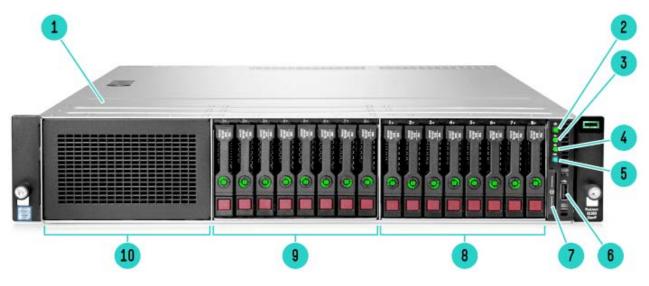
Overview

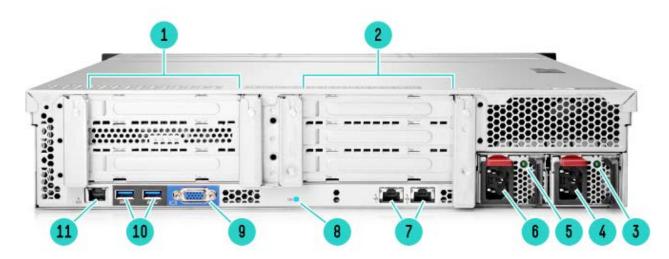
HPE ProLiant DL180 Generation9 (Gen9)

The new standard for growing data center needs. Delivering an optimized 2U server, designed with the right balance of expandability, performance, reliability, and manageability—all in a new compact chassis. The ideal platform for SMBs and enterprises running applications, which need the right mix of compute and storage.



Front View

- 1 Access Panel (Top Cover)
- 3 Health LED
- 5 UID button/LED
- 7 Serial label pull tab
- 9 8-bay SFF drive cage bay (box 2, for the second 8bay SFF drive cage option)
- 2 Power On/Standby button and system power LED
- 4 NIC status LED
- 6 USB 2.0 connector
- 8 Fixed 8-bay SFF drive cage (box 3)
- 10 HPE Media Bay (box 1, for the optical drive cage option)



Rear view



Overview

- 1 PCIe3 slots 1-3 (primary, associated with processor 1)
- 3 Power Supply 2 LED (Optional)
- 5 Power Supply 1 LED (Optional)
- 7 NIC connectors
- 9 Video Connector
- 11 Dedicated iLO connector (optional)

- 2 PCIe3 slots 4-6 (secondary, associated with processor 2)
- 4 Power Supply 2 Power Connector (Optional) **NOTE:** RPS shown in the picture.
- 6 Power Supply 1 Power Connector (Optional)

2 Processors, heatsink showing, with HPE Smart

DDR4 DIMM slots. Shown fully populated in 16

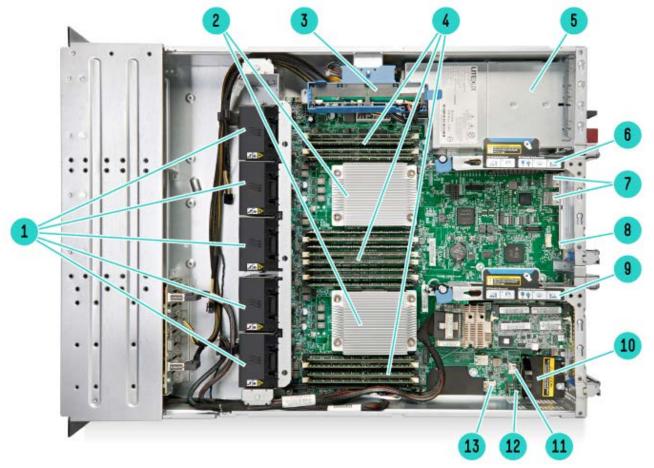
Connection for second (optional) riser (Required

Flexible LOM sideband signal connector

Dedicated iLO module connector

SATA optical drive connector

- 8 UID LED
- 10 USB 3.0 Connectors



Internal View

- 1 Fan cage shown with 5 Hot-swap fans (for 2P Redundancy)
- 3 Optional HPE Smart Storage Battery
- 5 Entry level power supply bay (1x900W shown) **NOTE:** RPS (with one module) shown in the picture above.
- 7 Embedded 2x1GbE NIC
- 9 Primary PCIe riser, standard
- 11 MicroSD card slot
- 13 Internal USB 3.0 connector (for USB flash devices)

What's New

•

New SAS LFF HDDs up to 10TB capacity now brings the DL180 maximum storage capacity to 120TB SAS

2

4

6

8

10

12

Socket Guide

second CPU)

slots (8 per processor)

	Model	CPU	Cores	L3 Cache	Power	QPI	DDR4 Hz
One of the following		frequency					
depending on model	E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
	E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
	E5-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
	E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
	E5-2630v3	2.4GHz	8	20MB	85W	8.0GT/s	1866
	E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
	E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
	E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
	E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
	E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
	E5-2695v4	2.1GHz	18	45MB	120W	9.6GT/s	2400
	E5-2683v4	2.1GHz	16	40MB	120W	9.6GT/s	2400
	E5-2680v4	2.4GHz	14	35MB	120W	9.6GT/s	2400
	E5-2660v4	2.0GHz	14	35MB	105W	9.6GT/s	2400
	E5-2650v4	2.2GHz	12	30MB	105W	9.6GT/s	2400
	E5-2650Lv4	1.7GHz	14	35MB	65W	9.6GT/s	2400
	E5-2640v4	2.4GHz	10	25MB	90W	8.0GT/s	2133
	E5-2630v4	2.2GHz	10	25MB	85W	8.0GT/s	2133
	E5-2630Lv4	1.8GHz	10	25MB	55W	8.0GT/s	2133
	E5-2623v4	2.6GHz	4	10MB	85W	8.0GT/s	2133
	E5-2620v4	2.1GHz	8	20MB	85W	8.0GT/s	2133
	E5-2609v4	1.7GHz	8	20MB	85W	6.4GT/s	1866
	E5-2603v4	1.7GHz	6	15MB	85W	6.4GT/s	1866
Chipset One of the following depending on model	Intel® C610 Series (Intel® E5-2600v3 F Intel® E5-2600v4 F NOTE: For more in http://www.intel.c	Processor Family Processor Family formation rega	y rding Intel		se see the fol	lowing URL:	
On System Management	HPE iLO (Firmware NOTE: Read and le		-				
Chipset One of the following depending on model							

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

	Maximum ((RDIMM)	Capacity	512GB	(16 x 32GB	RDIMM @2	2400MHz)	
Memory Protection One of the following	Advanced	ECC			0	data correction to detect a vithin a single DRAM chip.	nd correct single
depending on model	Online spa	re		online spare r n to the spare		ts a rank that is degrading a	and switches
	Memory M Socket	irroring Inter-	in case o		a DIMM in	ores a copy of memory with a mirrored set is detected a IMM.	
Network Controller One of the following depending on model	HPE Etheri	net 1Gb 2-Por	† 361i Ad	apter			
Expansion Slots							
Primary Riser (Optional)	Expansio n Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCle 3.0	x8	x8		Full-height, full-length slot	
	2	PCIe 3.0	x8	x8		Full-height, half- length slot	
	3	PCIe 3.0	x8	x8		Full-height, half- length slot	
		s riser can be Width data i				lectrical lanes running to th	e connector.
Primary Riser (Optional)	Expansio n Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 3.0	x16	x16		Full-height full-length	

(Optional)	n Slots #	reennoiogy	Width	Width	Number		Hores
	1	PCle 3.0	x16	x16		Full-height, full-length slot	
	2	PCle 3.0	x8	x8		Full-height, half- length slot	

NOTE: This riser can be used with both CPU 1 and CPU 2

Riser with Flexible LOM	Expansio n Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
(Optional)	1	PCIe 3.0	x8	x8		Full-height, full-length slot	
	2	PCle 3.0	x8	x8		Full-height, half- length slot	
	3	Flexible LOM				Full-height, half- length slot	Can only be used for FlexibleLOMs

NOTE: This riser is mandatory for installing FlexibleLOMs & can be used only with CPU 1.

NOTE: When populating slots on second riser, a second processor must be installed. **NOTE:** One of the 3 risers has to be selected mandatorily.

Storage ControllerEntry ModelsOne of the following
depending onBase Modelsmodel

HPE Dynamic Smart Array B140i Controller HPE Dynamic Smart Array B140i Controller HPE H240 FIO Smart Host Bus Adapter

model

Standard Features

	Performance Models H NOTE: B140i provides 6Gb/s and supports R/ NOTE: H240 Provides 12Gb/s and supports R	AID 0, 1 & 5. support for up to 8 SAS/SATA dr RAID 0, 1 & 5.					
Internal Storage Devices		ptional: DVD-ROM, DVD-RW OTE: This option available with al	18SEE drive bay models only				
One of the following	Hard Drives	one ship standard	i diffe bay models only.				
depending on			27				
model		SFF drive bays total with Optical B					
	N	Optional: +8SFF drive bay (total of 16SFF drive bays) NOTE: The Optical Drive bay is not available with +8SFF drive bay optional upgrade.					
	8 LFF drive bays total without Optical Bay						
	12 LFF drive bays total without Optical Bay						
	Up to 4 Non-hot plug SATA 3.5" drives						
	NOTE: Optical drive is not supported on LFF Chassis.						
Maximum Internal		CAPACITY	CONFIGURATION				
Storage	Hot Plug SFF SAS	32TB	16x2TB				
One of the following	Hot Plug SFF SATA	32TB	16x2TB				
depending on model	Hot Plug LFF SAS	120TB	12x10TB				
model	Hot Plug LFF SATA	120TB	12x10TB				
	Hot Plug SFF SAS SSD	61.4TB	16x3.84TB				
	Hot Plug SFF SATA SS		16x3.84TB				
	Hot Plug LFF SATA SS		12x3.84TB				
	Non Hot Plug LFF SAT	А 32ТВ	8x4TB				
Power Supply One of the following depending on model	Server? HPE Entry-Lev redundant and non-rec The HPE 550W FIO Po	Power Supply ncy power solutions at an entry-lev el Power Supplies offer an optimize lundant power configurations.	el price for your ProLiant Gen9 Essential ed set of features with options for both D Plus power efficiency (up to 89%) with an urations.				
	power redundancy in P protection against pow option helps to reduce	roLiant servers that offer only a sin er loss. With an 80 Plus Gold power operating expenses while protectin	wer Backplane can be configured to support gle power supply bay, providing additional efficiency rating (up to 92%), this power g against trapped power capacity in the data serviceability with fast and easy deployment				
System Fans		Non-redundant	Redundant				
One of the following	1P model	2 fans	4 fans				
depending on		Non-redundant	Redundant				

	2P model	4 fans	5 fans				
	NOTE: Customers may separately purchase redundant fans with the 725571-B21 option kit.						
	NOTE: Additional fans (two) are also included in -B21 processor option kits when upgrading from						
	one processor to two processors.						
nterfaces	Video	1 (Vaux Support)					
	LOM Network Ports	2x1GbE ports					
	HPE iLO Remote Management Network Port	1 GbE (Optional)					
	USB	Up to 4 USB ports (standa Front: 1xUSB 2.0 std; (1xU release ears) Rear: 2xUSB 3.0 Internal: 1xUSB 3.0	rd); ISB3.0 optional upgrade with quick				
	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.						
	NOTE: 8LFF & 12LFF drive cage 3.0.	e models with Quick release l	atch rack ears supports front USB				
and Virtualization Software Support for ProLiant Servers	Support Matrix at: http://www.h	SLES) HPE's Certified and Supporte t listing of software drivers a p.com/go/ossupport and ou	available for your server, please visit our ur driver download page				
	http://h20566.www2.hpe.com/ Upgradeable to 2 processors (36 NOTE: Processor upgrade from 1	Cores)					
depending on model	105W.						
mouci	Up to 16 DIMM slots available						
	NOTE: To take advantage of DIMMs 9-16, a second processor must be installed. FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options						
	Optional 2 slot riser (x16, x8) NOTE: To take advantage of the additional 2 PCI slot upgrade, a second processor must be installed.						
	Redundant Power Supply						
	Redundant Fan						
	Optical Drive (8 SFF only)						
Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant						
	PXE Support						
	WOL Support						
	WOL Support Microsoft® Logo certifications USB 3.0 Support						
	Microsoft [®] Logo certifications						

		3 & A4 extended ambience. hnical specifications section for more details.			
Graphics	Integrated Matrox G200eH2 video standard • 1280 x 1024 (32 bpp) • 1920 x 1200 (16 bpp)				
HPE Server UEFI/Legacy ROM	and more secured co HPE ProLiant Gen9 Boot Mode. NOTE: The UEFI Sys	irmware Interface (UEFI) is an industry standard that provides better manageability onfiguration than the legacy ROM while interacting with your server at boot time. platform defaults to UEFI and can be factory or field configured for Legacy BIOS estem Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) more information, please visit http://www.hpe.com/servers/uefi.			
	 UEFI enables numerous new capabilities specific to HPE ProLiant servers such as: Secure Boot 				
	Operating system specific functionality				
	• Support for > 2.2 TB (using GPT) boot drives				
	USB 3.0 Stack				
	Embedded UEFI Shell				
	Mass Configuration Deployment Tool using RESTful API for iLO 4				
	PXE boot support for IPv6 networks				
	Boot support for option cards that only support a UEFI option ROM				
	Network Stack configurations				
	NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI. NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen9 Server.				
Form Factor One of the following depending on model		6 SFF Drive Bay Version: ht 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. Not available on ML10 Gen9. Learn more at http://www.hpe.com/info/ilo .			
	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <u>http://www.hpe.com/servers/uefi</u> .			
	RESTful API	RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi .			

	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning.
	Embedded Remote Support	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 <u>http://www.hpe.com/info/insightonline/explore</u> .
Server utilities	Smart Update	Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP) and smart components. Learn more at http://www.hpe.com/servers/smartupdatemanager.
	HPE Systems Insight Manager (HPE SIM)	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 .
	HPE Insight Online	HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty, Care Pack or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at http://www.hpe.com/info/insightonline/explore .
Security	Power-on password Serial interface contr Administrator's passw UEFI TPM 1.2 TPM 2.0 NOTE: TPM 1.2 is n	
Warranty		red by a global limited warranty and supported by HPE Services and a worldwide norized Channel Partners resellers. Hardware diagnostic support and repair is

available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

NOTE: Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/.

Optional Features

Embedded HPE iLO Essentials is the preferred license for small and medium business that **iLO** Essentials Management offers full remote server management capabilities for small and medium business via the Integrated Remote Console (IRC), virtual media, and e-mail based alerts. Learn more about HPE iLO Essentials at http://www.hpe.com/servers/iLO/essentials. iLO Scale-Out HPE iLO Scale-Out is the preferred license built for web hosting, cloud service providers, and high performance computing data centers, managing massive scale out environments for the DL 100 and 10 series servers, not available for ML servers. This license offers sophisticated scripting tools that provides remote access through Text Console via SSH, Dynamic power capping, Email-based Alerting and proactive notifications. For more information, visit http://www.hpe.com/servers/iLO/scale-out. iLO Advanced HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multiuser collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at http://www.hpe.com/servers/iloadvanced. Server **HPE Insight** HPE Insight Control, lets you deploy, migrate, monitor, remote control, and Management optimize your IT infrastructure through a single, simple management console. Control For more information, see http://www.hpe.com/info/insightcontrol. **Rack and Power** HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HPE Rack and Power infrastructure solutions - rack infrastructure, Infrastructure power protection and management, performance optimized data centers (PODs) - are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at HPE Rack and Power Infrastructure. High Performance HPE Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters Clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters. HPE Insight Cluster Management Utility (CMU) is a Hewlett Packard Enterprise licensed and supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective. http://www.hp.com/go/cmu. NOTE: High Performance Computing (HPC) interconnect technologies are available for this server as part of the HPE Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by Hewlett Packard Enterprise when integrated within a Hewlett Packard Enterprise cluster. Flexible, validated solutions can be defined with the help of configuration tools. http://www.hp.com/techservers/clusters/ucp/index.html

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

Optional Features

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:

http://www.hp.com/techservers/clusters/ucp/index.html

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

• Data Protection and Recovery Software

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

• Data Archive and Migration Software

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

• Storage Resource Management Software (SRM)

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

• Data Replication Software

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

• Storage Device Management Software

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

• HPE StoreVirtual VSA

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

NOTE: For more information about Storage Software including QuickSpecs, please see: http://www.hp.com/go/storage/software.

One Config SimpleSCE 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. https://h22174.www2.hp.com/SimplifiedConfig/Index.

Service and Support

HPE Support Services	HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support for need for your IT and business.
Connect your devices	Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77% ¹ reduction in down time, near 100% ² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support. 1-IDC 2 - HP CSC reports 2014 - 2015
Recommended Support	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. https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf
Parts and Materials	Hewlett Packard Enterprise will provide Hewlett Packard Enterprise-supported 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

Service and Support

	Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.
HPE Education Services	Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. http://www.hpe.com/ww/learn
HPE Support Center	The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers.
	Learn more http://www.hpe.com/support/hpesc
	The Hewlett Packard Enterprise Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.
	HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.
	*HPE Support Center Mobile App is subject to local availability.
	For more information: http://www.hpe.com/services

Pre-configured Models

	Entry Me	odels	Base	Models			
[SKU Number]	833970-B21	833971-B21	833972-B21	833973-B21			
Model Name	HPE ProLiant DL180 Gen9HPE ProLiant DL1E5-2603v4 8GB-R B140iGen9 E5-2603v4LFF NHP 550W PS Entry8GB-R B140i 8LIServer550W PS Entry Se		Gen9 E5-2609v4 8GB-R Gen9 E5-2609v4 H240 8LFF 550W PS H240 8SFF 55				
Processor	Intel® Xeon® E	5-2603v4	Intel® Xeon®	⁹ E5-2609v4			
Number of Processors			One				
Memory	8GB (1x8GB Registered NOTE: Due to processor I DIMMs will operate at 18	imitation, these DDR4	NOTE: Due to processo	ed DIMMs, 2400 MHz) r limitation, these DDR4 .866 MHz in this model.			
Network Controller	HF	PE Embedded Dual Port 3	361i Adapter Network Interfa	ace			
Storage Controller	HPE Dynamic Sma		HPE H240 FIO Sma	rt Host Bus Adapter			
Hard Drive	None ship s	tandard	None ship	o standard			
Internal Storage	4 LFF HDD Bays (Non Hot Plug)	8 LFF HDD Bays	8 LFF HDD Bays	8 SFF HDD Bays			
Optical Drive Bay		Not Available		1; (Optional: DVD-ROM, DVD-RW)			
Optical Drive	None						
PCI-Express Slots		3 Standard (1	-FL/FH, 2-FH/HL)				
Power Supply		(1) HPE 550W	FIO Power Supply				
Fans		2 hot swap far	ns, non-redundant				
Management	iLO Management (standa	Aanagement (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-ou (optional only for DL), iLO Advanced (optional)					
Form Factor		Rack (2U), HP	E Easy Install Rails				
Warranty	Server Warranty includes 3-		, 1-Year Onsite support with	next business day response.			
			torage Models				
[SKU Number]			833974-B21				
Model Name	HPE Pro	HPE ProLiant DL180 Gen9 E5-2623v4 16GB-R P840 12LFF 900W PS Server					
Processor Number of Proc		Intel® Xeon® E5-2623v4					
Memory		One 16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 2133 MHz in this model					
Network Contro	oller	HPE Embedded Dual Port 361i Adapter Network Interface					
Storage Contro	ller						
Hard Drive		Nor	ne ship standard				
Internal Storag	e	12	LFF HDD Bays				
Optical Drive B	ay		Not Available				
PCI-Express Slo	ots	3 Standar	d (1-FL/FH, 2-FH/HL)				
Power Supply		(1) HPE 900V	V Redundant Power Supply				
Fans		4 hot p	olug fans, redundant				

Pre-configured Models

Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-
	out (optional only for DL), iLO Advanced (optional)
Form Factor	Rack (2U), HPE Easy Install Rails
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

Country Code Key xx1 = B21

Worldwide

NOTE: The -B21 WW 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)

[Chassis]	HPE ProLiant DL180 Gen9 Non-hot Plug LFF	HPE ProLiant DL180 Gen9 Hot Plug 8LFF	HPE ProLiant DL180 Gen9 Hot Plug 8SFF	HPE ProLiant DL180 Gen9 Hot Plug 12LFF	
	Configure-to-order Server	Configure-to-order Server	Configure-to-order Server	Configure-to-order Server	
SKU Number	754525-B21	754524-B21	754523-B21	775506-B21	
Processor		2 (optional) x HPE Smart Socket Guide			
DIMM Slots	16 DIMM slots for RDIMM, LRDIMM DDR4 Memory				
Storage Controller	HPE Dynamic Smart Array B140i				
PCle	3 PCIe slots (+3 PCI slots available with upgrade option, second processor required)				
Drive Cage	4LFF or 8LFF Non Hot Plug	8LFF Hot Plug (+4LFF optional field upgradable)	8SFF Hot Plug (+8SFF Optional)	12LFF Hot Plug	
Network	HPE Ethernet 1Gb 2-port i350 Adapter				
Controller					
Fans	2 hot swap fans, non-redundant				
Management	ilon	iLO Management (standard), Intelligent Provisioning (standard)			
USB	1 front, 1 internal, 2 rear				
Ears	Optional	HPE Quick Release Ears	HPE Thumbscrew Ears	HPE Quick Release Ears	

NOTE: HPE ProLiant DL180 Gen9 Non-hot plug chassis (P/N- 754525-B21) supports both 4LFF and 8LFF configurations. **NOTE:** Thumb screw ears are not supported on Hot Plug LFF Chassis.

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

HPE Processors

Select one or two processors from Core Options-Processor section below,

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

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

HPE Memory

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

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

Configuration Information - Factory Integrated Models

	 HPE memory options from previous generation servers are not qualified or warranted with Hewlett Packard Enterprise Gen9 systems. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9. If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available.
	• Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: <u>http://www.hpe.com/go/ddr4config</u> .
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/go/hppoweradvisor. By RPS Enablement Kit power options, mixing of power supplies in the same RPS enablement kit is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

Step 3: Choose Additional Factory Integratable Options

HPE Unique Options	Select one or more Unique options from Core Options section below.
	 This section may contain FIO options, please see the Unique options section below. FIO indicates that this option is only available as a factory installable option.
HPE 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 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>.
	Calculated a NIC advices Cons Contract National inclusion hade

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

Configuration Information - Factory Integrated Models

	 Please see the QuickSpecs for Technical Specifications and additional information: <u>http://www.hpe.com/go/ProLiantNICs</u>. 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 Options	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/go/hpepoweradvisor</u>.
	• This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.
HPE Cooling Options	Select one or more Fan Kits from Core Options section below.
	 This section may contain FIO options, please see HPE Cooling Options section below. FIO indicates that this option is only available as a factory installable option.
HPE Storage Controllers	Select one or more Storage options from Additional Options section below.
	 The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22. This section may contain FIO options, please see HPE Storage Controllers section below. FIO indicates that this option is only available as a factory installable option.
HPE I/O Expansion Options	Select one or more Riser Kit options from Core Options section below.
	 To take advantage of the additional PCI slot upgrade, the second processor must be installed. This section may contain FIO options, please see HPE I/O Expansion Options section below. FIO indicates that this option is only available as a factory installable option.
HPE 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

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.

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.

information.		
HPE Unique	HP DL180 Gen9 Dedicated iLO Management Port Kit	725581-B21
Options	HP DL180 Gen9 8SFF Hard Drive Cage/Backplane Kit	725572-B21
	HP DL180 Gen9 12LFF Hot Plug Enablement Kit	725574-B21
	NOTE: This can be used only with 8LFF Hot Plug Chassis and contains the	
	controller cables required for upgrade.	
	HP DL180 Gen9 3 Slot x8 PCI-E Riser Kit	725569-B21
	HP DL180 Gen9 x16 PCI-E Riser Kit	725570-B21
	HP Quick-release Latch Rack Ears FIO Kit	725579-B21
	NOTE: This option kit is required for Security Bezel. This option also provides	120011 021
	one front USB 3.0 upgrade.	
	HP AHCI-Enable FIO Setting	801845-B21
	NOTE: This needs to be selected when Advanced Host Controller Interface	001010 021
	mode is required with B140i controller.	
HPE Processors	E5-2600v4 series Processors	
	HPE DL180 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W)	801240-B21
	Processor Kit	
	HPE DL180 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO	801240-L21
	Processor Kit	
	HPE DL180 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W)	801241-B21
	Processor Kit	
	HPE DL180 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO	801241-L21
	Processor Kit	
	HPE DL180 Gen9 Intel [®] Xeon [®] E5-2650Lv4 (1.7GHz/14-core/35MB/65W)	801243-B21
	Processor Kit	
	HPE DL180 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO	801243-L21
	Processor Kit	004077 004
	HPE DL180 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit	801244-B21
	HPE DL180 Gen9 Intel [®] Xeon [®] E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO	801244-L21
	Processor Kit	001244-L21
	HPE DL180 Gen9 Intel [®] Xeon [®] E5-2620v4 (2.1GHz/8-core/20MB/85W)	801239-B21
	Processor Kit	001237 021
	HPE DL180 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO	801239-L21
	Processor Kit	001207 222
	HPE DL180 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W)	801249-B21
	Processor Kit	
	HPE DL180 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO	801249-L21
	Processor Kit	
	HPE DL180 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W)	801235-B21
	Processor Kit	
	HPE DL180 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO	801235-L21
	Processor Kit	
	HPE DL180 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W)	801236-B21
	Processor Kit	
	HPE DL180 Gen9 Intel [®] Xeon [®] E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO	801236-L21
	Processor Kit	

QuickSpecs

Core Options

HPE DL180 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit	801237-B21
HPE DL180 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	801237-L21
HPE DL180 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit	825506-B21
HPE DL180 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit	825506-L21
HPE DL180 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Processor Kit	825510-B21
HPE DL180 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor Kit	825510-L21
HPE DL180 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit	825512-B21
HPE DL180 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit	825512-L21
HPE DL180 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	801238-B21
HPE DL180 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	801238-L21
E5-2600v3 series Processors	
HP DL180 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	733925-B21
HP DL180 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	733929-B21
HP DL180 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	733916-B21
HP DL180 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	733918-B21
HP DL180 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	733921-B21
HP DL180 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit	733921-L21
HP DL180 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	763226-B21
HP DL180 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	779830-B21
HP DL180 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	733912-B21
HP DL180 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	733914-B21
HP DL180 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	763222-B21
NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported for processor Please refer to DL180 Gen9 User Guide for more details.	ors up to 105W.

Memory Selection

To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends memory from the list located here: <u>http://www.hpe.com/products/recommend</u>. Best product availability is limited to US, Canada, and Latin America at this time.

HPE Memory	Registered DIMMs (RDIMMs) for E5-2600v4 Series	
·····,	HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory	805347-B21
	Kit	
	HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
	HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
	NOTE: These DIMMs can only be used with E5-2600v4 processors.	
	Registered DIMMs (RDIMMs) for E5-2600v3 Series	
	HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
	HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
	NOTE: These DIMMs can only be used with E5-2600v3 processors.	
	Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series	
	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
	HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B21
	NOTE: These DIMMs can only be used with E5-2600v4 processors.	
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21
	HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21
	HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726724-B21
	NOTE: These DIMMs can only be used with E5-2600v3 processors.	
	HPE Standard Memory for E5-2600v4 Series	
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard Memory Kit	851353-B21
	NOTE: These DIMMs can only be used with E5-2600v4 processors.	
	HPE Standard Memory for E5-2600v3 Series	
	HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803026-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803028-B21
	NOTE: These DIMMs can only be used with E5-2600v3 processors.	
HPE Optical Drive	s HP DL180 Gen9 Optical Disk Drive Enablement Kit	725582-B21
	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21

HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive

	HP Mobile USB Non Leaded System DVD RW Drive NOTE: Optical drive is not supported on LFF models.	701498-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
	HPE 1.2TB SAS 10K SFF SC DS HDD	872479-B21
	HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21
	HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785069-B21
	HPE 600GB SAS 10K SFF SC DS HDD	872477-B21
	HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
	HPE 300GB SAS 10K SFF SC DS HDD	872475-B21
	HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
	HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
	HPE 900GB SAS 15K SFF SC DS HDD	870759-B21
	HPE 600GB SAS 15K SFF SC DS HDD	870757-B21
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
	HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
	HPE 300GB SAS 15K SFF SC DS HDD	870753-B21
	HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
	SAS Hot Plug SFF (2.5-inch) Enterprise 512e Drives	
	HPE 1.8TB SAS 10K SFF SC 512e DS HDD	872481-B21
	HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
	HPE 900GB SAS 15K SFF SC 512e DS HDD	870765-B21
	HPE 600GB SAS 15K SFF SC 512e DS HDD	870763-B21
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive	748387-B21
	SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
	HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21
	SAS Hot Plug SFF (2.5-inch) Midline 512e Drives	
	HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
	HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
	SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
	HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
	HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
	HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
	SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
	HPE 6TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846514-B21
	HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21

HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846528-B21
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21
HPE 1TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846524-B21
SAS Hot Plug LFF (3.5-inch) Midline 512e Drives	
HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819201-B21
HPE 6TB SAS 7.2K LFF SC 512e DS HDD	861754-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
SAS Hot Plug LFF (3.5-inch) 512e Performance Drives	
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793671-B21
HPE 4TB SAS 7.2K LFF SC 512e DS HDD	861756-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
SAS Hot Plug LFF (3.5-inch) Midline 512e Helium Drives	
HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	857644-B21
HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	861590-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
SATA Hot Plug SFF (2.5-inch) Midline 512e Drives	
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
HP 21B 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21 765453-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	765453-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	765453-B21 846510-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	765453-B21 846510-B21 861678-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	765453-B21 846510-B21 861678-B21 861693-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	765453-B21 846510-B21 861678-B21 861693-B21 861676-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	765453-B21 846510-B21 861678-B21 861693-B21 861676-B21 861691-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	765453-B21 846510-B21 861678-B21 861693-B21 861676-B21 861691-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	765453-B21 846510-B21 861678-B21 861693-B21 861676-B21 861691-B21 658071-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) S12e SC Midline 1yr Warranty Hard Drive	765453-B21 846510-B21 861678-B21 861693-B21 861676-B21 861691-B21 658071-B21 819203-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive HPE 6TB SATA 7.2K LFF SC 512e DS HDD HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive HPE 4TB SATA 7.2K LFF SC 512e DS HDD	765453-B21 846510-B21 861678-B21 861693-B21 861676-B21 861691-B21 658071-B21 819203-B21 861750-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) S12e SC Midline 1yr Warranty Hard Drive HPE 6TB SATA 7.2K LFF SC 512e DS HDD HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765453-B21 846510-B21 861678-B21 861693-B21 861676-B21 861691-B21 658071-B21 819203-B21 861750-B21 765255-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive HPE 6TB SATA 7.2K LFF SC 512e DS HDD HP 6TB 6G SATA 7.2K LFF SC 512e DS HDD HPE 4TB SATA 7.2K LFF SC 512e DS HDD HPE 4TB SATA 7.2K LFF SC 512e DS HDD HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard	765453-B21 846510-B21 861678-B21 861693-B21 861676-B21 861691-B21 658071-B21 819203-B21 861750-B21 765255-B21 861752-B21

QuickSpecs

HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
SATA Hot Plug LFF (3.5-inch) Midline 512e Helium Drives	
HPE 10TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	857648-B21
HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	861594-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659341-B21
SATA Non-hot Plug LFF 7.2K (3.5-inch) Standard Drives	
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801888-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801884-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801882-B21
SSD Selection	
To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located here: http://www.hpe.com/products/recommend .	
Best product availability is limited to US, Canada, and Latin America at this time.	
To further assist with configuration, HPE also offers an SSD Selector Tool located here: http://ssd.hpe.com .	
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779176-B21
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779172-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779168-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779164-B21
HPE 1.6TB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846432-B21
HPE 800GB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846430-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
12G SAS Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	
	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21 762261-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	762261-B21 816576-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive HPE 1.92TB 12G SAS RI-3 SFF SC SSD	762261-B21 816576-B21 816572-B21

HPE 480GB 12G SAS RI-3 SFF SC SSD	816562-B21
12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.2TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822567-B21
HPE 1.6TB 12G SAS MU-3 SFF SC SSD	822563-B21
HPE 1.6TB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846436-B21
HPE 800GB 12G SAS MU-3 SFF SC SSD	822559-B21
HPE 800GB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846434-B21
HPE 400GB 12G SAS MU-3 SFF SC SSD	822555-B21
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HPE 1.6TB SATA 6G WI SFF SC DS SSD	872363-B21
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
HPE 800GB SATA 6G WI SFF SC DS SSD	872359-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HPE 400GB SATA 6G WI SFF SC DS SSD	872355-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
5G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816929-B21
HPE 1.92TB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871770-B21
HPE 1.6TB SATA 6G RI SFF SC DS SSD	869386-B21
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HPE 960GB SATA 6G RI SFF SC DS SSD	869384-B21
HPE 960GB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871768-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HPE 480GB SATA 6G RI SFF SC DS SSD	869378-B21
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HPE 240GB SATA 6G RI SFF SC DS SSD	869376-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HPE 150GB SATA 6G RI SFF SC DS SSD	869374-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804575-B21
bG SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HPE 1.92TB SATA 6G MU SFF SC DS SSD	872352-B21
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HPE 960GB SATA 6G MU SFF SC DS SSD	872348-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HPE 480GB SATA 6G MU SFF SC DS SSD	872344-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	

HPE Networking

HPE 1.6TB SATA 6G WI LFF SCC DS SSD	872365-B21
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B21
HPE 800GB SATA 6G WI LFF SCC DS SSD	872361-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HPE 400GB SATA 6G WI LFF SCC DS SSD	872357-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816933-B21
HPE 1.6TB SATA 6G RI LFF SCC DS SSD	869388-B21
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HPE 480GB SATA 6G RI LFF SCC DS SSD	869380-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
6G SATA Hot Plug LFF (3.5-inch) SC Converter Mixed Use Solid State Drives	
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804634-B21
HPE 960GB SATA 6G MU LFF SCC DS SSD	872350-B21
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
HPE 480GB SATA 6G MU LFF SCC DS SSD	872346-B21
HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	832417-B21
HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
M.2 SSD	
HPE 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835563-B21
HPE Dual 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835565-B21
HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	788028-B21
HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	777894-B21
NOTE: M.2 drives go in PCIe slot and use B140i SATA controller only.	
Hard Drive Blank Kits	
HP Large Form Factor Hard Drive Blank Kit	666986-B21
HP Small Form Factor Hard Drive Blank Kit	666987-B21
Hard Drive Kits	
HP DL180 Gen9 8SFF Hard Drive Cage/Backplane Kit	725572-B21
HP DL180 Gen9 12LFF Hot Plug Enablement Kit	725574-B21
1 Gigabit Ethernet adapters	
HP Ethernet 1Gb 4-port 331T Adapter	647594-B21

HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
HP Ethernet 1Gb 4-port 366T Adapter	811546-B21

HPE ProLiant DL180 Generation9 (Gen9)

	10 Circhit Ethornot adaptare	
	10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.	727033 621
	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	
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
	HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
	HPE FlexFabric 10Gb 2-port 556FLR-T Adapter	794525-B21
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
HPE InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
HPE I/O Expansion	HP DL180 Gen9 3 Slot x8 PCI-E Riser Kit	725569-B21
Options	HP DL180 Gen9 x16 PCI-E Riser Kit	725570-B21
	HP DL180 Gen9 FlexibleLOM Enablement Kit NOTE: This Enablement Kit is required when FlexibleLOM is selected.	780965-B21
HPE Power	HPE ProLiant Gen9 Essential Server Power Supplies - Non-Redundant	
Supplies	HPE 550W Standard FIO Power Supply Kit	730941-B21
	NOTE: This is a Factory Installed Option (FIO) only.	
	NOTE: Supports Silver-level efficiency (89%) with a standard C14 inlet connector. No support for HPE Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers.	
	HPE ProLiant Gen9 Essential Server Power Supplies - Redundant	
	HPE 900W Standard AC 240VDC Power Input Module FIO Kit NOTE: This is a Factory Installed Option (FIO) only.	828734-B21
	NOTE: NUX Packalana is mandatory to be chosen with this newer input module	
	NOTE: RPS Backplane is mandatory to be chosen with this power input module. HPE 900W Standard AC 240VDC RPS Power Backplane FIO Kit	828735-B21

	NOTE: This is a Factory Installed Option (FIO) only. NOTE: This RPS backplane is mandatory to be chosen along with 900W RPS	
	input module. HPE 900W Standard AC 240VDC Power Input Module NOTE: This part number can only be bought standalone and is for field integration only.	775595-B21
	 NOTE: RPS Backplane is mandatorily needed with this power input 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.	820792-B21
	NOTE: This Power supply supports both 100-240V AC and 240V DC. NOTE: Supports Gold-level efficiency (92%) with a standard C14 inlet connector. N Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essentia NOTE: HPE 900W Gold (Redundant) AC 240VDC Power Input Module (775595-B must be used with Power Backplane (814835-B21/828735-B21). NOTE: Each Redundant Power Supply Backplane can support up to two (2) power NOTE: Redundant AC Power Input Modules do not share power. Redundant AC Po the primary AC Power Input Module. Redundant AC Power Input Module #2 is the Module.	al servers. 21/ 828734-B21) input modules. wer Input Module #1 is
HPE Computation and Graphics Accelerators	HP NVIDIA Quadro K2200 Graphics Accelerator HP DL180 Gen9 Graphic Card Adapter Kit NOTE: Must select 2 processors if 2 graphic cards are selected. NOTE: Must select 900W non-redundant power supply when 2 graphic cards are s NOTE: Only the above listed Graphics cards are HPE standard supported options i NOTE: The NVIDIA Quadro modules are supported only on 64-bit versions of Linu operating systems as well as on Virtual Machine client operating systems. The supp operating systems are RHEL6, SLES 11 and Windows Server 2012 R2. NOTE: Please see the HPE Power Advisor for estimated power consumption of you configuration prior to installing GPUs. The HPE Power Advisor is located at: http://www.hp.com/go/hppoweradvisor.	n this server. x and Windows ported bare metal
HPE Cooling Options	HP DL180 Gen9 Redundant Fan FIO Kit NOTE: Upgrades a non-redundant server with one additional hot-plug fan (FIO only).	779841-B21
	HP DL180 Gen9 Redundant Fan Kit NOTE: Customers can upgrade to a redundant fan configuration with the purchase of above option kit (contains 2 Fans).	725571-B21

Software

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 Software	HPE Insight Control HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server	C6N27A
Sonware	LTU	CONZ/A
	HPE Insight Control including 1yr 24x7 TSU E-LTU	C6N28ABE
	HPE Insight Management Media Kit	C6N31A
	HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU	C6N36A
	NOTE: FIO indicates that this option is only available as a factory installable option.	
	HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO E-LTU NOTE: FIO indicates that this option is only available as a factory installable	C6N36ABE
	option.	
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple activation key.	
	NOTE: Customer will receive a license entitlement certificate. The license entitlemeredeemed online or via fax in order to obtain the license activation key(s). Includes Software Technical Support and Update Service.	
	NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be order be downloaded at: http://www.hp.com/go/insightupdates .	ered separately, or can
	NOTE: For additional license options please see the QuickSpecs at:	
	https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123391	
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 HPE iLO Essentials	E6U64ABE
	HPE ILO Essentials HPE ILO Essentials including 3yr 24x7 Tech Support and Updates 1-server LTU	BD774A
	HPE iLO Essentials including 1/2 24x7 Tech Support and Updates 1-server LTU	BD775A
	HPE iLO Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE
	HPE iLO Essentials including 1yr 24x7 Technical Support and Updates E-LTU HPE iLO Scale-out	E6U62ABE
	HPE ILO Scale-Out HPE ILO Scale-Out 3yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD776A
	HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Flex Qty E- LTU	BD776AAE
	HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Tracking LTU	BD777A
	HPE iLO Scale-Out 1yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD778A
	HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E- LTU	BD778AAE
	HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Tracking LTU	BD779A
HPE Converged	HPE OneView Advanced (with HPE iLO Advanced)	
Infrastructure	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
Management Software	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE

	HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
	HPE OneView Physical Media Kit LTU 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	E5Y37A
	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: <u>http://www.hp.com/go/oneview</u> . NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	
	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 Track 1-server LTU	P8B25A
	HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B26AAE P8B31A
	HPE Cluster Management Utility	
Clusters	HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU	QL803B
	HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU	BD476A
	HPE Insight Cluster Management Utility Media	BD477A
	NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node	
	(server). Customer will receive a printed end user license agreement and license	
	entitlement certificate via physical shipment. The license entitlement certificate	
	must be redeemed online in order to obtain a license key. Customer also will receive a support agreement.	
	NOTE: For additional license kits please see the HPE Insight Cluster <u>Management Utility QuickSpecs</u>	
HPE PCIe	Value Endurance (VE) PCIe Workload Accelerators	
Workload	HPE 6.4TB Read Intensive-2 FH/HL PCIe Workload Accelerator	831739-B21
Accelerator	HPE 3.2TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831737-B21
Options	HPE 1.6TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831735-B21
	HPE 1.3TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831733-B21
	Light Endurance (LE) PCIe Workload Accelerators	
	HPE 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21 775670-B21
	HPE 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HPE 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775668-B21
	HPE 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775666-B21
	NOTE: Please see the HPE PCIe Workload Accelerators for ProLiant Servers Quic	
	for Technical Specifications and additional information.	
HPE Security	HP 2U Security Bezel Kit	666988-B21
	NOTE: Quick Release Ear option kit (P/N 725579-B21) is required for installing security bezel.	
	HP DL180 Gen9 Thumbscrew Ear FIO Kit	782641-B21
	NOTE: Thumbscrew ears are available on SFF models only.	
	HP Quick-release Latch Rack Ears FIO Kit	725579-B21

	NOTE: Quick-release Latch ears are available on both SFF and LFF models. For	
	12LFF Models Quick Release Ears are Mandatory.	
	NOTE: Quick-release latch ears upgrades front USB from USB 2.0 to USB 3.0- It	
	also supports Security Bezel Kit.	
	HP Trusted Platform Module 2.0 Kit	745823-B21
	NOTE: HPE Trusted Platform Module 2.0 Option works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8	
	servers or earlier generation variants.	
	NOTE: HPE Gen9 servers purchased earlier may need the latest firmware	
	update to be compatible with the TPM 2.0 Option.	
	NOTE: HPE server systems can have a TPM module (of any type) installed only	
	once. It cannot be replaced with any other TPM module.	
	HP Trusted Platform Module Option	488069-B21
	NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2	
	version. Compatible server platforms include Gen8 and Gen9 servers.	
	NOTE: HPE server systems can have a TPM module (of any type) installed only	
	once. It cannot be replaced with any other TPM module.	
HPE Storage	SAS Controllers	
Controllers	HPE Smart Array Controllers	
	HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	820834-B21
	NOTE: Includes the HPE Smart Storage Battery.	
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21
	NOTE: Includes the HPE Smart Storage Battery.	
	HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726897-B21
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller	761874-B21
	NOTE: Includes the HPE Smart Storage Battery.	70/007 001
	HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21
	HPE Smart Host Bus Adapters	70/007 001
	HP H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
	HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter	761873-B21 726911-B21
	HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	1204TT-DST
	HPE Cable Options	725577-B21
	HP DL180 Gen9 8LFF Smart Array Cable Kit HP DL180 Gen9 8SFF Smart Array Cable Kit	725577-B21 725578-B21
	HP DL180 Gen9 8LFF Hot Plug FIO Cable Kit	774868-B21
	HP DL180 Gen9 8LFF Non-hot Plug FIO Cable Kit	774869-B21
	HP DL180 Gen9 8SFF Hot Plug FIO Cable Kit	774870-B21
	HP DL180 Gen9 4LFF Non-hot Plug FIO Cable Kit	776447-B21
	NOTE: One of the above cables is required to be selected depending on the combined of the above cables is required to be selected depending on the combined of the selected depending on the selected depending depe	
	and storage controller. Cable option kit descriptions include the right chassis and s	
	controllers names.	
	NOTE: FIO indicates that this option is only available as a factory installable option	. Please select
	FIO option if you want the option to be factory installed.	
	Optional Software	
	HPE SmartCache No Media 24x7 Technical Support 1-server LTU	D7S26A
	HPE SmartCache No Media 24x7 Technical Support Flexible LTU	D7S27A
	HPE SmartCache No Media 24x7 Technical Support E-LTU	D7S27AAE

	NOTE: HPE SmartCache is supported when one of the supported Smart	
	Array Controllers is installed in the server.	
	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.	727230-DZI
	One server can accommodate only 1 Smart Storage Battery that would suffice	
	the requirement of all HPE Smart Array controllers.	
PE Tape Backup		
РЕ Таре Баскир	NOTE: For the complete range of tape drives, autoloaders, libraries and media se <u>http://www.hp.com/go/tape</u> . For hardware and software compatibility of HPE ta	
	http://www.hp.com/storage/SPOCK and http://www.hp.com/go/ebs.	ape backup products se
	NOTE: For Internal drives to be connected to DL servers please make sure that y	ou order rack mount ki
	as well.	
	Tape Drives	
	SAS Rack-Mount Tape Solutions	
	HPE StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
	HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit	COL99A
	HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
	HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit	EJ014B
	HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 10 Rack Mount Kit	EH958B
	HPE StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
	HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
	HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
	HPE StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
	HPE StoreEver 1U SAS Rack Mount Kit	AE459B
	HPE StoreEver LTO-7 Ultrium 15000 Internal Tape Drive	BB873A
	HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
	HPE DAT Autoloader	
	HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
	HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 FC Tape Autoloader	N7P34A
	HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 SAS Tape Autoloader	N7P35A
	HPE 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
PE Disk Backup	HPE RDX Removable Disk Backup System	
•	HPE D3700 Enclosure	QW967A
	HPE D3600 Enclosure	QW968A
	HP RDX+ 500GB External Backup System	B7B66B
	HP RDX+ 1TB External Backup System	B7B69B
	HPE RDX+ External Docking System	C8S07B
	HP RDX 2TB USB3.0 External Disk Backup System	E7X53B
	HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A
	HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A
	LIDE StoreOnce 7100 RTD System	

HPE StoreOnce 3100 8TB System

BB913A

	HPE StoreOnce 3520 12TB System	BB922A
	HPE StoreOnce 3540 24TB System	BB914A
	HPE StoreOnce 5100 48TB System	BB915A
HPE Storage	Emulex Fibre Channel HBAs	
Options	HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
	HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A
	HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A
	QLogic Fibre Channel HBAs	
	HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
	HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
	Converged Network Adapter	
	HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
	HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
	HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
HPE Disk Storage	Disk Enclosures	
Systems	HP D6000 Dual I/O Module Disk Enclosure	QQ695A
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W30A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
	HPE D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A
	HPE D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	MOT59A
HPE Data Center	HPE Advanced Series Racks	
Racks	HPE 11648 1075mm Pallet Universal Rack	H6J87A
	HPE 11648 1075mm Shock Universal Rack	H6J88A
	HPE 11642 1075mm Pallet Universal Rack	H6J65A
	HPE 11642 1075mm Shock Universal Rack	H6J66A
	HPE 11642 1200mm Pallet Universal Rack	H6J67A
	HPE 11642 1200mm Shock Universal Rack	H6J68A
	HPE 11636 1075mm Pallet Universal Rack	H6J77A
	HPE 11636 1075mm Shock Universal Rack	H6J78A
	HPE 11622 G2 1075mm Pallet Universal Rack	H6J83A
	HPE 11622 G2 1075mm Shock Universal Rack	H6J84A
	HPE 11614 1075mm Shock Universal Rack	H6J82A
	NOTE: Please see the <u>HPE Advanced Series Racks QuickSpecs</u> for information	ΠΟJδΖΑ
	on additional racks options and rack specifications.	
	HPE Enterprise Series Racks	
		Pac

	HPE 647 1075mm Pallet Intelligent Series Rack HPE 647 1075mm Shock Intelligent Series Rack HPE 647 1200mm Pallet Intelligent Series Rack HPE 647 1200mm Shock Intelligent Series Rack HPE 642 1075mm Pallet Intelligent Series Rack HPE 642 1075mm Shock Intelligent Series Rack HPE 642 1200mm Pallet Intelligent Series Rack HPE 642 1200mm Shock Intelligent Series Rack HPE 636 1075mm Pallet Intelligent Series Rack HPE 636 1075mm Shock Intelligent Series Rack HPE 842 1075mm Shock Intelligent Series Rack HPE 842 1075mm Shock Intelligent Series Rack HDE 842 1075mm Shock Intelligent Series Rack	BW911A BW912A BW913A BW914A BW903A BW904A BW907A BW908A BW908A BW895A BW896A BW896A BW917A BW918A
	 HPE Standard Series Rack HPE V142 1075mm deep Pallet 100 series Rack NOTE: Please see the <u>HPE Standard Series Racks QuickSpecs</u> for information on additional racks options and rack specifications. 	AF046A
HPE Power Distribution Units (PDUs)	 HPE Basic Power Distribution Units (PDU) HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU HPE Basic 7.3kVA/60309 3-wire 32A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU HPE Basic 11kVA/60309 63A 3-wire 48A/230V Outlets (30) C13 (6) C19/Vertical INTL PDU 	H5M54A H5M55A H5M56A H5M57A H5M68A H5M61A H5M59A H5M70A H5M60A H5M60A
	HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5- 20R/Vertical NA/JP PDU HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6) C19/Vertical INTL PDU HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	H5M75A H5M63A H5M64A H5M62A H5M72A H5M73A H5M67A

HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU	252663-D71
HPE Basic Modular 4.9kVA/L6-30P 24A/208V Outlets (4) C19/Horizontal NA/JP Core Only PDU	252663-D74
HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4) C19/Horizontal NA/JP PDU	252663-D75
HPE Basic Modular 7.3kVA/60309 3-wire 32A/230V Outlets (4) C19/Horizontal	252663-B33
INTL Core Only PDU HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4)	252663-B34
C19/Horizontal INTL PDU HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal	AF512A
NA/JP PDU HPE Basic Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6)	AF513A
C19/Horizontal INTL PDU HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6)	AF519A
C19/Horizontal NA/JP PDU HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6)	AF511A
C19/Horizontal NA/JP PDU HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6)	AF518A
C19/Horizontal INTL PDU HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs	
for information on additional options and product specifications.	
HPE Metered Power Distribution Units (PDU)	
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A
HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU	G9Z06A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	D9N48A
HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU	D9N51A
HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU	D9N53A
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13 (3) C19/Vertical INTL PDU	D9N55A
HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlet (32) C13 (4) C19/Vertical INTL PDU	D9N50A
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 for 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 PDU	AF520A
HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF521A
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF522A
HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU	AF523A
HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU	AF901A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF525A
HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF526A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF527A
HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C19/Horizontal INTL PDU	AF538A
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

HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 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) (<u>uickSpecs</u>
for information on additional options and product specifications.	
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) we	eb page.

HPE Rack Mount Consoles, KVM Switches, and Keyboards	HPE Location Discovery Services HPE Location Discovery Services LCD8500 Kit NOTE: Please see the <u>HPE Location Discovery Services QuickSpecs</u> for information on additional options and product specifications.	TL052A
	HPE Rack Mount Consoles	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	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
	HP KVM Console USB Interface Adapter	AF628A
	HPE KVM Console USB 8-pack Interface Adapter	AF655A
	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 HP 1x4 USB/PS2 KVM Console Switch HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software NOTE: To learn more, please visit the HPE KVM Switches web page .	AF629A AF611A AF620A AF621A AF622A
HPE USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
Rail Kits	
HP 2U Small Form Factor Easy Install Rail Kit	733660-B21
NOTE: This applies for both LFF & SFF models and it does not include ca	ble
management arm.	
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
HP ConvergedSystem Door Branding Kit	TK815A
HP ConvergedSystem Rack Light Kit	TK816A
HP ConvergedSystem Rack Side Panel 1075mm Kit	TK817A

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 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A

HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309	D9Q02A
Input/Output Module	
HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484A
NOTE: All Input/Output Modules support dual output outlets except the AF484A.	
Battery Pack Options	
HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HPE WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System	
for information on additional options and product specifications.	<u></u>
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/Tower UPS	
HPE R/T2200 G4 UPS Models	
HPE R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
HPE DirectFlow UPS Management Card	AF493A
HPE R/T3000 G4 UPS Models	
HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
HPE R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
R1500 G4 Models	
HPE R1500 G4 NA Uninterruptible Power System	J2Q99A
HPE R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
HPE R1500 G4 INTL Uninterruptible Power System	J2R03A
R7000 Uninterruptible Power System (UPS)	
HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
HPE R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
R5000 Uninterruptible Power System (UPS)	
HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
HPE UPS Options	
HPE R/T2200 G4 Extended Runtime Module	J2R09A
HPE R/T3000 G4 Extended Runtime Module	J2R10A
HPE 2U Rack/Tower UPS Shipping Kit	L4Q11A
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) w	veb page.

HPE USB and SDHPE Flash Media Kits for USB DrivesOptionsHPE 32GB microSD Mainstream Flash N

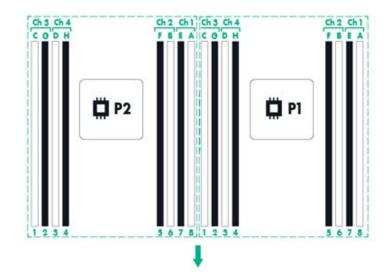
าร	HPE 32GB microSD Mainstream Flash Media Kit	700139-B21
	HPE 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21

HP 8GB USB EM Flash Media Kit

737953-B21

HPE Support Services	Foundation Care HPE 3 year Foundation Care 24x7 DL180 Gen9 Service HPE 3 year Foundation Care 24x7 wDMR DL180 Gen9 Service HPE 3 year Foundation Care 24x7 wCDMR DL180 Gen9 Service Proactive Care HPE 3 year Proactive Care 24x7 DL180 Gen9 Service	U7AT3E U7AT4E U7AT5E U7AT6E
	HPE 3 year Proactive Care 24x7 with DMR DL180 Gen9 Service HPE 3 year Proactive Care 24x7 with CDMR DL180 Gen9 Service Installation & Start-up Services HPE Installation ProLiant DL180/DL380e Service HPE Installation and Startup DL180 DL380e Service	U7AT7E U7AT8E U6E81E U6E83E

Memory Population guidelines



General Memory Population Rules and Guidelines:

- . Install DIMMs only if the corresponding processor is installed.
- . If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- . To maximize performance, it is recommended to balance the total memory capacity between all installed processors and load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- . White DIMM slots denote the first slot to be populated in a channel.
- . Place the DIMMs with the highest number of ranks in the white slot when mixing DIMMs of different ranks on the same channel.
- . Do not mix RDIMMs or LRDIMMs.
- . Quad rank RDIMMs are not supported in HPE ProLiant DL180 Gen9 servers.
- . Quad rank LRDIMMs are capable of up to two DIMMs per channel.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- . The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors.
- . To realize the performance memory capabilities listed in this document, HPE SmartMemory is required.

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

Memory Bandwidth and Capacity								
[DIMM Type]		Registered DIMMs (RDIMMs) Lo						
HPE SKU P/N	805347-B21	805349-B21	836220-B21	805351-B21	805353-B21	805358-B21		
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank		
DIMM Capacity	8GB	16GB	16GB	32GB	32GB	64GB		
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V		
DRAM Depth [bit]	1G	2G	1G	2G	2G	2G		
DRAM Width [bit]	x8	x4	×4	x4	x4	x4		
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb	8Gb		

CAS Latency	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400	2400
SLOTS THAT CAN BE POPUL	ATED					
16 slot servers	16	16	16	16	16	16
MAXIMUM CAPACITY (GB)						
	128	256	256	512	512	1024
POPULATED DIMM SPEED (M	IT/s)					
1 DIMM Per Channel	2400	2400	2400	2400	2400	2400
2 DIMM Per Channel	2133	2133	2133	2133	2400	2400
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a	n/a

NOTE: DL180 has 2 DIMMs per channel and hence 3 DIMMs per channel memory speeds are not applicable on DL180.

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

Memory Bandwidth an	d Capacity							
[DIMM Type]		Load Reduced (LRDIMMs)						
HPE SKU P/N	726717- B21	726718- B21	759934- B21	726719- B21	728629- B21	726720- B21	726722- B21	726724- B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Quad Rank
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB	64GB
Voltage	0	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
DRAM Depth [bit]	512M	1G	512M	1G	1G	2G	2G	2G
DRAM Width [bit]	x8	x4	x8	x4	x4	х4	x4	x4
DRAM Density	4Gb	4Gb	4Gb	4Gb	4Gb	8Gb	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	15-15-15
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133	2133
SLOTS THAT CAN BE	POPULATED							
16 slot servers	16	16	16	16	16	16	16	16
MAXIMUM CAPACITY	(GB)							1
	64	128	128	256	512	256	512	1024
POPULATED DIMM SP	EED (MT/s)	1		1	1	1	1	1
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133
2 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133

3 DIMM Per Channel n/	/a n/a	n/a	n/a	n/a	n/a	n/a	n/a
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NOTE: DL180 has 2 DIMMs per channel and hence 3 DIMMs per channel memory speeds are not applicable on DL180.

DIMM slot and	DIMM slot a		
configuration	Basic memo		
diagram	 Population 		

nd configuration diagrams

ory slot & population diagram

order; start with "A" first, "B" second, "C" third, etc.

- When one processor is installed, install DIMMs in sequential alphabetic order: A, B, C, D, E, F.
- When two processors are installed, install DIMMs in sequential alphabetic order: CPU1-A, CPU2-A,CPU1-B,CPU2-B,CPU1-C, CP2-C

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

		CPU 1		CPU 2		
	Slot #	population order	Slot # p	oopulation order		
Chnl 3	1	С	1	С		
	2	G	2	G		
		CPU 1		CPU 2		
	Slot #	population order	Slot # p	oopulation order		
Chnl 4	3	D	3	D		
	4	Н	4	Н		
		CPU 1				
		CPU 1		CPU 2		
	Slot #	CPU 1 population order	Slot # p	CPU 2		
Chnl 2	Slot #		Slot # p]	
Chnl 2			<u> </u>			
Chnl 2	5	population order F	5	Population order F B		
Chnl 2	5 6	population order F B	5	population order		
Chnl 2 Chnl 1	5 6	population order F B CPU 1	5	Population order F B CPU 2		

Me Pro

by Processor Models		Supported Memory Speeds	
E5-2609v3, E5-2603v	/3	1600MT/s	
E5-2640v3, E5-2630v E5-2623v3	/3, E5-2620v3, E5-2630Lv3,	1866MT/s	
E5-2660v3, E5-2650v	/3, E5-2650Lv3	2133MT/s	
E5-2609v4, E5-2603v	/4	1866MT/s	
E5-2630Lv4, E5-2620 E5-2630v4	0v4, E5-2623v4, E5-2640v4,	2133MT/s	
E5-2650Lv4, E5-2660 E5-2695v4, E5-2683v	0v4, E5-2650v4, E5-2680v4, /4	2400MT/s	

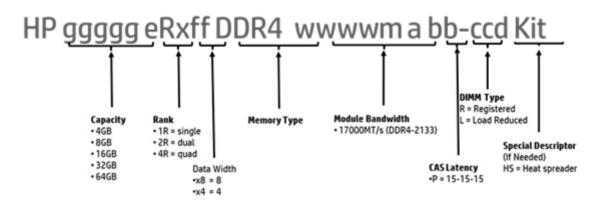
Standard and	Pre Configured Models	Standard Memory	Maximum Memory Plus	Standard Memory
Maximum Memory			Optional Memory	Replaced with Optional
Capacity (Pre-			. ,	Memory
configured Models)	-	• •		

E5-2623v4		496GB (15x32GB, 1x16GB)	1024GB (16x64GB)
E5-2609v4, E5-2609v3, E5-2603v4, E5-2603v3	8GB (1x8GB)	488GB (15x32GB, 1x8GB)	1024GB (16x64GB)

DDR4 memory options part number decoder

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

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



Storage

4-bay LFF non-hot-plug drive model	1-4	4 x LFF SATA Non-Ho Bays
8-bay LFF hot-plug drive model	1-8	8 x LFF SATA/SAS/SE Drive Bays
12-bay LFF hot-plug drive model	1-12	12 x LFF SATA/SAS/S Drive Bays
8-bay SFF hot-plug drive model	1-8	8 x SFF SATA/SAS/SE bays
16-bay SFF hot-plug drive model	1-16	16 x SFF SATA/SAS/S drive bays

- 4 x LFF SATA Non-Hot Pluggable Hard Drive Bays
- 8 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays
- 12 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays
 - 8 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays
- 16 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays

System Unit	Dimensions	SFF Drives: 3.44 x 2	17.54 x 23.9 in (8.75 x 44.55 x 60.7cm)
-	(with bezel)	LFF Drives: 3.44 x 2	17.54 x 23.9 in (8.75 x 44.55 x 60.7 cm)
	Weight (approximate)	Maximum: (all hard drives: front + rear, full power supply, and processor installed)	47/6 lb (21.59 kg)
		Minimum: (one SFF hard drive, single power supply, and processor installed. HDD not installed)	36.58 lb (16.59 kg)
	Input Requirements	Rated Line Voltage	100 to 240 VAC
		Rated Input Current	For 550W Power Supply: 6.7 A (at 100 VAC) 3.3 A (at 200 VAC)
		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),
	Power Specifications	the online tool loca or http://www.hp .	2153 BTU/hr (at 200 VAC) ystem power ratings use the Power Advisor which is available via ited at URL: <u>http://www.hp.com/go/proliant-energy-efficient</u> .com/go/hppoweradvisor - Click on the system of interest. iten9- Follow the instructions of the next screens.
	Power Supply Output	Rated Steady- State Power	For 550 W Power Supply: 550 W (at 100 VAC), 550 W (at 200 VAC),
		Maximum Peak Power	For 550 W (at 200 VAC), 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).
			For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10° C (41° to 50° F) and 35° to 40° C (95° to 104° F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

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

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

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

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

		NOTE: Supports A3 and A4 extended ambience.
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is
Relative	Operating	20°C/hr (36°F/hr). Minimum to be the higher (more moisture) of -12°C (10.4°F)
Humidity	Operating	dew point or 8% relative humidity. Maximum to be the lower
		(less moisture) of 24°C (75.2°F) dew point or 90% relative
		humidity.
(non-condensing)	Non-operating	5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
Acoustic Noise	average bystander product is operatin	ared A-Weighted sound power levels (LWAd) and declared position A-Weighted sound pressure levels (LpAm) when the g in a 23°C ambient environment. Noise emissions were dance with ISO 7779 (ECMA 74) and declared in accordance MA 109).
	Idle	
	L WAd	Entry NHP: 5.3 B
		Entry HP: 5.3 B
		Base LFF: 5.3 B
		Base SFF: 5.2 B
		12 LFF: 4.9 B
	L pAm	Entry NHP: 37 dBA
		Entry HP: 37 dBA
		Base LFF: 37 dBA
		Base SFF: 36 dBA 12 LFF: 32 dBA
	Operating	
	L WAd	
	L WAU	Entry NHP: 5.3 B Entry HP: 5.3 B
		Base LFF: 5.3 B
		Base SFF: 5.2 B
		12 LFF: 4.9 B
	LpAm	Entry NHP: 38 dBA

Entry HP: 37 dBA

Base LFF: 37 dBA
Base SFF: 37 dBA
12 LFF: 33 dBA

	6TB 6G LFF mid 2400 MHz, two NOTE: Entry HF 6G LFF midline one 550W ATX NOTE: Base LFF 6G LFF midline one 550W ATX NOTE: Base SFF 600GB 12G SFF system fans, one NOTE: 12 LFF C 6G LFF midline one 800W/900V with one 4GB ca NOTE: Values a only. NOTE: Performa	 HP Configuration included one Intel E5-2603v4 processor, two dline SATA non-hot-pluggable HDD, one 8GB DDR4 RDIMMs system fans, one 550W ATX power supply. Configuration included one Intel E5-2603v4 processor, two 6TB SATA HDD, one 8GB DDR4 RDIMMs 2400 MHz, two system fans, power supply. Configuration included one Intel E5-2609v4 processor, two 6TB SAS HDD, one 8GB DDR4 RDIMMs 2400 MHz, two system fans, power supply, one H240 HBA controller. Configuration included one Intel E5-2609v4 processor, two 6TB SAS HDD, one 8GB DDR4 RDIMMs 2400 MHz, two system fans, power supply, one H240 HBA controller. Configuration included one Intel E5-2609v4 processor, two 5 enterprise SAS HDD, one 8GB DDR4 RDIMMs 2400 MHz, two e 550W ATX power supply, one H240 HBA controller. Configuration included one Intel E5-2623v4 processor, two 6TB SAS HDD, one 16GB DDR4 RDIMMs 2400 MHz, four system fans, N gold AC power input module, one P840 smart array controller ache module, one smart storage 96W battery. re subject to change without notification and are for reference
Emissions	FCC Rating	Class A
Classification (EMC)	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS14336-1; CNS13438; GB4943; GB9254; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
NOTE: Product conformance to cited product specif (type) testing, evaluation, or assessment. This produ eligible to bear the appropriate compliance logos an		d sound levels apply to standard shipping configurations.

HPE Dynamic Smart Array B140i	Number of PCI links	Four
Controller	PCI link rate	4Gb/s
	Storage protocol support	SATA
	SAS/SATA peak data transfer rate	6Gb/s
	Number of SAS/SATA links	10 links
	SAS/SATA connectivity	2x4 connectors; 2x1 connectors
	Expander support	No
	Drives supported (max)	l Up to 10 Internal Drives
	RAID support	0, 1, 10, 5 SATA

	Coffee					
	Software management	HPE SSA, SMH, SIM	1			
	Warranty	Server warranty				
	HPE Secure	Not Supported				
	Encryption	Not Supported				
	license					
	HPE SmartCache	Not Supported				
	License					
	HPE Smart	Supported				
	Storage					
	Administrator					
HPE Embedded Dual Port 361i	Network Interface	10Base-T/100Base	10Base-T/100Base-TX/1000Base-TX			
Adapter	Compatibility	IEEE 802.3 10Base	2-T			
		IEEE 802.3ab 1000	OBase-T			
		IEEE 802.3u 100B	ase-TX			
		IEEE 1588, IEEE 80	02.1AS			
			ergy Efficient Ethernet (EEE)			
	Data Transfer Method	nod				
	Controller					
	Network					
	Transfer Rate	Duplex)	10 Mb/s per port, 40 Mb/s combined			
		10Base-T (Full-				
		Duplex)	20 Mb/s per port, 80 Mb/s combined			
		100Base-TX (Half- 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 areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.				
		http://www8.hp.com/us/en/hpe/hp-				
			information/livingprogress/environmentalprogress/product- recycling.html#.V-IPA_krKiM			
		treatment inform information (pro	directive (2002/95/EC) requires manufacturers to provide mation for each product type for use by treatment facilities. This oduct disassembly instructions) is posted on the Hewlett Packard site. These instructions may be used by recyclers and other WEEE			
		•				

treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

http://www8.hp.com/us/en/hpe/hpinformation/livingprogress/environmentalprogress/productrecycling.html#.V-IPA_krKiM

Summary of Changes

Date	Version History	Action	Description of Change
17-Feb-2017	From Version 20 to 21	Changed	HPE Memory section under Core Options was revised.
13-Feb-2017	From Version 19 to 20	Added	Added new HDD and SSD offering to the HPE Drives section.
		Changed	HPE InfiniBand, HPE Converged Infrastructure Management Software, and HPE USB and SD Options were revised.
		Removed	SKUs 778452, 778453, 778454, and 778455 were removed from the Pre-configured Models section.
			Obsolete SKUs were removed from the HPE Processors.
28-Nov-2016	From Version 18 to 19	Added	Added new Hard Drives offering. Added new HPE Tape Backup options.
		Changed	Maximum Internal Storage
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Oct-2016	From Version 17 to 18	Removed	Obsolete Hard Drives were removed from the QuickSpecs.
26-Sep-2016	From Version 16 to 17	Added	Added new 10TB SATA LFF Hard Drives offering.
		Changed	Maximum Internal Storage, HPE PCIe Workload Accelerator Options, and HPE Storage Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
10-Jun-2016	From Version 15 to 16	Removed	HPE Dual 32GB microSD Enterprise Midline USB Kit was removed from the QuickSpecs.
6-Jun-2016	From Version 14 to 15	Added	Added new HDD offering to the HPE Drives section. New options added to the HPE Storage Controllers and HPE Disk Backup section.
		Changed	Memory, Memory Protection, Expansion Slots, Maximum Internal Storage, Interfaces, Upgradeability, HPE Networking, HPE Converged Infrastructure Management Software, and HPE Tape Backup were revised.
6-May-2016	From Version 13 to 14	Changed	Memory, Maximum Internal Storage, and Technical Specifications sections were revised.
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, and new HDD offerings.
		Changed	Power Supplies, 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.

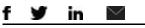
Summary of Changes

1	1	Changed	HPE Power Supplies, HPE Computation and
		Changeu	Graphics Accelerators, HPE Tape Backup, HPE Disk
			Backup, HPE Data Center Racks, and HPE Power
			Distribution Units (PDUs) were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
1-Dec-2015	From Version 9 to 10	Added	New HDD offering was added to HPE Drives.
			New options added to HPE PCIe Workload Accelerator Options.
		Changed	On System Management Chipset, Embedded Management, and Server utilities were revised.
			Product images were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Sep-2015	From Version 8 to 9	Added	Added new 6Gb SATA Solid State Drives.
			Added new HPE OneView management software.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 7 to 8	Added	New Solid State Drives offering was added to Core Options.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
1-Jun-2015	From Version 6 to 7	Added	New Hard Drives offering.
			New HPE OneView licenses added to HPE Converged Infrastructure Management Software.
			New RDX+ external backup options were added.
		Changed	Maximum Internal Storage was revised.
			Core options and Additional Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
30-Mar-2015	From Version 5 to 6	Added	New Hard Drives offering.
			Optional Software added to HPE Storage Controllers.
		Changed	HPE Memory, HPE Power Supplies, HPE Storage Controllers, and HPE Disk Storage Systems were revised.
9-Feb-2015	From Version 4 to 5	Added	Added Network controller, new HPE Drives, and new G4 UPS models.
		Changed	HPE Drives, HPE Computation and Graphics Accelerators, HPE Tape Backup, HPE Disk Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, HPE Uninterruptible Power Systems (UPS), HPE Networking, and HPE Power Distribution Units (PDUs) sections were revised.
1-Dec-2014	From Version 3 to 4	Changed	Changes made throughout the entire QuickSpecs.
13-Oct-2014	From Version 2 to 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section. HPE PCIe Workload Accelerator Options, HPE USB and SD options were added to the Additional Options section.

Summary of Changes

			Standard Features, Optional Features, Configuration Information - Factory Integrated Models, and Memory sections were revised. Warranty was revised in Standard Features section.
19-Sep-2014	From Version 1 to 2	Changed	Changes made throughout the entire QuickSpecs.





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

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