPE 400GB SATA 6G WI LFF SCC DS SSD	872357-B21
6G SATA Hot Plug LFF (3.5-inch) Read Intensive Solid State Drives	
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877760-B21
HPE 1.6TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	869388-B21
HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877754-B21

Core Options

core options		
	HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877748-B21
	HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	869380-B21
	6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives	
	HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877790-B21
	HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875480-B21
	HPE 1.6TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD	804634-B21
	HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877784-B21
	HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875476-B21
	HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	872350-B21
	HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875472-B21
	HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	872346-B21
	M.2 SSD	
	HPE 340GB SATA 6G Read Intensive 3yr Wty M.2 Kit	835563-B21
	HPE 340GB SATA 6G Read Intensive 3yr Wty Dual M.2 Kit	835565-B21
	HPE Universal SATA HHHL 3yr Wty M.2 Kit	878783-B21
	NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only.	
	Hard Drive Blank Kits	
	HPE Large Form Factor Hard Drive Blank Kit	666986-B21
	HPE Small Form Factor Hard Drive Blank Kit	666987-B21
HPE	1 Gigabit Ethernet adapters	
Networking	HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
	10 Gigabit Ethernet adapters	
	HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
	HPE Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HPE Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21

Core Options

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	slot. HP DL160 Gen9 FlexibleLOM Enablement Kit NOTE: This enablement kit is required when FlexibleLOM is selected.	781844-B21
	HPE DL160 Gen9 Low Profile PCIe CPU2 Riser Kit NOTE: CPU 2 is required if this riser is to be installed, enables one PCIe3	725586-B21
HPE I/O Expansion Options	HP DL160 Gen9 CPU1 Riser FIO Kit NOTE: This riser enables two PCle3 slots and either of FlexibleLOM riser kit (PN: 781844-B21) or CPU1 riser FIO kit is required in every configuration.	725585-B21
	Integrity Servers QuickSpecs for additional information.	
	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter NOTE: Please see the HPE InfiniBand Options for HP ProLiant and	764285-B21
HPE InfiniBand	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://www.hpe.com/servers/ProLiantNICs .	
	NOTE: FlexibleLOM riser kit (P/N: 765509-B21) is required when any FlexibleLOM is selected.	
	HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
	HPE Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
	HPE FlexFabric 10Gb 4-port 556FLR-T Adapter	794525-B21
	HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	700751-B21 764302-B21
	HPE FlexFebric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	FlexibleLOM Adapters	
	HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
	HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter	817762-B21
	25 Gigabit Ethernet adapters	
	separately. See cables/options below.	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased	
	per each adapter.	

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

Core Options

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: Supports Silver-level efficiency (89%) with a standard C14 inlet connector. No support for HPE Power Discovery Services. Only compatible

with select HPE ProLiant Gen9 Essential servers.

HPE 900W Standard AC 240VDC Power Input Module FIO Kit

828734-B21

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: RPS Backplane is mandatory to be chosen with this power input

module.

HPE 900W Standard AC 240VDC RPS Power Backplane FIO Kit

828735-B21

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: This RPS backplane is mandatory to be chosen along with 900W

RPS

input module.

HPE 900W Standard AC 240VDC Power Input Module

775595-B21

NOTE: This part number can only be bought standalone and is for field integration only.

NOTE: RPS Backplane is mandatorily needed with this power input module.

HPE 900W Standard AC 240VDC RPS Power Backplane

814835-B21

NOTE: This part number can only be bought standalone and is for field integration only.

NOTE: This RPS backplane is mandatorily needed with 900W RPS input module.

HPE 900W Standard AC 240VDC Redundant Power Supply Kit

820792-B21

NOTE: This Redundant Power supply kit includes 2 power supply input module and 1 backplane kit.

NOTE: This part number is both factory installed option and filed integrable option.

NOTE: This Power supply supports both 100-240V AC and 240V DC.

NOTE: Supports Gold-level efficiency (92%) with a standard C14 inlet connector. No support for HPE Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers.

NOTE: HPE 900W Gold (Redundant) AC 240VDC Power Input Module (775595-B21/828734-B21) must be used with Power Backplane (814835-B21/828735-B21).

NOTE: Each Redundant Power Supply Backplane can support up to two (2) power input modules.

NOTE: Redundant AC Power Input Modules do not share power. Redundant AC Power Input Module #1 is the primary AC Power Input Module. Redundant AC Power Input Module #2 is the backup AC Power Input Module.

NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

NOTE: Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at:

http://www.hpe.com/info/hppoweradvisor.

Core Options

HPE Cooling Options

HP DL160 Gen9 Redundant Fan Kit

725587-B21

NOTE: This kit includes one fan and is required for enabling fan redundancy with 1P and 2P configurations.

C6N36A

QuickSpecs

Additional Options

NOTE: Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for additional information.

HPE	Insight
Softv	vare

HPE Insight Control

HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-

server LTU

HPE Insight Control including 1yr 24x7 TSU E-LTU C6N28ABE

HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle

Single Server FIO LTU

HPE Insight Control Upgrade from iLO Advanced including 1yr 24x7 C6N38ABE

Support E-LTU

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24x7 HPE Software Technical Support and Update Service.

NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded at: https://www.hpe.com/info/insightmanagement.

NOTE: For additional license options please see the HPE Insight Control QuickSpecs.

Embedded Management

HPE iLO Advanced

HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-	512485-B21
server LTU	

HPE iLO Advanced including 3vr 24x7 Tech Support and Updates 1-server BD505A

LTU

HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E- E6U59ABE

LTU

HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E- E6U64ABE

LTU

HPE iLO Essentials

HPE iLO Essentials including 3yr 24x7	Tech Support and Updates 1-server	BD774A
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LTU

HPE iLO Essentials including 1yr 24x7 Tech Support and Updates 1-server BD775A

LTU

HPE iLO Essentials including 3yr 24x7 Technical Support and Updates E- E6U61ABE

LTU

HPE iLO Essentials including 1yr 24x7 Technical Support and Updates E- E6U62ABE

LTU

HPE iLO Scale-out

HPE iLO Scale-Out 3vr 24	4x7 Tech S	Support and Updates	Flexible Quantity	BD776A
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LTU

HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Flex Qty BD776AAE

E-LTU

HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Tracking BD777A

LTU

E5Y37A

QuickSpecs

Additional Options

HPE iLO Scale-Out 1yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD778A
HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD778AAE
HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Tracking LTU	BD779A

Infrastructure Management Software

HPE Converged HPE OneView Advanced (with HPE iLO Advanced)

HPE OneView including 3yr 24x7 Support Physical 1-server LTU E5Y34A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU E5Y35AAE
HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO E5Y43A
Bundle Physical 1-server LTU

HPE OneView Physical Media Kit LTU

HPE OneView Advanced (without HPE iLO Advanced)

HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU

HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU

HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU

HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU

P8B25A

P8B26AAE

HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU

P8B31A

NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.

NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).

NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at:

http://www.hpe.com/info/hpeoneview

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

High Performance Clusters

HPE Cluster Management Utility

HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU

QL803B

HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU

BD476A

HPE Insight Cluster Management Utility Media

BD477A

NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement.

NOTE: For additional license kits please see the HPE Insight Cluster

Management Utility QuickSpecs

HPE PCIeWorkload

HPE Read Intensive PCIe Workload Accelerator

HPE 6.4TB Read Intensive-2 FH/HL PCIe Workload Accelerator

831739-B21

Additional Optio	ns	
Accelerator	HPE 3.2TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831737-B21
Options	HPE 1.6TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831735-B21
	HPE 1.3TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831733-B21
	Light Endurance (LE) PCle Workload Accelerators	
	HPE 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21
	NOTE: Please see the HPE PCIe Workload Accelerators for ProLiant	
	Servers QuickSpecs for Technical Specifications and additional	
	information.	
HPE Security	HPE 1U Security Bezel Kit	664918-B21
	NOTE: Quick Release Ear option kit (P/N 774609-B21) is required for installing security bezel.	
	HP DL160 Gen9 Quick Release Ear FIO Kit	774609-B21
	NOTE: Quick Release Ear option kit is required for installing security bezel.	
	HPE Trusted Platform Module 2.0 Kit	745823-B21
	NOTE: HPE Trusted Platform Module 2.0 Option works with Gen9 servers	
	with UEFI Mode not Legacy Mode. It is not compatible with HP ProLiant	
	Gen8 servers or earlier generation variants.	
	NOTE: HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option.	
	NOTE: HPE server systems can have a TPM module (of any type) installed	
	only once. It cannot be replaced with any other TPM module.	
	HPE Trusted Platform Module Option	488069-B21
	NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM	
	1.2 version. Compatible server platforms include Gen8 and Gen9 servers.	
	NOTE: HPE server systems can have a TPM module (of any type) installed	
	only once. It cannot be replaced with any other TPM module.	
HPE Storage	SAS Controllers	
Controllers	HPE Smart Array Controllers	
	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
	HPE Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	820834-B21
	NOTE: Includes the HPE Smart Storage Battery.	
	HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21
	NOTE: Includes the HPE Smart Storage Battery.	
	HPE Smart Host Bus Adapters	
	HPE H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
	HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter	761873-B21
	HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
	HPE Cable Options	
	HP DL160 Gen9 4LFF Smart HBA H240 SAS Cable Kit	725590-B21
	HP DL160 Gen9 8SFF Smart HBA H240 SAS Cable Kit	774621-B21
	HP DL160 Gen9 4LFF Smart Array P440 SAS Cable Kit	725593-B21

Q2F26AAE

QuickSpecs

Additional Options

HP DL160 Gen9 8SFF Smart Array P440 SAS Cable Kit	774619-B21
HP DL160 Gen9 4LFF Smart Array B140i SATA Cable FIO Kit	768775-B21
HP DL160 Gen9 8SFF Smart Array B140i SATA Cable FIO Kit	774611-B21

NOTE: One of the above cables is required to be selected depending on the combination of chassis and storage controller. Cable option kit descriptions include the right chassis and storage controllers names. **NOTE:** FIO indicates that this option is only available as a factory installable option. Please select FIO option if you want the option to be factory installed.

NOTE: NHP server chassis (Mod-x) includes SATA cables required to connect drives to embedded B140i SATA controller.

Optional Software

HPE Smart Array SR SmartCache (Single Key/Single Server) LTU	D7S26A
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU	D7S27A
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU	D7S27AAE

NOTE: HPE SmartCache is supported when one of the supported Smart Array Controllers is installed in the server.

HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU

Optional Upgrades

HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers 727258-B21

NOTE: This option is mandatorily required with HPE Smart Array controllers. One server can accommodate only 1 Smart Storage Battery that would suffice the requirement of all HPE Smart Array controllers.

HPE Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hpe.com/storage/storeever. For hardware and software compatibility of HPE tape backup products http://www.hpe.com/storage/BURAcompatibility. NOTE: For Internal drives to be connected to DL servers please make sure that you order rack mount kit as well.

Tape Drives

SAS Rack-Mount Tape Solutions

HPE StoreEver LTO-7 Ultrium 15000 Internal Tape Drive	BB873A
HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver MSL LTO-7 Ultrium 15000 FC Drive Upgrade Kit	N7P36A
HPE StoreEver MSL LTO-7 Ultrium 15000 SAS Drive Upgrade Kit	N7P37A
HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit	C0L99A
HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HPE StoreEver MSL LTO-6 Ultrium 6250 SAS Drive Upgrade Kit	C0H27A
HPE StoreEver MSL LTO-6 Ultrium 6250 Fibre Channel Drive Upgrade Kit	C0H28A
HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit	EJ014B
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B

Additional Options

HPE StoreEver MSL LTO-5 Ultrium 3000 SAS Drive Upgrade Kit	BL540B
HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HPE StoreEver 1U SAS Rack Mount Kit	AE459B
HPE DAT Autoloader	
HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 FC Tape Autoloader	N7P34A
HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 SAS Tape Autoloader	N7P35A
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	C0H19A
HPE StoreEver 1/8 G2 LTO-5 Ultrium 3000 SAS Tape Autoloader	BL536B
HPE MSL2024 Tape Library	
HPE StoreEver MSL2024 0-drive Tape Library	AK379A
HPE MSL4048 Tape Library	
HPE StoreEver MSL4048 0-drive Tape Library	AK381A
HPE StoreEver MSL6480	
HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A
HPE StoreEver MSL6480 Scalable Base Module	QU625A
NOTE: Please see the HPE StoreEver MSL6480 Tape Library	
QuickSpecs for Technical Specifications and additional information).	

HPE Disk Backup

HPE RDX Removable Disk Backup System

HPE RDX 4TB USB 3.0 External Disk Backup System	Q2R33A
HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A
HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A
HPE RDX 2TB USB3.0 External Disk Backup System	E7X53B
HP RDX+ 1TB External Backup System	B7B69B
HP RDX+ 500GB External Backup System	B7B66B
HPE RDX+ External Docking System	C8S07B
HPE D3700 Enclosure	QW967A
HPE D3600 Enclosure	QW968A
HPE StoreOnce 5100 48TB System	BB915A
HPE StoreOnce 3540 24TB System	BB914A
HPE StoreOnce 3520 12TB System	BB922A
HPE StoreOnce 3100 8TB System	BB913A

NOTE: For the complete range of RDX drives and media see:

https://www.hpe.com/us/en/product-catalog/storage/disk-based-backup-systems.html. For hardware and software compatibility of HPE

disk backup products see: http://www.hpe.com/storage/spock.

NOTE: Please see the HPE RDX Removable Disk Backup System

QuickSpecs for additional part numbers, Technical Specifications, and additional information

HPE Storage

Emulex Fibre Channel HBAs

	The state of the s	/ GCIICI GCIOII3 (
Additional Op	otions	
Options	HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
	HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus	C8R39A
	Adapter	
	HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A
	QLogic Fibre Channel HBAs	
	HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus	QW971A
	Adapter	Q 1107 17 C
	HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
	Converged Network Adapter	
	HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
	HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
	HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
HPE Data Co	enter HPE Advanced Series Racks	
Racks	HPE 42U 600mm x 1075mm Advanced Pallet Rack	H6J65A
	HPE 42U 600mm x 1075mm Advanced Shock Rack	H6J66A
	HPE 42U 600mm x 1200mm Advanced Pallet Rack	H6J67A
	HPE 42U 600mm x 1200mm Advanced Shock Rack	H6J68A
	HPE 36U 600mm x 1075mm Advanced Pallet Rack	H6J77A
	HPE 36U 600mm x 1075mm Advanced Shock Rack	H6J78A
	HPE 14U 600mm x 1075mm Advanced Shock Rack	H6J82A
	HPE 22U 600mm x 1075mm Advanced Pallet Rack	H6J83A
	HPE 22U 600mm x 1075mm Advanced Shock Rack	H6J84A
	HPE 48U 600mm x 1075mm Advanced Pallet Rack	H6J87A
	HPE 48U 600mm x 1075mm Advanced Shock Rack	H6J88A
	NOTE: Please see the HPE Advanced Series Racks QuickSpecs for	
	information on additional racks options and rack specifications.	
	HPE Enterprise Series Racks	
	HPE 42U 600mm x 1075mm Enterprise Pallet Rack	BW903A
	HP 42U 600mm x 1075mm Enterprise Shock Rack	BW904A
	HP 42U 600mm x 1200mm Enterprise Pallet Rack	BW907A
	HP 42U 600mm x 1200mm Enterprise Shock Rack	BW908A

Additional Options

HP 47U 600mm x 1075mm Enterprise Pallet Rack	BW911A
HP 47U 600mm x 1075mm Enterprise Shock Rack	BW912A
HP 47U 600mm x 1200mm Enterprise Pallet Rack	BW913A
HP 47U 600mm x 1200mm Enterprise Shock Rack	BW914A
HP 42U 800mm x 1075mm Enterprise Pallet Rack	BW917A
HP 42U 800mm x 1075mm Enterprise Shock Rack	BW918A

NOTE: Please see the HPE Enterprise Series Racks QuickSpecs for

information on additional racks options and rack specifications.

CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

HPE Power Distribution Units (PDUs)

HPE Basic Power	Distribution	Linite	(DDII)
HEE DASIC FOWER	DISTIDUTION	UIIIIS	IPDUI

QuickSpecs

HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
NOTE: Please see the HPE Basic Power Distribution Units (PDU)	

for information on additional options and product specifications.

To mornation on additional options and product specifications.	
HPE Metered Power Distribution Units (PDU)	
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A
HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU	G9Z06A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	D9N48A
HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU	D9N51A
HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU	D9N53A
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13 (3) C19/Vertical INTL PDU	D9N55A
HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A

HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlet (32) C13 (4)

HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13 (3)

C19/Vertical INTL PDU

C19/Vertical INTL PDU

D9N50A

D9N57A

Additional Options

HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N58A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) C19/Vertical NA/JP PDU	D9N61A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N62A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU	D9N54A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N59A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	G9Z07A
HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU	D9N63A
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlet (30) C13 (3) C19/Vertical INTL PDU	D9N56A
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	D9N60A
HPE Metered 3Ph 22kVA/60309 5-wire WT 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	G9Z08A
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the HPE Metered Power Distribution Units (PDU)	
QuickSpecs for information on additional options and product	
specifications. HPE Intelligent Power Distribution Unit (PDII)	
HPE Intelligent Power Distribution Unit (PDU)	455004
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF520A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF521A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF521A AF522A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU	AF521A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)	AF521A AF522A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)	AF521A AF522A AF523A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)	AF521A AF522A AF523A AF901A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6)	AF521A AF522A AF523A AF901A AF525A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6)	AF521A AF522A AF523A AF901A AF525A AF526A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V	AF521A AF522A AF523A AF901A AF525A AF526A AF527A

Additional Options

HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF532A
HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit	AF534A
HPE 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU)	
QuickSpecs for information on additional options and product	
specifications.	
LIDE Metered and Switched Deven Dietnikution Unite (DDII)	
HPE Metered and Switched Power Distribution Units (PDU)	1100404
HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU	H8B48A
HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1) C19/Vertical WW PDU	H8B49A
HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	H8B50A
HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	H8B51A
HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	H8B52A
HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5-20R/Vertical NA/JP PDU	H8B53A
HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU	H8B54A
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A
NOTE: Please see the HPE Metered and Switched Power Distribution	
Units (PDU) QuickSpecs for information on additional options and product	
specifications.	
NOTE: To learn more, please visit the HPE Uninterruptible Power	

HPE Rack Mount Consoles, KVM Switches, and Keyboards

HPE Location Discovery Services

HPE Location Discovery Services LCD8500 Kit

NOTE: Please see the HPE Location Discovery Services

QuickSpecs for information on additional options and product specifications.

HPE Rack Mount Consoles

Systems (UPS) web page.

HP LCD8500 1U US Rackmount Console Kit	AF630A
HP LCD8500 1U UK Rackmount Console Kit	AF631A
HP LCD8500 1U DE Rackmount Console Kit	AF632A

TL052A

Additional Options

HP LCD8500 1U FR Rackmount Console Kit	AF633A
HP LCD8500 1U JP Rackmount Console Kit	AF642A
HP LCD8500 1U RU Rackmount Console Kit	AF643A
HP LCD8500 1U INTL Rackmount Console Kit	AF644A
HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
HPE KVM Switches	
HP 0x1x8 G3 KVM Console Switch	AF651A
HP 0x2x16 G3 KVM Console Switch	AF652A
HP TAA 0x2x16 G3 KVM Console Switch	AF653A
HP USB Remote Access Key for G3 KVM Console Switches	AF650A
HP KVM Console USB Interface Adapter	AF628A
HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
HP 1x4 USB/PS2 KVM Console Switch	AF611A
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
NOTE: To learn more, please visit the HPE KVM Switches web page.	
HPE USB Keyboard and Mouse	
HPE USB US Keyboard/Mouse Kit	631341-B21
HPE USB INTL Keyboard/Mouse Kit	672097-B33
Rail Kits	
HP 1U Small Form Factor Easy Install Rail Kit	734807-B21
NOTE: This applies to both LFF and SFF models and it does not include	
cable management arm.	
HPE 1U Cable Management Arm for Easy Install Rail Kit	734811-B21
HP 1U Short Friction Rail Kit	775612-B21
HPE Other Options	
HPE Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP ConvergedSystem Door Branding Kit	TK815A
HP ConvergedSystem Rack Light Kit	TK816A
HP ConvergedSystem Rack Side Panel 1075mm Kit	TK817A
HPE DirectFlow Three Phase UPS	

HPE Uninterruptible Power Unit (1U UPS) **Power Systems** (UPS)

HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System G9Y75A AF478A HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System

Additional Options

HPE RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF437A
Input/Output Module Options for 1U UPS	
HPE 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 Input/Output Module	AF488A
HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A
HPE 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module	AF490A
HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF491A
HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF492A
HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9Y76A
HPE DirectFlow UPS Management Card	AF493A
Power Unit (2U UPS)	
HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
Input/Output Module Options for 2U UPS	
HPE 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309 Input/Output Module	AF483A
HPE 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated Input/Output Module	AF485A
HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF486A
HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484A
NOTE: All Input/Output Modules support dual output outlets except the AF484A.	
Battery Pack Options	
HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HPE WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible	
Power System QuickSpecs for information on additional options and	
product specifications.	
HPE Tower UPS	
HPE T750 G4 UPS Models	1050=:
HPE T750 G4 NA/JP Uninterruptible Power System	J2P85A
HPE T750 G4 INTL Uninterruptible Power System	J2P88A
HPE T1000 G4 UPS Models	

Additional Options

HPE USB and

HPE Support Services

SD Options

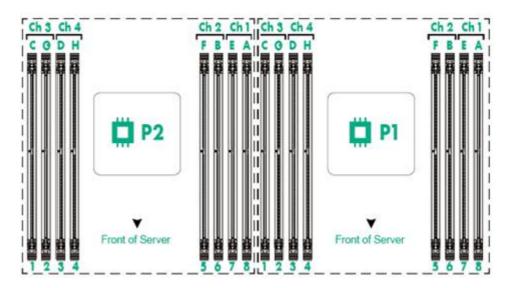
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	HPE T1000 G4 NA/JP Uninterruptible Power System	J2P86A
	HPE T1000 G4 INTL Uninterruptible Power System	J2P89A
	HPE T1500 G4 UPS Models	
	HPE T1500 G4 NA/JP Uninterruptible Power System	J2P87A
	HPE T1500 G4 INTL Uninterruptible Power System	J2P90A
	HPE Rack/Tower UPS	
	HPE R/T2200 G4 UPS Models	
	HPE R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
	HPE R/T3000 G4 UPS Models	
	HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
	HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
	HPE R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
	R1500 G4 Models	
	HPE R1500 G4 NA Uninterruptible Power System	J2Q99A
	HPE R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
	HPE R1500 G4 INTL Uninterruptible Power System	J2R03A
	R7000 Uninterruptible Power System (UPS)	
	HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
	HPE R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
	R5000 Uninterruptible Power System (UPS)	
	HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
	HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power	AF461A
	System	
	NOTE: Please see the HPE Line Interactive Single Phase UPS	
	QuickSpecs for information on additional options and product specifications.	
	HPE UPS Options	
	HPE R/T2200 G4 Extended Runtime Module	J2R09A
	HPE R/T3000 G4 Extended Runtime Module	J2R10A
	HPE 2U Rack/Tower UPS Shipping Kit	L4Q11A
	NOTE: To learn more, please visit the HPE Uninterruptible Power	
	Systems (UPS) web page	
_		
	HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
	HPE 32GB microSD Mainstream Flash Media Kit	700139-B21
	HPE Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
	HPE 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	Foundation Care	
	HPE 3 year Foundation Care 24x7 DL160 Gen9 Service	U7AZ7E
	HPE 3 year Foundation Care 24x7 wDMR DL160 Gen9 Service	U7AZ8E
		3

Additional Options

HPE 3 year Foundation Care 24x7 wCDMR DL160 Gen9 Service	U7AZ9E
Proactive Care	
HPE 3 year Proactive Care 24x7 DL160 Gen9 Service	U7BA0E
HPE 3 year Proactive Care 24x7 with DMR DL160 Gen9 Service	U7BA1E
HPE 3 year Proactive Care 24x7 with CDMR DL160 Gen9 Service	U7BA2E
Installation & Start-up Services	
HPE Installation ProLiant DL160/DL360e Service	U6E11E
HPE Installation and Startup Entry ML DL Server Service	U6E13E

Memory

Memory Population guidelines



General Memory Population Rules and Guidelines:

- . Install DIMMs only if the corresponding processor is installed.
- . If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- . To maximize performance, it is recommended to balance the total memory capacity between all installed processors and load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- . Place the DIMMs with the highest number of ranks in the white slot when mixing DIMMs of different ranks on the same channel.
- . Do not mix RDIMMs or LRDIMMs.
- . Quad rank RDIMMs are not supported in HPE ProLiant DL160 Gen9 servers.
- . Quad rank LRDIMMs are capable of up to two DIMMs per channel.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- . The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors.
- . To realize the performance memory capabilities listed in this document, HPE SmartMemory is required.

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v4 Series Processor Family

Memory

[DIMM Туре]	Regis	Registered DIMMs (RDIMMs)					
HPE SKU P/N	805347- B21	805349- B21	836220- B21	805351- B21	805353- B21	805358- B21	
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	
DIMM Capacity	8GB	16GB	16GB	32GB	32GB	64GB	
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	
DRAM Depth [bit]	1G	2G	1G	2G	2G	2G	
DRAM Width [bit]	x8	x4	x4	x4	x4	x4	
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb	8Gb	
CAS Latency	17-17- 17	17-17- 17	17-17- 17	17-17- 17	17-17- 17	17-17- 17	
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400	2400	
SLOTS THAT CAN BE POPULATED							
16 slot servers	16	16	16	16	16	16	
MAXIMUM CAPACITY (GB)							
	128	256	256	512	512	1024	
POPULATED DIMM SPEED (MT/s)	l						
1 DIMM Per Channel	2400	2400	2400	2400	2400	2400	
2 DIMM Per Channel	2133	2133	2133	2133	2400	2400	
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a	n/a	

NOTE: DL160 has 2 DIMMs per channel and hence 3 DIMMs per channel memory speeds are not applicable on DL160.

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v3 Series Processor Family

Memory

[DIMM Type]	Re	egistere	d DIMMs	Load Reduced (LRDIMMs)				
HPE SKU P/N	726717- B21	726718- B21	759934- B21	726719- B21	728629- B21	726720- B21	726722- B21	726724- B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Quad Rank
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB	64GB
Voltage	Std Voltage 1.2V							
DRAM Depth [bit]	512M	1G	512M	1G	1G	2G	2G	2G
DRAM Width [bit]	x8	x4	x8	x4	x4	x4	x4	x4
DRAM Density	4Gb	4Gb	4Gb	4Gb	4Gb	8Gb	8Gb	8Gb
CAS Latency	15-15- 15							
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133	2133
SLOTS THAT CAN BE POPULAT	ED							
16 slot servers	16	16	16	16	16	16	16	16
MAXIMUM CAPACITY (GB)						,		
	64	128	128	256	512	256	512	1024
POPULATED DIMM SPEED (MT/s	s)				J	J		
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133
2 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133
3 DIMM Per Channel	n/a							

NOTE: DL160 has 2 DIMMs per channel and hence 3 DIMMs per channel memory speeds are not applicable on DL160.

Memory

configuration diagram

DIMM slot and DIMM slot and configuration diagrams Basic memory slot & population diagram

- Population order; start with "A" first, "B" second, "C" third, etc.
- When one processor is installed, install DIMMs in sequential alphabetic order: A, B, C, D, E, F.
- When two processors are installed, install DIMMs in sequential alphabetic order: CPU1-A, CPU2-A, CPU1-B, CPU2-B, CPU1-C, CP2-C.

CPU #1 IS PROCESSOR ON RIGHT - LOOKING FROM FRONT OF SERVER

	CPU 1			CPU 2				
	Slot #	Population order	Slot #	Popula	tion order			
Chnl 3	1	С	1	С	Chnl3			
	2	G	2	G				
		CPU 1			CPU 2			
	Slot #	Population order	Slot	Popula	tion order			
Chnl 4	3	D	4	D	Chnl 4			
	4	H	5	Н				
CPU 1		CPU 2						
	Slot #	Population order	Slot #	Popula	tion order			
Chnl 2	5	F	7	F	Chnl 2			
	6	В	8	В				
		CDU 4			ODII 0			
	CPU 1		Slot	Slot Population order				
	Slot #	Population order	#	Popula	lion order			
Chnl 1	7	E	10	E	Chnl 1			
	8	A	11	Α				

Memory Speed by **Processor** Model

Processor Models	Supported Memory Speeds
E5-2609v3, E5-2603v3	1600MT/s
E5-2640v3, E5-2630v3, E5-2620v3, E5-	1866MT/s
2630Lv3, E5-2623v3	
E5-2660v3, E5-2650v3, E5-2650Lv3	2133MT/s
E5-2609v4, E5-2603v4	1866MT/s
E5-2630Lv4, E5-2620v4, E5-2623v4, E5-	2133MT/s
2640v4, E5-2630v4	
E5-2650Lv4, E5-2660v4, E5-2650v4, E5-	2400MT/s
2680v4, E5-2695v4, E5-2683v4	

Memory

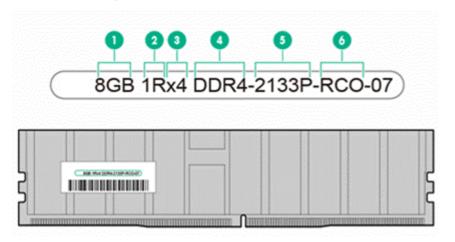
Standard and Maximum Memory Capacity (Preconfigured Models)

Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
E5-2620v4	16GB (1x16GB)	496GB (15x32GB, 1x16GB)	1024GB (16x64GB)
E5-2609v3	16GB (2x8GB)	464GB (14x32GB, 2x8GB)	1024GB (16x64GB)
E5-2603v4, E5- 2603v3	8GB (1x8GB)	488GB (15x32GB, 1x8GB)	1024GB (16x64GB)

DDR4 memory options part number decoder

NOTE: Capacity references are rounded to the common gigabyte (GB) values.

- 2GB = 2,048MB
- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



Storage



1-8 8 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays



1-4 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drives Bays

Technical Specifications

System Unit Dimensions 8 SFF - 1.7 x 17.1 x 23.9 inches (4.29 x 43.46 x 60.76 cm)

(H x W x D) 4 LFF - 1.7 x 17.1 x 23.9 inches (4.29 x 43.46 x 60.76 cm)

Weight Maximum: 33.04 lb (15kg)

(all hard drives, power supply, and processor installed)

Minimum: 22.03 lb (10kg)

(one hard drive, power supply, and processor installed)

Input Requirements Rated Line Voltage 100 to 240 VAC

(per power supply) Rated Input Current For 550W Power Supply:

6.7 A (at 100 VAC) 3.3 A (at 100 VAC)

Rated Input 47 to 63 Hz

Frequency

Rated Input Power For 550 W Power Supply:

< 670 W (at 100 VAC) < 660 W (at 200 VAC)

BTU Rating Maximum For 550 W Power Supply:

2201 BTU/hr (at 100 VAC) 2153 BTU/hr (at 200 VAC)

Power Specifications To review typical system power ratings use the Power Advisor

which is available via the online tool located at URL:

<u>http://www.hpe.com/info/hppoweradvisor</u> - Click on the system of interest. Example: DL160 Gen9- Follow the

instructions of the next screens.

Power Supply Output Rated Steady-State For 550 W Power Supply:

Power 550 W (at 100 VAC)

550 W (at 200 VAC)

Maximum Peak For 550 W Power Supply:

Power 550 W (at 100 VAC)

550 W (at 100 VAC)

550 W (at 200 VAC)

System InletStandard Operating 10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per

every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with

a fan fault or above 30°C (86°F).

Extended Ambient For approved hardware configurations, Operating Support the supported system inlet range is

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Technical Specifications

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.

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.

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

NOTE: Supports A3 and A4 extended ambient.

Non-operating -30° to 60°C (-22° to 140°F). Maximum

rate of change is 20°C/hr (36°F/hr).

Relative Humidity Operating Minimum to be the higher (more

moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.

Non-operating 5% to 95% relative humidity (Rh), 38.7°C

(101.7°F) maximum wet bulb temperature, non-condensing.

Altitude Operating 3048 m (10,000 ft). This value may be

limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

Non-operating 9144 m (30,000 ft). Maximum allowable

altitude change rate is 457 m/min (1500

ft/min).

Acoustic Noise Listed are the declared A-Weighted sound power levels

(LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

Idle

(non-condensing)

Technical Specifications

LWAd Entry 5.1 B

Base 5.2 B

Performance 5.0 B

LpAm Entry 34.2 dBA

Base 35.9 dBA

Performance 34.9 dBA

Operating

LWAd Entry 5.3 B

Base 5.3 B

Performance 5.6 B

Entry 36.3 dBA LpAm

Base 36.2 dBA

Performance 39.7 dBA

Emissions

Classification (EMC)

FCC Rating

Class A Normative CISPR 22; EN55022; EN55024; FCC

Standards CFR 47, Pt 15; ICES-003; CNS13438;

GB9254; K22; K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1

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

HPE Dynamic Smart Array B140i Controller

Number of PCI links

Four

PCI link rate

4Gb/s

Storage protocol

SATA

support

SAS/SATA peak data

6Gb/s

transfer rate

Number of SAS/SATA

10 links

links

SAS/SATA connectivity

2x4 connectors; 2x1 connectors

Expander support

No

Drives supported (max) Up to 10 Internal Drives

RAID support

0, 1, 10, 5 SATA

Software management HPE SSA, SMH, SIM

Warranty

Server warranty

HPE Secure Encryption Not Supported

license

HPE SmartCache

Not Supported

License

HPE Smart Storage

Administrator

Supported

Technical Specifications

HPE Embedded Dual Port 361i Adapter

Network Interface

10Base-T/100Base-TX/1000Base-TX IEEE 802.3 10Base-T

Compatibility

IEEE 802.3ab 1000Base-T

IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS

IEEE 802.3az - Energy Efficient Ethernet (EEE)

Data Transfer Method

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

Controller

Intel I350 Powerville

Network Transfer Rate

10Base-T (Half-

10 Mb/s per port, 40 Mb/s combined

Duplex)

10Base-T (Full-

20 Mb/s per port, 80 Mb/s combined

Duplex)

100Base-TX (Half-

100 Mb/s per port, 400 Mb/s combined

Duplex)

100Base-TX (Full-

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

Duplex)

1000Base-TX (Half and Full-Duplex)

1000 Mb/s per port, 4000 Mb/s

combined

Connector Two RJ-45

Cable Support 10 Base-T

Categories 3, 4 or 5 UTP; up to 328 ft

(100 m)

10/100/1000 Base-TX Category 5 or higher UTP; up to 328 ft

(100 m)

Environmentfriendly 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.

http://www.hpe.com/recycle

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.

http://www.hpe.com/recycle

Summary of Changes

Date	Version History	Action	Description of Change
25-Sep-2017	From Version 27 to 28	Added	Added new Solid State Drives offering to the HPE Drives section.
		Changed	Core Options and Additional Options were revised.
		Removed	Obsolete SKUs were removed from the
			QuickSpecs.
7-Aug-2017	From Version 26 to 27	Added	Added new Solid State Drives offering to the HPE Drives section.
11-Jul-2017	From Version 25 to 26	Changed	Operating Systems and Virtualization Software Support for ProLiant Servers section was revised.
5-Jun-2017	From Version 24 to 25	Added	Added new Solid State Drives offering to the HPE Drives section. New HPE Networking options were added.
8-May-2017	From Version 23 to 24	Added	Added support for ClearOS in Operating Systems and Virtualization Software Support for ProLiant Servers and Optional Features sections.
		Changed	HPE Drives was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
27-Mar-2017	From Version 22 to 23	Added	Added new Hard Drives.
17-Feb-2017	From Version 21 to 22	Changed	HPE Memory section under Core Options was revised.
3-Feb-2017	From Version 20 to 21	Added	Added new HDD and SSD offering to the HPE Drives section.
		Changed	HPE InfiniBand, HPE Converged Infrastructure Management Software, and HPE USB and SD Options were revised.
		Removed	SKUs 769503-B21, 769504-B21, and 769505-B21 were removed from the Pre-configured Models section.
			Obsolete SKUs were removed from the HPE Processors section.
28-Nov-2016	From Version 19 to 20	Added	Added new Hard Drives offering.
		Changed	Maximum Internal Storage and HPE Tape Backup were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Oct-2016	From Version 18 to 19	Removed	Obsolete Hard Drives were removed.
26-Sep-2016	From Version 17 to 18	Added	Added new 10TB SATA LFF hard drives offering.
·		Changed	Maximum Internal Storage, HPE Storage Options, and HPE Disk Storage Systems were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
10-Jun-2016	From Version 16 to 17	Removed	HPE Dual 32GB microSD Enterprise Midline USB Kit was removed from the QuickSpecs.

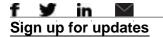
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6-Jun-2016	From Version 15 to 16	Added	Added new HDD offering to the HPE Drives section. Added new options to the HPE PCIe Workload Accelerator Options, HPE Disk Backup, and HPE Disk Storage Systems.
		Changed	Memory, Memory Protection, Interfaces, and HPE Converged Infrastructure Management Software were revised.
6-May-2016	From Version 14 to 15	Changed	Maximum Internal Storage, Upgradeability, Memory, and Technical Specifications sections were revised.
8-Apr-2016	From Version 13 to 14	Changed	HPE Processors section was revised.
31-Mar-2016	From Version 12 to 13	Added	Added new HPE Smart Memory 2400 MHz memory, Intel Xeon E5-2600v4 processor support, new HPE Trusted Platform Module (TPM) 2.0, new 900W AC/240VDC power supply, and new HDD offerings.
		Changed	Maximum Internal Storage, Power Supplies, Upgradeability, Embedded Management, Security, Service and Support, Pre-configured Models, and Memory sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 11 to 12	Added	New HDD offering was added to HPE Drives.
		Changed	HPE Power Supplies, HPE Data Center Racks, and HPE Power Distribution Units (PDUs) were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Dec-2015	From Version 10 to 11	Added	Smart Buy models were added to the NA version.
1-Dec-2015	From Version 9 to 10	Added	New HDD offering was added to HPE Drives. New options added to HPE PCIe Workload Accelerator Options, HPE Disk Backup, and HPE Disk Storage Systems.
		Changed	On System Management Chipset, Maximum Internal Storage, Embedded Management, and Server utilities were revised.
			Product images were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Sep-2015	From Version 8 to 9	Added	Added new 6Gb SATA Solid State Drives. Added new HP OneView management software.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 7 to 8	Added	New Solid Stated Drives offering was added to Core Options.
		Removed	Obsolete SKUs were removed from QuickSpecs.
1-Jun-2015	From Version 6 to 7	Added	New Hard Drives were added to Core Options. HP OneView LTUs were added to HP Converged Infrastructure Management Software. New RDX+ external backup options were added.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from QuickSpecs.

Summary of Changes

30-Mar-2015	From Version 5 to 6	Added	New Hard Drives offering. Optional Software added to HP Storage Controllers.
		Changed	HP Memory, HP Power Supplies, HP Storage Controllers, and HP Disk Storage Systems were revised.
9-Feb-2015	From Version 4 to 5	Added	Added Network controller, new HP Drives, and new G4 UPS models.
		Changed	HP Drives, HP Tape Backup, HP Disk Backup, HP Rack Mount Consoles, KVM Switches, and Keyboards, HP Uninterruptible Power Systems (UPS), HP Networking, and HP Power Distribution Units (PDUs) sections were revised.
1-Dec-2014	From Version 3 to 4	Changed	Changes made throughout the entire QuickSpecs.
13-Oct-2014	From Version 2 to 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to the Core Option section. HPE PCIe Workload Accelerator Options and HPE
			USB and SD options were added to the Additional Options section.
		Changed	Standard Features and Optional Features sections were revised.
19-Sep-2014	From Version 1 to 2	Changed	Changes made throughout the entire QuickSpecs.





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

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