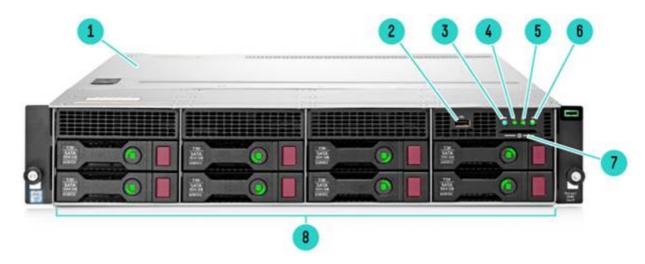
Overview

HPE ProLiant DL80 Generation9 (Gen9)

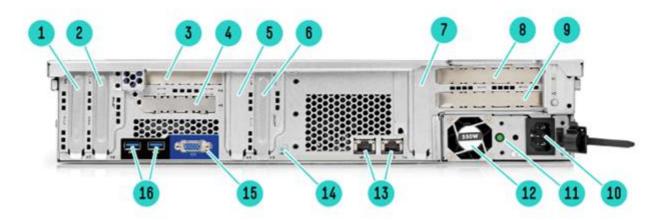
The HPE ProLiant DL80 Gen9 Server is designed with affordable storage, networking and processor scalability, and manageability in a 2U server for cost conscious service provider and SMBs. Apart from basic IT infrastructure workloads this server is ideal for running storage capacity intensive applications like cold storage, back-up due to compelling cost/GB that it offers.



Front View

- 1. Access Panel (Top Cover)
- 3. UID button/LED
- 5. NIC status LED
- 7. Serial label pull tab

- 2. USB 2.0 connector
- 4. Health LED
- 6. Power On/Standby button and system power LED
- 8. 8-bay LFF drive cage bay

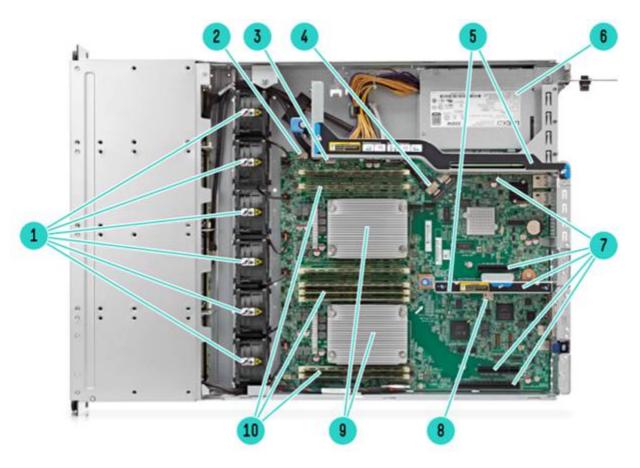


Overview

Rear View

- 1. Slot 7 PCIe3 x16 low-profile, standup
- 3. Slot 4 PCIe3 x8 low-profile, riser (optional)
- 5. Slot 4 PCIe3 x16 low-profile, standup
- 7. Slot 1 PCIe3 x16 low-profile, standup
- 9. Slot 2 PCIe3 x8 full-height half-length riser (optional)
- 11. Power supply status LED
- 13. Embedded 2x1GbE network adapter
- 15. Video connector

- 2. Slot 6 PCIe3 x8 low-profile, standup
- 4. Slot 5 PCIe3 x8 FlexibleLOM riser (optional)
- 6. Slot 3 PCIe3 x8 low-profile, standup
- 8. Slot 1 PCIe3 x16 full-height, full-length GPU riser (optional) or Slot 1 PCIe3 x8 (8, 4, 1) full-height, half-length riser (optional)
- 10. Power supply power connection
- 12. Non-hot-plug power supply
- 14. UID LED
- 16. USB 3.0 connectors



Internal View

- 1. Fans shown with 6 Hot-swap fans
- 3. Internal USB 3.0 connector
- 5. PCIe riser kits
- 7. PCIe 3.0 slots
- 9. 2 Processors, heatsink showing, with HPE Smart Socket Guide
- 2. HPE Smart Storage Battery connector (optional)
- 4. Embedded HPE Smart Array B140i Controller
- 6. (Under) Non-Hot Plug HPE Power supply
- 8. MicroSD card slot
- 10. HPE DDR4 SmartMemory DIMM slots. Shown fully populated in 8 slots (4 per processor)

Overview

What's New

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

Standard Features

NOTE: For more information regarding Intel Xeon processors, please see the

following http://www.intel.com/xeon.

Processor	Model	CPU	Cores	L3 Cache	Power	QPI	DDR4 Hz
One of the		frequency					
following	E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
depending on	E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
model	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
	E5-2660v4	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 ollowing depending on nodel	Intel® C610 Ser Intel® E5-2600v Intel® E5-2600v NOTE: For more http://www.inte	3 Processor F 4 Processor F e information	amily		1 A A A A A A A A A A A A A A A A A A A	see the follo	wing URL:

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

Memory One of the following depending on model	Type: HPE SmartMemory and Standard Memory DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)				
	DIMM Slots Available	8	(4 DIMM slots per processor, 4 channels per processor, 1 DIMMs per channel)		
	Maximum Capacity (LRDIMM)	256GB	(8 x 32GB LRDIMM @2400MHz)		
	Maximum Capacity (RDIMM)	256GB	(8 x 32GB LRDIMM @2400MHz)		

Standard Features

Memory Protection One of the	Advanced ECC	Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip.
following depending on	Online Spare	Memory online spare mode detects a rank that is degrading and switches operation to the spare rank.
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.

Expansion Slots

Motherboard slots (Standard)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 3.0	x16	x16		Low profile	CPU 1 slots
	3	PCIe 3.0	x8	x8		Low profile	CPU 1 slots
	4	PCIe 3.0	x16	x16		Low profile	CPU 1 slots
	6	PCIe 3.0	x8	x8		Low profile	CPU 2 slots
	7	PCIe 3.0	x16	x16		Low profile	CPU 2 slots
	NOTE: Bus connector.	Width data indic	ates the n	umber of physi	cal electrica	al lanes runni	ng to the
Primary Riser (Optional)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 3.0	x8	x8		Full-height, half-length slot	CPU 1 slots
	2	PCIe 3.0	x8	x8		Full-height, half-length slot	CPU 1 slots
Flexible LOM Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
(Optional)	4	PCIe 3.0	x8	x8		Low profile	CPU 1 slots
	5	PCIe 3.0	x8	x8		Flexible LOM	CPU 1 slots
	NOTE: This	riser is mandato	ry for insta	alling FlexibleL	OMs.		
GPU riser (Optional)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 3.0	x16	x16			Full-height, full-length slot
	NOTE: Whe	n populating slo	ts on seco	nd riser, a sec	ond proces	sor must be i	nstalled.
Storage	Entry Models	HPE D	ynamic Sr	nart Array B14	0i Controlle	r	

Standard Features

Controller One of the	NOTE: Provides si 6Gb/s and support	upport for up to 10 SATA drives and data transmission speeds up to ts RAID 0, 1 & 5.
following depending on	Base Models	HPE H240 FIO Smart Host Bus Adapter
model		rides support for up to 8 SAS/SATA drives, data transmission speeds supports RAID 0, 1 & 5.

Internal Storage	Optical Drive	Via USB only
Devices One of the	Hard Drives	None ship standard
following	Hard Drive Bays	12 LFF drive bays total without Optical Bay
depending on model		8 LFF drive bays total without Optical Bay

Maximum Internal		CAPACITY	CONFIGURATION
Storage	Hot Plug LFF SAS	96.0TB	12 x 8TB (with 12LFF drive cage)
One of the following	Hot Plug LFF SATA	96.0TB	12 x 8TB (with 12LFF drive cage)
depending on model	Hot Plug LFF SATA SSD	46.08TB	12 x 3.84TB (with 12LFF drive cage)
	Non Hot Plug LFF SATA	32TB	8 x 4TB (with 8LFF drive cage)

Power SupplyHPE 550W FIO Power SupplyOne of theHPE 900W AC 240V DC Redundar

following depending on model

HPE 900W AC 240V DC Redundant Power Supply

Looking for high-efficiency power solutions at an entry-level price for your ProLiant
 Gen9 Essential Server? HPE Entry-Level Power Supplies offer an optimized set of features with options for both redundant and non-redundant power configurations.

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

The HPE 900W AC 240VDC Power Input Module with Power Backplane can be configured to support power redundancy in ProLiant servers that offer only a single power supply bay, providing additional protection against power loss. With an 80 Plus Gold power efficiency rating (up to 92%), this power option helps to reduce operating expenses while protecting against trapped power capacity in the data center. Hot-plug AC power input modules allow for better serviceability with fast and easy deployment and replacement.

System Fans	1P model	Non-redundant	Redundant	
One of the		2 fans	4 fans	
following	NOTE: Redundant and non-redundant fan counts vary with riser selection.			
depending on	1P configurations either one of primary and secondary risers need 3 fans in non-			
model	redundant configuration.			
		Non-redundant	Redundant	
	2P model	4 fans	5 fans	

Standard Features

NOTE: Customers may separately purchase redundant fans with the 765516-B21 option kit. Additional fans (two) are also included in -B21 processor option kits when upgrading from one processor to two processors. **NOTE:** All the riser option kits ship with necessary fan option kits.

Interfaces Video 1 (Vaux Support) LOM Network Ports 2 x 1GbE ports 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. USB Up to 4 USB ports (standard); Front: 1xUSB 2.0 std; (1xUSB2.0 optional upgrade with quick release ears) Rear: 2xUSB 3.0 Internal: 1x USB 3.0 **Microsoft Windows Server** Operating Systems and Red Hat Enterprise Linux (RHEL) Virtualization SUSE Linux Enterprise Server (SLES) Software Support **VMware** for ProLiant ClearOS Servers **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 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 Upgradeable to 2 processors (28 cores) One of the **NOTE:** Processor upgrade from E5-2600v3 to E5-2600v4 is supported. Please refer to following DL80 Gen9 User Guide for more details. depending on Up to 8 DIMM slots model **NOTE:** To take advantage of DIMMs 5-8, a second processor must be installed. FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options

NOTE: To take advantage of the additional 2 PCI slot upgrade, a second processor must be installed.

Redundant Power Supply Redundant Fan

Industry StandardACPI 2.0b CompliantCompliancePCIe 3.0 CompliantPXE Support

Standard Features

Graphics	Integrated Matr • 1280 x 10 • 1920 x 12	
HPE Server UEFI/Legacy ROM	better managea interacting with and can be fact NOTE: The UE Utility (RBSU) of	ble Firmware Interface (UEFI) is an industry standard that provides ability and more secured configuration than the legacy ROM while your server at boot time. HPE ProLiant Gen9 platform defaults to UEFI tory or field configured for Legacy BIOS Boot Mode. FI System Utilities function is analogous to the HPE ROM-Based Setup of legacy BIOS. For more information, please visit e.com/servers/uefi .
	 Secure Be Operating Support for USB 3.0 Secure Embedde Mass Correst PXE boot Boot support 	system specific functionality or > 2.2 TB (using GPT) boot drives Stack
	configured prop NOTE: UEFI F	FI Boot Mode, boot environment and OS image installations should be berly to support UEFI. IO Setting (758959-B22) can be selected to configure the system in the factory for your HPE ProLiant Gen9 Server.
Form Factor One of the following depending on model	8 LFF Drive Ba 3.44 (8.75cm) H 12 LFF Drive B	with Easy Install rails (Cable management arm optional). y Version: Height x 17.54" (44.55 cm) Width x 23.9" (60.70 cm) 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 .

Standard Features		
	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 <u>http://www.hpe.com/info/restfulapi</u> .
	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	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.
	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.

Standard Features	5				
	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 <u>http://www.hpe.com/info/insightonline/explore</u> .			
Security	Power-on pass	sword			
	Serial interface control				
	Administrator's password				
	TPM 1.2				
	TPM 2.0				
	NOTE: TPM 2	.0 works only in UEFI Mode.			
	UEFI				
Warranty	and a worldwic diagnostic sup Support for sof Enhancements services or cus three year war NOTE: Server with next busin use of Custom Mandatory CS result when cu	 covered by a global limited warranty and supported by HPE Services de network of HPE Authorized Channel Partners resellers. Hardware port and repair is available for three years from date of purchase. tware and initial setup is available for 90 days from date of purchase. to warranty services are available through HPE Pointnext operational stomized service agreements. Hard drives have either a one year or ranty; refer to the specific hard drive QuickSpecs for details. Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support ness day response. Warranty repairs may be accomplished through the er Self Repair (CSR) parts. These parts fall into two categories: 1) R parts are designed for easy replacement. A travel and labor charge will stomers decline to replace a Mandatory CSR part; 2) Optional CSR parts ned for easy replacement but may involve added complexity. Customers 			

Optional	Features
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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 <u>http://www.hpe.com/servers/iLO/scale-out</u> .	
	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 <u>http://www.hpe.com/servers/iloadvanced</u> .	
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	intelligent solu infrastructure s performance of help secure yo to changes in monitor, deplo leader, Hewlet power, cooling	and Power Infrastructure products and services create highly efficient and olutions for existing or new IT data centers. HPE Rack and Power e solutions - rack infrastructure, power protection and management, e optimized data centers (PODs) - are the foundation you are looking for to your long-term IT success. These products are designed to help you react n the industry. They deliver efficient, easy-to-use capabilities to manage, oloy and provision infrastructure from entry to enterprise. As an industry lett Packard Enterprise is uniquely positioned to address the key concerns of ing, cable management and system access. at <u>HPE Rack and Power Infrastructure</u> .	
High Performance Clusters	ProLiant clusten networks and Red Hat Enter Windows HPE	Cluster Platforms are specifically engineered, factory-integrated large-scale ant clusters optimized for High Performance Computing, with a choice of servers, orks and software. Operating system options include specially priced offerings for lat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft bws HPEC Server. A Cluster Platform Configurator simplifies ordering. c://www.hpe.com/us/en/solutions/hpc-high-performance-computing/hpc- tare.html.	

Optional Feature 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
	• 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 <u>http://www.hpe.com/info/vsa1TB</u> .
	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

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

Support 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&Ic=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 EducationKeep 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 SupportThe 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

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

For more information: http://www.hpe.com/services

Pre-configured Models

	Entry Models	Base Models
[SKU Number]	830013-B21	833869-B21
Model Name	HPE ProLiant DL80 Gen9 E5-2603v4 4GB-R B140i 4LFF Non-hot Plug 550W PS Entry Server	HPE ProLiant DL80 Gen9 E5-2609v4 8GB- R H240 8LFF 550W PS Base Server
Processor	Intel® Xeon® E5-2603v4	Intel® Xeon® E5-2609v4
Number of		One
Processors		
Memory	8GB (1x8GB Registered DIMMs STND, 2400 MHz)	8GB (1x8GB Registered DIMMs, 2400 MHz)
	NOTE: Due to processor limitation, these	NOTE: Due to processor limitation, these
	DDR4 DIMMs will operate at 1833 MHz in this model.	DDR4 DIMMs will operate at 1833 MHz in this model.
Network Controller	HPE Embedded Dual Port 361i Adapter Network Interface	
Storage Controller	r HPE Dynamic Smart Array B140i HPE H240 Smart Host Bus Adapter	
Hard Drive	None ship standard	
Internal Storage	4 LFF HDD Bays (Non Hot Plug)	8 LFF HDD Bays
Optical Drive Bay	Not A	Available
Optical Drive	Optional via HPE Mobile US	B DVDRW Drive (701498-B21)
PCI-Express Slots	3 PCIe 3.0 slo	ts (Without risers)
Power Supply	(1) HPE 550W	FIO Power Supply
Fans	2 hot swap fans, non-redundant	4 hot plug fans, redundant
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional)	
Form Factor		E Easy Install Rails
Warranty	Server Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response	

Country Code	xx1 = B21	Worldwide
Кеу	NOTE: The -B21 W	W SKU is to be ordered in all countries other than Japan or PRC.
	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)

	1		
[Chassis]	assis] HP ProLiant DL80 Gen9 HP ProLiant DL80 Gen9 HP ProLian		HP ProLiant DL80 Gen9
	Non-hot Plug 4LFF	8LFF Configure-to-order	12LFF Configure-to-order
	Configure-to-order Server	Server	Server
SKU Number	778686-B21	778685-B21	787217-B21
Processor	2 (or	otional) x HPE Smart Socket Gu	ide
DIMM Slots	8 DIMM slots for RDIMM, LRDIMM DDR4 Memory		
Storage	HPE Dynamic Smart Array B140i		
Controller			
PCle	5 Low Profile PCIe 3.0 slots		
Drive Cage	4LFF Non Hot Plug 8LFF Hot Plug 12LFF Hot Plug		
Network	HPE Embedde	ed Dual Port 361i Adapter Netwo	ork Interface
Controller			
Fans	2 hot swap fans, non-redundant		
Management	iLO Management (standard), Intelligent Provisioning (standard)		
USB	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 xxxxx-L21
- If two processors are desired, select one xxxxx-L21 and one xxxxx-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.
- HPE memory options from previous generation servers are not qualified or

Configuration Information - Factory Integrated Models

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.
- 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.

Step 3: Choose Additional Factory Integratable Options

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

Configuration Information - Factory Integrated Models

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: <u>http://www.hpe.com/go/ProLiantNICs</u>.

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 Graphics Select one or more graphics adapter from Additional Options section below.

- Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located at: <u>http://www.hpe.com/info/hppoweradvisor</u>.
- This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.
- **HPE Cooling** Select one or more Fan Kits from Core Options section below.
 - This section may contain FIO options, please see HPE Cooling Options section below.
 - FIO indicates that this option is only available as a factory installable option.

HPE Storage Controllers

Options

Options

- 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.

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

• 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 Options	HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit NOTE: Required to upgrade from 4LFF NHP to 8LFF NHP models.	788355-B21
	HP DL80 Gen9 Full Height Half Length Riser Kit	765515-B21
	NOTE: Includes two FHHL PCIe 3.0 slots and one fan.	
	HP DL80 Gen9 GPU Enablement Kit	765518-B21
	NOTE: Includes 1 FHFL slot, one fan and power cable required to enable GPU support. Either one of FHHL or FlexibleLOM riser or GPU riser can be selected.	
	HP DL80 Gen9 FlexibleLOM Riser Kit	765514-B21
	NOTE: Includes one FlexibleLOM slot, one Low Profile slot and one fan.	
	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 DL80 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	803091-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	803091-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit	803093-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit	803093-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14- core/35MB/65W) Processor Kit	803095-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14- core/35MB/65W) FIO Processor Kit	803095-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10- core/25MB/55W) Processor Kit	803097-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10- core/25MB/55W) FIO Processor Kit	803097-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit	803087-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit	803087-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit	803089-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit	803089-L21

Core Options

HPE DL80 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14- core/35MB/105W) Processor Kit	803079-B21
HPE DL80 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14- core/35MB/105W) FIO Processor Kit	803079-L21
HPE DL80 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12- core/30MB/105W) Processor Kit	803081-B21
HPE DL80 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12- core/30MB/105W) FIO Processor Kit	803081-L21
HPE DL80 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit	803083-B21
HPE DL80 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	803083-L21
HPE DL80 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	803085-B21
HPE DL80 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	803085-L21
E5-2600v3 series Processors	
HP DL80 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	765521-B21
HP DL80 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	765523-B21
HP DL80 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	765525-B21
HP DL80 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	765526-B21
HP DL80 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	765530-B21
HP DL80 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	765531-B21
HP DL80 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	780100-B21
HP DL80 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	765528-B21
HP DL80 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	765529-B21
HP DL80 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	765532-B21
NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported.	
Please refer to DL80 Gen9 User Guide for more details.	
Registered DIMMs (RDIMMs) for E5-2600v4 Series	
HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered	805347-B21

HPE Memory

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

Core Options

UPE Mahila USP Nag Lagdad Quatam DVD DW/ Drive	704 400 504
NOTE: These DIMMs are supported only with E5-2600v3 processors.	
with no Smart Memory features.	
NOTE: These memory options are available as standalone only and cannot be configured in the factory. These are standard memory DIMMs	
Registered Standard Memory Kit	
HPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15	803028-B21
HPE 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803026-B21
HPE Standard Memory for E5-2600v3 Series	.
NOTE: These DIMMs are supported only with E5-2600v4 processors.	
with no Smart Memory features.	
cannot be configured in the factory. These are standard memory DIMMs	
Registered Standard Memory Kit NOTE: These memory options are available as standalone only and	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17	851353-B21
HPE Standard Memory for E5-2600v4 Series	
NOTE: These DIMMs are supported only with E5-2600v3 processors.	
Reduced Memory Kit	120122-021
Reduced Memory Kit HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load	726722-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load	726720-B21
Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
NOTE: These DIMMs are supported only with E5-2600v4 processors.	
Reduced Memory Kit	000000-DZ I
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load	805353-B21
Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series	
Memory Kit NOTE: These DIMMs are supported only with E5-2600v3 processors.	
HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered	d 728629-B21
Memory Kit	
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered	d 726719-B21
HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
Memory Kit	120110 021
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered	726718-B21
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
Registered DIMMs (RDIMMs) for E5-2600v3 Series	
NOTE: These DIMMs are supported only with E5-2600v4 processors.	
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	d 805351-B21

HPE Mobile USB Non Leaded System DVD RW Drive

701498-B21

HPE ProLiant DL80 Generation9 (Gen9)

QuickSpecs

Core Options		
HPE Drives	SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) 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
	SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
	HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	881785-B21
	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 512e Digitally Signed Firmware HDD	819203-B21
	HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	861594-B21
	HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861750-B21
	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 512e HDD	861752-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
	6G SATA SC Hot Plug LFF 7.2K (3.5-inch) Standard Drives	
	HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	858596-B21
	HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	858594-B21
	SAS Hot Plug LFF (3.5-inch) Midline (MDL) 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
	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
	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 512e HDD	861756-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 ProLiant DL80 Generation9 (Gen9)

QuickSpecs

Core Options

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) 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
12G SAS Hot Plug LFF (3.5-inch) SC Mixed Use 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 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) 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 1.6TB 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 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875472-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
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) MU-3 SCC SSD	
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	872346-B21
Hard Drive Blank Kits	

666986-B21

Core Options

HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit 788355-B21

NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.

HPE Networking	1 Gigabit Ethernet adapters	
	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-B2 ²
	HPE Ethernet 10Gb 2-port 561T Adapter	716591-B2 ²
	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B2 ²
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required	
	per each adapter.	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. See cables/options below.	
	25 Gigabit Ethernet adapters	
	HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter	817762-B21
	FlexibleLOM Adapters	
	HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B2 ²
	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B2 ²
	HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B2 ²
	HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B2 ⁻
	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B2 ²
	HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21

	additional information: http://www.hpe.com/servers/ProLiantNICs.	
HPE InfiniBand	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter NOTE: Please see the <u>HPE InfiniBand Options for HP ProLiant and</u> <u>Integrity Servers QuickSpecs</u> for additional information.	764284-B21
HPE I/O Expansion	HP DL80 Gen9 FlexibleLOM Riser Kit NOTE: Includes one FlexibleLOM slot, one Low Profile slot and one fan.	765514-B21
Options	HP DL80 Gen9 Full Height Half Length Riser Kit	765515-B21

NOTE: Please see the QuickSpecs for Technical Specifications and

NOTE: Includes two FLFH PCIe 3.0 slots and one fan.

HPE Ethernet 10Gb 2-port 561FLR-T Adapter

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

700699-B21

727054-B21

Core Options

	HP DL80 Gen9 GPU Enablement Kit NOTE: Includes 1 FHFL slot, one fan and power cable required to enable GPU support. Either one of FHHL or FlexibleLOM riser or GPU riser can be selected.	765518-B21
HPE Power Supplies	HPE Entry-Level Power Supplies HPE 550W Standard FIO Power Supply Kit 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.	730941-B21
	HPE 900W Standard AC 240VDC Power Input Module FIO Kit NOTE: This is a Factory Installed Option (FIO) only. NOTE: RPS Backplane is mandatory to be chosen with this power input module.	828734-B21
	HPE 900W Standard AC 240VDC RPS Power Backplane FIO Kit NOTE: This is a Factory Installed Option (FIO) only. NOTE: This RPS backplane is mandatory to be chosen along with 900W RPS	828735-B21
	input module. HPE 900W Standard AC 240VDC Power Input Module 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	775595-B21
	 module. HPE 900W Standard AC 240VDC RPS Power Backplane 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. 	814835-B21
	 HPE 900W Standard AC 240VDC Redundant Power Supply Kit 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 field 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). 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 	820792-B21

Core Options

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.

HPE Cooling
OptionsHP DL80 Gen9 Redundant Fan Kit765516-B21OptionsNOTE: Includes two fans and is required to move from non-redundant to
redundant fan configurations. Since each riser includes a fan as well,
please refer to user-guide for exact fan requirements to enable fan
redundancy.765516-B21

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	HPE Insight Control	
Software	HPE Insight Control including 1yr 24x7 Technical Support and Updates 1- server LTU	C6N27A
	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	C6N36A
	HPE Insight Control Upgrade from iLO Advanced including 1yr 24x7 Support E-LTU	C6N38ABE
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase n	nultiple
	licenses with a single activation key.	
	NOTE: Customer will receive a license entitlement certificate. The license e certificate must be redeemed online or via fax in order to obtain the license a	
	key(s). Includes one year of 24x7 HPE Software Technical Support and Upd	
	NOTE: Licenses ship without media. The HPE Insight Control Media Kit can	
	separately, or can be downloaded at: https://www.hpe.com/info/insightma	nagement.
	NOTE: For additional license options please see the HPE Insight	
	Control QuickSpecs	
Embedded	HPE iLO Advanced	
Management	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1- server LTU	512485-B21
	HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1- server LTU	BD505A
	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E- LTU	E6U59ABE
	HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E- LTU	E6U64ABE
	HPE iLO Essentials	
	HPE iLO Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE
	HPE iLO Essentials including 3yr 24x7 Tech Support and Updates 1- server LTU	BD774A
	HPE iLO Essentials including 1yr 24x7 Tech Support and Updates 1- server LTU	BD775A
	HPE iLO Essentials including 1yr 24x7 Technical Support and Updates E-LTU	E6U62ABE
	HPE iLO Scale-out	
	HPE iLO Scale-Out 3yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD776A
	HPE iLO Scale-Out 1yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD778A
	HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD776AAE

Additional Option	S	
	HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Tracking LTU	BD777A
	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
HPE Converged	HPE OneView Advanced (with HPE iLO Advanced)	
Infrastructure	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
Management	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
Software	HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
	HPE OneView Advanced (without HPE iLO Advanced)	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
	HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
	HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
	HPE OneView Physical Media Kit LTU	E5Y37A
	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.	
HPE Security	HPE Trusted Platform Module 2.0 Kit	745823-B21
	HPE Trusted Platform Module Option	488069-B21
	HPE 2U Security Bezel Kit	666988-B21
	NOTE: Quick Release Ear FIO kit (P/N: 778109-B21) is required for	
	installing security bezel.	
	HPE DL80 Gen9 Quick Release Ear FIO Kit	778109-B21
	NOTE: Quick Release Ears are mandatory for 12LFF models.	
	HPE DL80 Gen9 Thumbscrew Ear FIO Kit	787211-B21
HPE Storage	SAS Controllers	
Controllers	HPE Smart Array Controllers	
	HPE Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	820834-B21
	NOTE: Includes the HPE Smart Storage Battery.	

Additional Options

HPE Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller NOTE: Includes the HPE Smart Storage Battery.	726897-B21 761874-B21
HPE Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21
HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
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 DL80 Gen9 LFF Smart Array P440/P840 SAS Cable Kit	779619-B21
NOTE: One cable kit must be selected with P440 controller.	
NOTE: Two of these cable kits must be selected with P840 controller.	
HP DL80 Gen9 LFF Smart HBA H240 SAS Cable Kit	779622-B21
NOTE: Two cable Kits must be selected with H240.	
HPE DL60/80/120 Gen9 4LFF Cable FIO Kit	777331-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 controller 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: NHPE 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.	
NOTE: HPE SmartCache comes standard (no licensing is required) if the	
HPE Smart Array P840 Controller is installed in the server.	
HPE Smart Array SR Secure Encryption (Data at Rest	Q2F26AAE
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.	

Additional Opt				
Backup	http://www.hpe.com/storage/storeever. For hardware and software compa	atibility of		
	HPE tape backup products see: http://www.hpe.com/storage/spock.			
	NOTE: For Internal drives to be connected to DL servers please make sure the server between the server bet	hat you		
	order rack mount kit as well.			
	HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A		
	HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A		
	HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B		
	HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B		
	SAS Rack-Mount Tape Solutions			
	HPE StoreEver MSL LTO-7 Ultrium 15000 SAS Drive Upgrade Kit	N7P37A		
	HPE StoreEver MSL LTO-7 Ultrium 15000 FC Drive Upgrade Kit	N7P36A		
	HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit	COL99A		
	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 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 1U SAS Rack Mount Kit	AE459B		
	HPE DAT Autoloader			
	HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 SAS Tape Autoloader	N7P35A		
	HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 FC Tape Autoloader	N7P34A		
	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		
HPE Disk	HPE RDX Removable Disk Backup System			
Backup	HP RDX+ 1TB External Backup System	B7B69B		
	HP RDX+ 500GB External Backup System	B7B66B		
	HPE RDX 2TB USB3.0 External Disk Backup System	E7X53B		
	HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A		
	HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A		
	HPE RDX 4TB USB 3.0 External Disk Backup System	Q2R33A		

HPE D3700 Enclosure

QW967A

Additional Options

	HPE D3600 Enclosure	QW968A
	HPE RDX+ External Docking System	C8S07E
	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 StoreOnce Backup systems	
	HPE StoreOnce 3100 8TB System	BB913A
	HPE StoreOnce 3540 24TB System	BB914A
	HPE StoreOnce 5100 48TB System	BB915A
	HPE StoreOnce 3520 12TB System	BB922A
HPE Storage	Emulex Fibre Channel HBAs	
Options	HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762E
	HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763
	HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38/
	HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A
	QLogic Fibre Channel HBAs	
	HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344/
	HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764/
	HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971/
	HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972/
	Converged Network Adapter	
	HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990/
	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
	HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06/
	HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
HPE Data Cent	er HPE Advanced Series Racks	
Racks	LIDE 4914 COOperative 4075 mm Advanced Dollat Dools	

	Racks		H6J87A H6J88A H6J65A H6J66A H6J67A H6J68A
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Additional Options

	HPE 36U 600mm x 1075mm Advanced Pallet Rack	H6J77A
	HPE 36U 600mm x 1075mm Advanced Shock Rack	H6J78A
	HPE 22U 600mm x 1075mm Advanced Pallet Rack	H6J83A
	HPE 220 600mm x 1075mm Advanced Pallet Rack	H6J84A
	HPE 14U 600mm x 1075mm Advanced Shock Rack	H6J82A
	NOTE: Please see the HPE Advanced Series Racks QuickSpecs for	TIUJUZA
	information on additional racks options and rack specifications.	
	HPE Enterprise Series Racks	
	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
	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
	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.	
HPE Power	HPE Basic Power Distribution Units (PDU)	
HPE Power Distribution	HPE Basic Power Distribution Units (PDU) HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
Distribution		H3X09A
Distribution	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the HPE Basic Power Distribution Units (PDU)	H3X09A
Distribution	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs	H3X09A
Distribution	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications.	H3X09A D9N44A
Distribution	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications. HPE Metered Power Distribution Units (PDU) HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal	
Distribution	 HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications. HPE Metered Power Distribution Units (PDU) HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) 	D9N44A
Distribution	 HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications. HPE Metered Power Distribution Units (PDU) HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical 	D9N44A D9N45A
Distribution	 HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications. HPE Metered Power Distribution Units (PDU) HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) 	D9N44A D9N45A D9N47A
Distribution	 HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications. HPE Metered Power Distribution Units (PDU) HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical NA/JP PDU HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical NA/JP PDU HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) 	D9N44A D9N45A D9N47A D9N48A
Distribution	 HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications. HPE Metered Power Distribution Units (PDU) HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) 	D9N44A D9N45A D9N47A D9N48A D9N51A
Distribution	 HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications. HPE Metered Power Distribution Units (PDU) HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13 (3) 	D9N44A D9N45A D9N47A D9N48A D9N51A D9N53A

Additional Options

HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13 (3) C19/Vertical INTL PDU	D9N57A
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	
QuickSpecs	
QuickSpecs for information on additional options and product specifications.	AF520A
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)	AF520A AF521A
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)	
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)	AF521A
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)	AF521A AF522A
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)	AF521A AF522A AF523A
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)	AF521A AF522A AF523A AF901A
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)C19/Horizontal INTL PDUHPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6)	AF521A AF522A AF523A AF901A AF525A
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)C19/Horizontal INTL PDUHPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6)C19/Horizontal INTL PDUHPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6)C19/Horizontal INTL PDUHPE Intelligent Modular 3Ph 12.8kVA/IEC 60309 60A 4-wire 48A/208V	AF521A AF522A AF523A AF901A AF525A AF526A
QuickSpecsfor information on additional options and product specifications.HPE Intelligent Power Distribution Unit (PDU)HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)C19/Horizontal NA/JP PDUHPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)C19/Horizontal INTL PDUHPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6)C19/Horizontal INTL PDUHPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6)C19/Horizontal INTL PDUHPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6)C19/Horizontal INTL PDU	AF521A AF522A AF523A AF901A AF525A AF526A AF527A

Additional Options

nualtional option	-	
	HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF531A
	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.	
	HPE Metered and Switched Power Distribution Units (PDU)	
	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	
	Systems (UPS) web page	
HPE Rack Mount	t HPE Location Discovery Services	
Consoles, KVM	HPE Location Discovery Services LCD8500 Kit	TL052A
Switches, and	NOTE: Please see the HPE Location Discovery Services	
Keyboards	QuickSpecs for information on additional options and product specifications.	
	HPE Rack Mount Consoles	

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

HPE ProLiant DL80 Generation9 (Gen9)

QuickSpecs

Additional Options

HP LCD8500 1U DE Rackmount Console Kit	AF632A
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
HPE KVM Console USB/Display Port Interface Adapter	AF654A
HPE KVM Console USB 8-pack Interface Adapter	AF655A
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 Softw	
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC	AF621A
Software	
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	ge.
HPE USB Keyboard and Mouse	
HPE USB US Keyboard/Mouse Kit	631341-B21
HPE USB UK Keyboard/Mouse Kit	631344-B21
HPE USB FR Keyboard/Mouse Kit	631346-B21
HPE USB ES Keyboard/Mouse Kit	631348-B21
HPE USB DE Keyboard/Mouse Kit	631358-B21
HPE USB JP Keyboard/Mouse Kit	631360-B21
HPE USB IT Keyboard/Mouse Kit	631362-B21
HPE USB CN Keyboard/Mouse Kit	631364-B21
HPE USB AE Keyboard/Mouse Kit	638212-B21
HPE USB RU Keyboard/Mouse Kit	638214-B21
HPE USB IN Keyboard/Mouse Kit	672097-D63
HPE USB AP/INTL Keyboard/Mouse Kit	672097-373
HPE USB INTL Keyboard/Mouse Kit	672097-B33
HPE USB PT Keyboard/Mouse Kit	672097-133
HPE USB TR Keyboard/Mouse Kit	672097-143
HPE USB CZ Keyboard/Mouse Kit	672097-223

Additional Options

HPE USB FI Keyboard/Mouse Kit	672097-353
HPE USB SE Keyboard/Mouse Kit	672097-103
HPE USB CH Keyboard/Mouse Kit	672097-113
HPE USB KR Keyboard/Mouse Kit	672097-KD3
NOTE: Please see the HPE USB Keyboard and Mouse QuickSpecs	
for information on additional options and product specifications.	
Rail Kits	
HP 2U Small Form Factor Easy Install Rail Kit	733660-B21
HP 2U Cable Management Arm for Easy Install Rail Kit	733664-B21
HPE Other Options	
HPE Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A

HPE Uninterruptible HPE DirectFlow Three Phase UPS

Power Systems	Power Unit (1U UPS)	
(UPS)	HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
	HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
	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
	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 ProLiant DL80 Generation9 (Gen9)

QuickSpecs

Additional Options

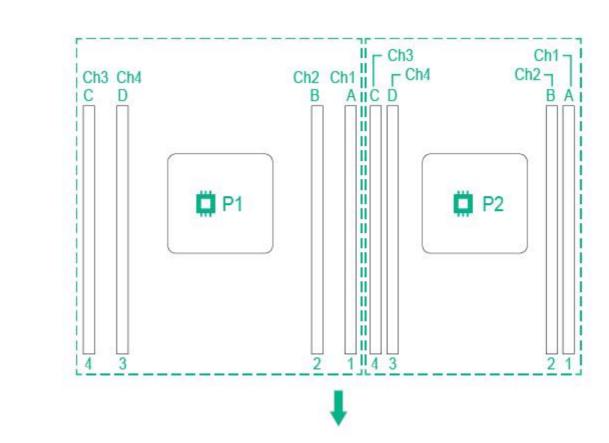
HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309	AF487A
Input/Output Module HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484A
NOTE: All Input/Output Modules support dual output outlets except the AF484A.	
HPE DirectFlow UPS Management Card	AF493A
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	
HPE T750 G4 NA/JP Uninterruptible Power System	J2P85A
HPE T750 G4 INTL Uninterruptible Power System	J2P88A
HPE T1000 G4 UPS Models	
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-mountable 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	AF463A
System R5000 Uninterruptible Power System (UPS)	
HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power	AF460A
System	
- /	

Additional Options		
	HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
	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 <u>HPE Uninterruptible Power</u> Systems (UPS) web page.	
HPE USB and SD	HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
Options	HPE 32GB microSD Mainstream Flash Media Kit	700139-B21
	HPE 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HPE Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
HPE Support	Installation & Start-up Services	
Services	HPE Installation ML/DL Series 10 Service	U7WZ5E
	HPE Startup ML/DL Series 10 Service	U7WZ7E
	Foundation Care	
	HPE 3 year Foundation Care Next business day DL80 Gen9 Service	U7WG1E
	HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service	U7WG2E
	HPE 3 year Foundation Care Next business day with CDMR DL80 Gen9 Service	U7WG3E
	HPE 3 year Foundation Care 24x7 DL80 Gen9 Service	U7WG4E
	HPE 3 year Foundation Care 24x7 wDMR DL80 Gen9 Service	U7WG5E
	HPE 3 year Foundation Care 24x7 wCDMR DL80 Gen9 Service	U7WG6E
	Proactive Care	
	HPE 3 year Proactive Care 24x7 DL80 Gen9 Service	U7WK1E
	HPE 3 year Proactive Care 24x7 with DMR DL80 Gen9 Service	U7WK2E
	HPE 3 year Proactive Care 24x7 with CDMR DL80 Gen9 Service	U7WK3E

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 to load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- . White DIMM slots denote the first slot to be populated in a channel.
- . Do not mix RDIMMs or LRDIMMs.
- . Quad rank RDIMMs are not supported in HPE ProLiant DL80 Gen9 servers.
- . 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

Memory Bandwidth and Capacity					
[DIMM Туре]	Regist	Load Reduced (LRDIMMs)			
HPE SKU P/N	805347- B21	805349- B21	836220- B21	805351- B21	805353- B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank
DIMM Capacity	8GB	16GB	16GB	32GB	32GB
Voltage	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
DRAM Width [bit]	x8	x4	x4	x4	x4
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb
CAS Latency	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
SLOTS THAT CAN BE POPULATED					
8 slot servers	8	8	8	8	8
MAXIMUM CAPACITY (GB)		1			
	64	128	128	256	256
POPULATED DIMM SPEED (MT/s)	I			·	
1 DIMM Per Channel	2400	2400	2400	2400	2400
2 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a

NOTE: DL80 has 1 DIMM per channel and hence 2 DIMMs and 3 DIMMs per channel memory speeds are not applicable on DL80.

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

Memory

Memorv	Bandwidth	and	Capacity
INICITIOT Y	Danuwiutii	anu	Capacity

		•		/= =		–		
[DIMM Туре]	Registered DIMMs (RDIMMs)				Load Reduced			
							(LRDIMMs)	
HPE SKU P/N			759934-	1	1	1	1	
	B21	B21	B21	B21	B21	B21	B21	
DIMM Rank	Single	Single	Dual	Dual	Dual	Dual	Quad	
	Rank	Rank	Rank	Rank	Rank	Rank	Rank	
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB	
Voltage	Std	Std	Std	Std	Std	Std	Std	
	Voltage	Voltage	Voltage	Voltage			, U	
	1.2V	1.2V	1.2V	1.2V	1.2V	1.2V	1.2V	
DRAM Depth [bit]	512M	1G	512M	1G	1G	2G	2G	
DRAM Width [bit]	x8	x4	x8	x4	x4	x4	x4	
DRAM Density	4Gb	4Gb	4Gb	4Gb	4Gb	8Gb	8Gb	
CAS Latency	15-15-	15-15-	15-15-	15-15-	15-15-	15-15-	15-15-	
	15	15	15	15	15	15	15	
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133	
SLOTS THAT CAN BE POPULATED								
8 slot servers	8	8	8	8	8	8	8	
MAXIMUM CAPACITY (GB)								
	32	64	64	128	256	128	256	
POPULATED DIMM SPEED (MT/s)								
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	
2 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

NOTE: DL80 has 1 DIMM per channel and hence 2 DIMMs and 3 DIMMs per channel memory speeds are not applicable on DL80.

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

configuration 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 LEFT - LOOKING FROM FRONT OF SERVER

CPU 1			CPU 2		
	Slot #	Population order	Slot #	Population order	
Chnl 1	1	A1	1	A1	

Memory

		CPU 1		CPU 2
	Slot #	Population order	Slot #	Population order
Chnl 2	2	B2	2	B2
		CPU 1		CPU 2
	Slot #	Population order	Slot #	Population order
Chnl 4	3	D3	3	D3
		CPU 1		CPU 2
	Slot #	Population order	Slot #	Population order
Chnl 3	4	C4	4	C4

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

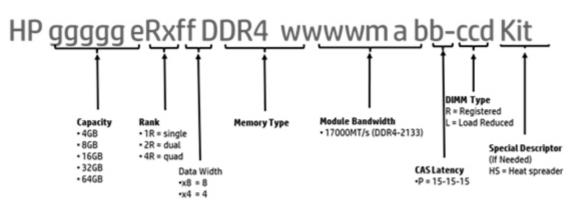
Standard and Maximum Memory	Pre-Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
Capacity (Pre- configured	E5-2609v4, E5- 2609v3, E5-2603v4	8GB (1x8GB)	232GB (7x32GB, 1x8GB)	256GB (8x32GB)
Models)	E5-2603v3	4GB (1x4GB)	228GB (7x32GB, 1x4GB)	256GB (8x32GB)

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

Memory



Storage

4-bay LFF non-hot-plug drive model

				Ⅲ合Ⅲ0**0目
9	81	2	3	84

8-bay LFF non-hot plug drive model

			10H200	
81	82	3	34	
81	82	3	84	6

8-bay LFF hot-plug drive model

			1444A
_	0100	20	840 0
9	0.810 0		D 340 0

12-bay LFF hot-plug drive model

	21	0		8	20		30		84	0	100
-1	81	0		8	20		30		84	0	
	81	0	D	8	20		30		84	0	

- 1-4 4 x LFF SATA Non-Hot Pluggable Hard Drive Bays
- 1-8 8 x LFF SATA Non- Hot Pluggable Hard Drive Bays

- 1-8 8 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays
- 1-12 12 x LFF SATA/SAS/SDD Hot Pluggable Hard drive bays

Technical Specifications

System Unit	Dimensions (with bezel)	3.45 x 18.98 x 24.97	in (8.75 x 44.55 x 60.7 cm)			
	Weight	Maximum:	47.6 lb (21.59 kg)			
	(approximate)	Minimum:	36.58 lb (16.59 kg)			
	Input Requirements	Rated Line Voltage	100 to 240 VAC			
	(for Standard 460W	Rated Input Current	For 550W Power Supply:			
	PSU, see power	·	6.7 A (at 100 VAC)			
	specifications tables for		3.3 A (at 100 VAC)			
	detail on 460W, 750W and 1200W power supplies)	Rated Input Frequency	47 to 63 Hz			
		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: http://www.hpe.com/info/hppoweradvisor - Click on the				
		system of interest. E instructions of the ne	xample: DL80 Gen9- Follow the ext screens.			
	Power Supply Output	-	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 200 VAC)			
	System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°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 Operating Support	For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved			

Technical Specifications		
		hardware configurations for this system are listed at the URL: <u>http://www.hpe.com/servers/ashrae</u> .
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
		NOTE: Supports A3 extended ambient.
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
(non-condensing)	Non-operating	5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457.2 m/min (1500 ft/min).
Acoustic Noise	(LWAd) and decla sound pressure le in a 23°C ambien measured in acco	clared A-Weighted sound power levels ared average bystander position A-Weighted evels (LpAm) when the product is operating t environment. Noise emissions were ordance with ISO 7779 (ECMA 74) and dance with ISO 9296 (ECMA 109).
	Idle	
	LWAd	Entry: 4.8 B
		Base: 4.7 B
	LpAm	Entry: 34 dBA
		Base: 33 dBA
	Operating	
	LWAd	Entry: 4.9 B
		Base: 4.9 B
	LpAm	Entry: 34 dBA Base: 36 dBA
	NOTE: The listed	sound levels apply to standard shipping
		ditional options may result in increased
Emissions	FCC Rating	Class A

Technical Specifications

Classification (EMC) Normative Standards

CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS14336-1; CNS13438; GB4943; GB9254; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements. **NOTE:** The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

		_			
HPE Dynamic	Number of PCI links	Four			
Smart Array B140i Controller	PCI link rate	4Gb/s			
B1401 Controller	Storage protocol support	SATA			
	SAS/SATA peak data transfer rate	6Gb/s			
	Number of SAS/SATA links	10 links			
	SAS/SATA connectivity	2x4 connectors; 2x1 co	onnectors		
	Expander support	No			
	Drives supported (max)	nax) Up to 10 Internal Drives			
	RAID support	0, 1, 10, 5 SATA			
	Software management	nent HPE SSA, SMH, SIM			
	Warranty	Server warranty			
	HPE Secure Encryption	on Not Supported			
	license				
	HPE SmartCache License	Not Supported			
	HPE Smart Storage Administrator	Supported			
HPE Embedded	Network Interface	10Base-T/100Base-TX	/1000Base-TX		
Dual Port 361i	Compatibility	IEEE 802.3 10Base-T			
Adapter		IEEE 802.3ab 1000Bas	se-T		
		IEEE 802.3u 100Base-	ТХ		
		IEEE 1588, IEEE 802.1	IAS		
		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		

Technical Specifi	ications				
		Duplex)	00 Mb/s see set 00 Mb/s see bis set		
		10Base-T (Full- Duplex)	20 Mb/s per port, 80 Mb/s combined		
		100Base-TX (Half- Duplex)	100 Mb/s per port, 400 Mb/s combined		
		100Base-TX (Full- Duplex)	200 Mb/s per port, 800 Mb/s combined		
		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)		
Environment- friendly Products and Approach	End-of-life Management and Recycling	Hewlett Packard Enterprise offers end-of-life product return trade-in, and recycling programs, in many geographic area 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		
		to provide treatment in by treatment facilities. instructions) is posted site. These instruction WEEE treatment facili	ve (2002/95/EC) requires manufacturers formation for each product type for use This information (product disassembly on the Hewlett Packard Enterprise web is may be used by recyclers and other ities as well as Hewlett Packard omers who integrate and re-sell Hewlett quipment.		

http://www.hpe.com/recycle

Summary of Changes

Date	Version History	Action	Description of Change
4-Dec-2017	From Version 25 to 26	Added	Added new HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD.
25-Sep-2017	From Version 24 to 25	Added	Added new SSD offering. Added new Storage options.
		Changed	Core Options and Additional Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
11-Jul-2017	From Version 23 to 24	Changed	Operating Systems and Virtualization Software Support for ProLiant Servers section was revised.
5-Jun-2017	From Version 22 to 23	Added	Added new Solid State Drive option.
8-May-2017	From Version 21 to 22	Added	Added support for ClearOS.
		Changed	Operating Systems and Virtualization Software Support for ProLiant Servers and HPE Drives were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
27-Mar-2017	From Version 20 to 21	Added	Added new Hard Drives.
17-Feb-2017	From Version 19 to 20	Changed	HPE Storage Options section was revised.
13-Feb-2017	From Version 18 to 19	Added	Added new HDD and SSD offering to the HPE Drives section.
		Changed	HPE Converged Infrastructure Management Software and HPE Drives were revised.
		Removed	SKUs 778640-B21 and 778641-B21 were removed from the Pre-configured Models section.
			Obsolete SKUs were removed from the HPE Processors section.
28-Nov-2016	From Version 17 to 18	Added	Added new Hard Drives offering.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Oct-2016	From Version 16 to 17	Removed	Obsolete Hard Drives were removed from the QuickSpecs.
26-Sep-2016	From Version 15 to 16	Added	Added new 10TB SATA Hot Plug LFF drives offering and new 900W AC/ 240VDC power supply.
		Changed	HPE Power Supplies section was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Jun-2016	From Version 14 to 15	Added	Power supply information was added to the Configuration Information - Factory Integrated Models section.

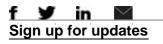
Summary of Changes

6-Jun-2016	From Version 13 to 14	Added	Added new HDD offering to the HPE Drives section.
		Changed	New options added to the HPE Disk Backup and HPE Storage Options.
8-Apr-2016	From Version 12 to 13	Changed	HPE Processors section was revised.
31-Mar-2016	From Version 11 to 12	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, new SATA Hot Plug Standard drives.
		Changed	Power Supply, Upgradeability, Embedded Management, Service and Support, Pre- configured Models, HPE Security, and Memory sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 10 to 11	Added	New HDD offering was added to HPE Drives.
		Changed	HPE Power Supplies, HPE Computation and Graphics Accelerators, 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 9 to 10	Added	Smart Buy models were added to the NA version.
1-Dec-2015	From Version 8 to 9	Added	New options added to HPE Disk Backup, HPE Disk Storage Systems, and HPE Power Distribution Units (PDUs).
		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 QuickSpecs.
28-Sep-2015	From Version 7 to 8	Added	Added new 6Gb SATA Solid State Drives. Added new HPE OneView management
			software.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 6 to 7	Added	New Solid State Drives offering was added to Core Options.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from QuickSpecs.
10-Jun-2015	From Version 5 to 6	Added	Added new HPE Drives:

Summary of Changes HPE 8TB 12G SAS 7.2K rpm LFF (3.5inch) SC 512e Helium 1yr Warranty Hard Drive HPE 6TB 12G SAS 7.2K rpm LFF (3.5inch) SC 512e Helium 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5inch) SC 512e Helium 1yr Warranty Hard Drive HPE 6TB 6G SATA 7.2K rpm LFF (3.5inch) SC 512e Helium 1yr Warranty Hard Drive 1-Jun-2015 From Version 4 to 5 Added New Hard Drives were added to Core Options. Added new HPE Power Supplies options. Added new HPE OneView LTUs to HPE Converged Infrastructure Management Software. New RDX+ backup external backup options added to HPE Disk Backup. Core Options and Additional Options were Changed revised. Removed Obsolete SKUs were removed from QuickSpecs. Added 813534-B21 and 813535-B21 to 24-Apr-2015 From Version 3 to 4 Added HPE Power Supplies. 30-Mar-2015 From Version 2 to 3 Added New Hard Drives offering. Optional Software added to HPE Storage Controllers. HPE Memory, HPE Disk Storage Changed Systems, HPE USB and SD Options, HPE Storage Controllers, and HPE Disk Storage Systems were updated. Added HP Insight Software. 9-Feb-2015 From Version 1 to 2 Added Added new G4 UPS models. Changed HPE Memory, HPE Tape Backup, HPE Disk Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, and HPE Uninterruptible Power Systems (UPS) sections were revised.

Summary of Changes





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

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