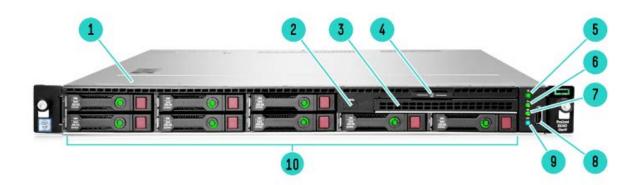
QuickSpecs

Overview

HPE ProLiant DL160 Generation9 (Gen9)

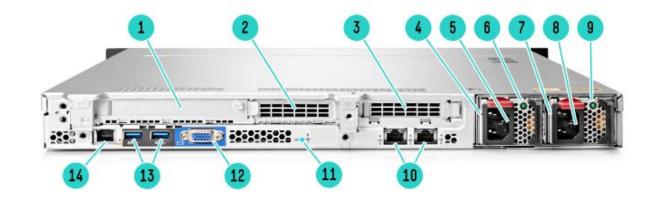
The HPE ProLiant DL160 Gen9 is the next generation 2P 1U value server replacing DL360e Gen8. It delivers the right balance of performance, storage, reliability, manageability and efficiency in a dense and compact chassis, to meet the needs of a diverse set of customers- from SMBs and service providers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



Front View

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

- 2 Optional USB3.0 (optional with 8SFF only)
- 4 Serial label pull tab
- 6 Health LED
- 8 USB 2.0 connector
- 10 8SFF drive cage



Rear View

- 1 PCle3 slot 1 (primary, associated with processor 1)
- 3 PCle3 slot 3 (secondary, associated with processor 2)
- 2 PCle3 slot 2 (primary, associated with processor 1)
- 4 Power supply 1 bay

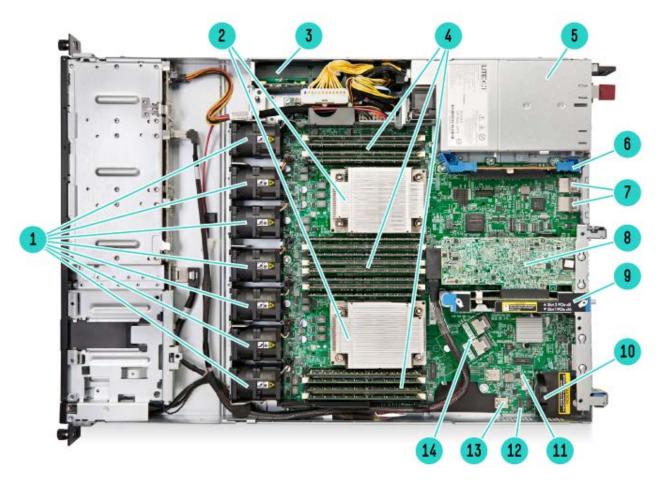
Hewlett Packard Enterprise

QuickSpecs

Overview

- 5 Power supply 1 Power Connector (Optional)
- 7 Power supply 2 bay
- 9 Power Supply 2 LED
- 11 Unit ID LED
- 13 USB3.0 connectors

- 6 Power supply 1 LED (Optional)
- 8 Power supply 2 power connector
- 10 Embedded 2x1GbE network adapter
- 12 Video Connector
- 14 Dedicated iLO connector (optional)



Internal View

- 1 Hot Swappable fans (up to 7)
- HPE Smart Storage Battery (optional) 3
- 5 Entry level power supply bay (1x900W shown) NOTE: RPS (with one module) shown in the picture above.
- 7 Embedded 2x1GbE network adapter
- 11 MicroSD card slot

- 2 Processor heat sinks (processors with HPE Smart Sockets placed below heat sinks)
- 4 DDR4 DIMM slots (up to 16). Shown fully populated in 16 Slots (8 per Processor)
- 6 Connector for secondary PCIe riser (associated with CPU2)
- 8 HPE Smart Array P440 controller (optional)
- 10 Dedicated iLO module connector (optional)
- 9 Primary PCIe riser (2 PCIe3 slots associated with CPU1) 12 Internal SATA ports (one for ODD and another one reserved)
 - 14 Embedded B140i SATA controller (2x SATA ports for up to eight drives)

13 Internal USB 3.0 connector

What's New

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

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

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

Chipset

One of the following depending on model

Intel® C610 Series Chipset Intel® E5-2600v3 Processor Family Intel® E5-2600v4 Processor Family **NOTE:** For more information regarding Intel® chipsets, please see the following URL: <u>http://www.intel.com/products/server/chipsets/</u>

On SystemHPE iLO (Firmware HPE iLO4 2.0 or later) 2GB NANDManagement ChipsetNOTE: Read and learn more in the iLO QuickSpecs.

Memory One of the following depending on model	Type: HPE SmartMemory DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)				
	DIMM Slots Available	16	(8 DIMM slots per processor, 4 channels per processor, 2 DIMMs per channel)		
	Maximum Capacity	1TB	(16 x 64GB LRDIMM @2400MHz)		

	(LRDIMM) Maximum Capacity (RDIMM)	512GB (16 x 32GB RDIMM @2400MHz)		
Memory Protection One of the following depending on model	Advanced ECC	Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip.		
	Online Spare	Memory online spare mode detects a rank that is degrading and switches operation to the spare rank.		
	Mirroring mode	Memory mirroring inter-socket stores a copy of memory with dynamic failover in case of failure. Once a DIMM in a mirrored set is detected as failed, the mirror failover uses its mirrored DIMM.		
Network Controller	HPE Ethernet 1Gb 2-	Port 361i Adapter		

Expansion Slots

CPU1 PCIe riser slots	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
	1	PCle 3.0	x16	x16	Full-height, half- length slot	Processor 1
	2	PCle 3.0	x8	x8	Low profile slot	Processor 1
	NOTE: Bus	Width data indica	ates the num	ber of physical	electrical lanes runni	ng to the connector.
CPU 1 FlexibleLOM riser slots	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
	1	Flexible LOM	x8	x8	Flexible LOM	Processor 1 (can only be used for FlexibleLOMs)
	2	PCle 3.0	x8	x8	Low profile slot	Processor 1
	NOTE: This ris	er is mandatory fo	or installing	FlexibleLOMs.		
CPU2 riser PCIe slots	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
	3	PCle 3.0	x16	x16	Low profile slot	Processor 2
	NOTE: When p	opulating slots or	n CPU2 riser,	, second process	or must be installed.	
		- Athe CDUI DC	lo ricore con	be selected in a	ny given configuratio	on.
	NOTE: Only on	e of the CPUI PC	le lisers call		15	
		the CPU 1 risers is				
Storage Controller		the CPU 1 risers is	s mandatory		ations.	
One of the following	NOTE: One of	the CPU 1 risers is	s mandatory	for all configura	ntroller	
One of the following	NOTE: One of	the CPU 1 risers is HPE Dy HPE H2	s mandatory mamic Smart 240 FIO Sma	for all configura	ntroller oter	
One of the following	NOTE: One of Entry Models	the CPU 1 risers is HPE Dy HPE H2 HPE H2	rnamic Smart 240 FIO Sma 240 FIO Sma	for all configura Array B140i Co rt Host Bus Adap	ntroller oter oter	
One of the following	NOTE: One of Entry Models Base Models Performance M NOTE: B140i p	the CPU 1 risers is HPE Dy HPE H2 HPE H2 lodels HPE Sn provides support f	s mandatory mamic Smart 240 FIO Sma 240 FIO Sma nart Array P4	for all configura Array B140i Co rt Host Bus Adap rt Host Bus Adap 40/4G Controlle	ntroller oter oter	
One of the following	NOTE: One of Entry Models Base Models Performance M NOTE: B140i p supports RAID	HPE Dy HPE Dy HPE H2 HPE H2 Iodels HPE Sn provides support 1 0, 1 & 5.	s mandatory mamic Smart 240 FIO Sma 240 FIO Sma nart Array P4 for up to 8 S	for all configuration Array B140i Co rt Host Bus Adap rt Host Bus Adap 440/4G Controlle ATA drives, data	ntroller oter oter er a transmission speed	s up to 6Gb/s and
Storage Controller One of the following depending on model	NOTE: One of Entry Models Base Models Performance M NOTE: B140i p supports RAID	HPE Dy HPE Dy HPE H2 HPE H2 Iodels HPE Sn provides support f 0, 1 & 5. provides support f	s mandatory mamic Smart 240 FIO Sma 240 FIO Sma nart Array P4 for up to 8 S	for all configuration Array B140i Co rt Host Bus Adap rt Host Bus Adap 440/4G Controlle ATA drives, data	ntroller oter oter er	s up to 6Gb/s and

Internal Storage Devices One of the following depending on model	Optical Drive Hard Drives Hard Drive Bays	Optional: DVD-ROM, DVD-RW None ship standard 4 LFF drive bays total with Optical bay 8 SFF drive bays total with Optical Bay
		 NOTE: HPE ProLiant DL160 Gen9 server offers both SFF and LFF versions. The Optical Drive bay is available with both models. NOTE: Drive cage changes are not supported. NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either P/N 666987-B21: HPE SFF Gen9 Hard Drive Blank Kit or P/N 666986-B21: HPE LFF Gen9 Hard Drive Blank Kit. These part numbers for single HDD blanks below are also provided should the customer require replacement HDD blanks for their server.

Maximum Internal		CAPACITY	CONFIGURATION
Storage	Hot Plug SFF SAS	16.0TB	8 x 2TB
One of the following depending on model		8 x 2TB	
depending on moder	Hot Plug LFF SAS	40.0TB	4 x 10TB
	Hot Plug LFF SATA	40.0TB	4 x 10TB
	Hot Plug SFF SAS SSD	30.72TB	8 x 3.84TB
	Hot Plug SFF SATA SSD	30.72TB	8 x 3.84TB
	Hot Plug LFF SATA SSD	15.36TB	4 x 3.84TB
	Non Hot Plug LFF SATA	16TB	4 x 4TB

Power Supply

One of the following depending on model

HPE 550W FIO Power Supply

HPE 900W Redundant Power Supply

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

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

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

System Fans	1P model	Non-redundant	Redundant
One of the following		3 fans	4 fans
depending on model		Non-redundant	Redundant
	2P model	6 fans	7 fans

NOTE: Redundant fan option kit (PN: 725587-B21) can be bought separately if redundancy is required with 1P or 2P configurations.

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

Interfaces	Video	1 (Vaux Support)				
	LOM Network Ports	2x1GbE network ports				
	HPE iLO Remote Management Network Port	1 GbE (Optional)				
	USB	4 USB ports (standard); 1 (optional) Front: 1xUSB 2.0 std; 1xUSB3.0 optional (with 8SFF models only) Rear: 2xUSB 3.0				
		Internal: 1xUSB 3.0				
	Micro SD Slot 1 Micro SD					
	NOTE: The SD slot is not a hot-p the SD slot while the server is po	luggable device. Customers should not attempt to plug an SD card into wered.				
Operating Systems and Virtualization	<u>Microsoft Windows Server</u> <u>Red Hat Enterprise Linux (RHEL</u>	ے ک				
Software Support fo ProLiant Servers	r SUSE Linux Enterprise Server (SLES) VMware					
	Servers for OS and Virtualization please visit our Support Matrix at	the Hewlett Packard Enterprise Certified and Supported ProLiant Software and latest listing of software drivers available for your server, It: <u>http://www.hp.com/go/ossupport</u> and our driver download page hpsc/swd/public/readIndex?sp4ts.oid=7268998.				
Upgradeability	Upgradeable to 2 processors (36	Cores)				
One of the following depending on model	NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported for processors up to 105W. Up to 16 DIMM slots available					
	NOTE: To take advantage of DIMMs 9-16, second processor must be installed.					
	FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options					
	Optional 2nd CPU riser slot (x16, low profile)					
	NOTE: 2nd CPU must be installed if this riser is configured.					
	Up to 8 SFF Hard Drive Bays; or 4 LFF Hard Drive Bays					
	Redundant Power Supply					
	Redundant Fan Optical Drive Bay (8 SFF/4 LFF)					
Industry Standard	ACPI 2.0b Compliant					
Compliance	PCle 3.0 Compliant					
	PCIe 5.0 Compliant PXE Support					
	WOL Support					
	Microsoft® Logo certifications					
	USB 3.0 Support					
	ASHRAE A3					
	NOTE: Supports A3 extended an	abient temperature				
	NOTE: Refer to technical specific					
		Page (
		Pane				

Graphics	• 1280 x 1	x G200eH2 video standard 1024 (32 bpp) 1200 (16 bpp)					
HPE Server UEFI/Legacy ROM	and more secured ProLiant Gen9 pl Mode. NOTE: The UEFI	nsible Firmware Interface (UEFI) is an industry standard that provides better manageability cured configuration than the legacy ROM while interacting with your server at boot time. HPE n9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of For more information, please visit <u>http://www.hpe.com/servers/uefi</u> .					
	UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:						
	Secure Boot						
	 Operating system specific functionality 						
		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	1U Rack form fac	tor					
One of the following	8SFF and 4LFF version:						
depending on model	1.7" (4.3cm) Heig	ht x 17.1" (43.5cm) Width x 23.9" (60.8cm) Length					
Embedded Management	HPE Integrated Lights-Out (HPE iLO)	Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at http://www.hpe.com/info/ilo .					
	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <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 .					

ent oning ded e Support Update vstems Manager IM)	 Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning. The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore. Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at http://www.hpe.com/servers/smartupdatemanager. 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.
update vstems Manager	Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore. Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at http://www.hpe.com/servers/smartupdatemanager. HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE
rstems Manager	Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at http://www.hpe.com/servers/smartupdatemanager. HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE
Manager	
	HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at <u>http://www.hpe.com/servers/hpsim</u> .
ng Tool ws Shell	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 <u>http://www.hpe.com/servers/proliant/stk</u> or <u>http://www.hpe.com/servers/powershell</u> .
ıl ce 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 .
O Mobile ation	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 .
sight	HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at <u>http://www.hpe.com/info/insightonline/explore</u> .
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s C	terface cc trator's pa)

network of HPE Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE 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/.

Embedded **iLO** Essentials HPE iLO Essentials is the preferred license for small and medium business that offers full Management remote server management capabilities for small and medium business via the Integrated Remote Console (IRC), virtual media, and e-mail based alerts. Learn more about HPE iLO Essentials at http://www.hpe.com/servers/iLO/essentials. iLO Scale-Out HPE iLO Scale-Out is the preferred license built for web hosting, cloud service providers. and high performance computing data centers, managing massive scale out environments for the DL 100 and 10 series servers, not available for ML servers. This license offers sophisticated scripting tools that provides remote access through Text Console via SSH, Dynamic power capping, Email-based Alerting and proactive notifications. For more information, visit http://www.hpe.com/servers/iLO/scale-out. iLO Advanced HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay. and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at http://www.hpe.com/servers/iloadvanced. Server Management HPE Insight HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, Control 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. **HPC Interconnects NOTE:** High Performance Computing (HPC) interconnect technologies are available for this server under the HPE Cluster Platform product portfolio. These high-speed interconnects are fully supported by Hewlett Packard Enterprise when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPEC Clusters with InfiniBand Interconnects: 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.

Optional Features

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 <u>http://www.hp.com/go/vsa1TB</u>.

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

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://h2174.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	Basic: HPE Foundation Care NBD, three-year Support Service HPE Foundation Care Next Business Day connects you to Hewlett Packard Enterprise during business hours for assistance on resolving issues – This service features need based next business day hardware onsite response and software call back within two hours. In addition, Collaborative software support and provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems. https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en
	Standard: HPE Foundation Care 24x7, three-year Support Service HPE Foundation Care 24x7 gives you access to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues. This service includes need based Hardware onsite response within four hours. In addition, collaborative software support is included in this service that provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems. https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en
	Optimized: HPE Proactive Care* with 24x7 coverage, three year Support Service HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.
Parts and 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

Service and Support

and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf HPE Installation and Startup Service Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems, C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux). HPE Technology Services Support Credits Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business. **HPE Education** Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book Services 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. **NOTE:** *HPE Support Center Mobile App is subject to local availability. For more information: http://www.hpe.com/services

Pre-configured Models

For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information - Factory Integrated Models" section.

1. Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.

2. Hewlett Packard Enterprise does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.

3. If you desire a custom configuration please see "Configuration Information - Factory Integrated Models" section of this QuickSpecs.

NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either P/N 666987-B21: HPE SFF Hard Drive Blank Kit or P/N 666986-B21: HPE LFF Hard Drive Blank Kit.

NOTE: All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the **ProLiant Power Cables** web page.

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.

	Entry M	lodels	Base Models			
[SKU Number]	830570-B21	830571-B21	830572-B21			
Model Name	HPE DL160 Gen9 E5- 2603v4 1P 8GB-R B140i 4LFF 550W PS Entry Server	HPE DL160 Gen9 E5- 2603v4 1P 8GB-R H240 8SFF 550W PS Entry Server	HPE DL160 Gen9 E5-2620v4 1P 16GB-R H240 8SFF 550W PS Base Server			
Processor	Intel [®] Xeon [®] E5-2603v4		Intel® Xeon® E5-2620v4			
Number of Processors	One					
Memory	8GB (1x8GB Registered NOTE: Due to processor DIMMs will operate at 18	limitation, these DDR4	16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 2133 MHz in this model.			
Network Controller	HPE Embedded Dual Port 361i Adapter Network Interface					
Storage Controller	HPE Dynamic Smart Array B140i	HPE H240 FIO Smart Host Bus Adapter	HPE H240 FIO Smart Host Bus Adapter			
Hard Drive		None sh	ip standard			
Internal Storage	4 LFF HDD Bays	8 SFF HDD Bays	8 SFF HDD Bays			
Optical Drive Bay		1; (Optional: DVD-ROM, DVD-RW)				
Optical Drive	Opti	onal Slim Optical Bay (SA	TA DVD-RW/ROM Optical Drive)			
PCI-Express Slots		2 Standard (1-FH	H/HL, 1-LP) PCIe 3.0			
Power Supply		(1) HPE 550W	FIO Power Supply			
Fans	3 hot swap fans,	non-redundant	4 hot swap fans, redundant			
Management	iLO Management (standa	0	ng (standard), iLO Essentials (optional), iLO Scale-out , iLO Advanced (optional)			
Form Factor		Rack (1U), HP	E Easy Install Rails			
Warranty	Server Warranty includ		abor, 1-Year Onsite support with next business day ponse.			

Smart Buy Models

	E5-2600v4 Series Smart Buys					
[SKU Number]	830574-S01	860102-S01	867445-S01 830577-S01			
Model Name	HP ProLiant DL160 Gen9 E5-2609v4 1.7GHz 8- core 8GB-R B140i 4LFF 550W PS US Server/S- Buy	HPE ProLiant DL160 Gen9 E5-2609v4 SFF US Svr/S-B	HPE ProLiant DL160 Gen9 E5-2609v4 SFF US Svr/S-Buy	HP ProLiant DL160 Gen9 E5-2620v4 2.1GHz 8-core 8GB-R P440/2GB 8SFF 900W PS US Server/S-Buy		
Processor		Intel® Xeon® E5-2609v4		Intel® Xeon® E5-2620v4		
Number of Processors		0	ne			
Memory		0	istered DIMMs, 2400 MHz) rate at 1866MHz with this processor. NOTE: The DIMMs, 2400 MHz) NOTE: The DIMMs will operate at 2133MHz with this processor.			
Network Controller	H	PE Embedded Dual Port 36	51i Adapter Network Interf	ace		
Storage Controller	HPE Dynamic Smart Array B140i	HPE H240	D Smart HBA HPE Flexible Smart Array P440/2G + Smar Storage battery			
Hard Drive		None ship	ip standard			
Internal Storage	4 LFF HDD Bays		8 SFF HDD Bays			
Optical Drive Bay		None Included; Option	al: DVD-ROM, DVD-RW			
PCI-Express Slots		2 Standard (1-FH/	'HL, 1-LP) PCle 3.0			
Power Supply	One (1) HPE 550W	/ FIO Power Supply	One (1) HPE 900W Redundant Capable Power Supply Kit			
Fans	3 hot swap fans, non-redundant					
Management	Standard: iLO Management Optional: iLO Essentials, iLO Advanced, Insight Control					
Form Factor		Rack (1U), HPE Easy Install Rails				
Warranty	3-Year Parts, 1	-Year Labor, 1-Year Onsite	e support with next business day response.			

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)

CTO Server	HP ProLiant DL160 Gen9 Hot Plug 8SFF Configure-to-order Server	HP ProLiant DL160 Gen9 Hot Plug 4LFF Configure-to-order Server	HP ProLiant DL160 Gen9 Non- hot Plug 4LFF Configure-to- order Server	
SKU Number	754520-B21	754521-B21	754522-B21	
Processor	2	(optional) x HPE Smart Socket Gui	Guide	
DIMM Slots	16 DIMM slots for RDIMM, LRDIMM DDR4 Memory			
Storage Controller	HPE Dynamic Smart Array B140i			
PCle	Optional (None ship standard)			
Drive Cage	8SFF Hot Plug	4LFF Hot Plug	4LFF Non Hot Plug	
Network Controller	HPE Embed	bedded Dual Port 361i Adapter Network Interface		
Fans	3 hot swap fans, non-redundant			
Management	iLO Management (standard), Intelligent Provisioning (standard)			
USB	1 front, 1 internal, 2 rear			
Ears		HPE Thumbscrew Ears		

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

HPE Processors E5-2600v4 series Processors

HPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit	801287-L21
HPE DL160 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	801288-L21
HPE DL160 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit	801289-L21
HPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit	801290-L21
HPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit	801291-L21
HPE DL160 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit	801301-L21
HPE DL160 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit	801283-L21
HPE DL160 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	801284-L21
HPE DL160 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor	801285-L21

	Kit			
	HPE DL160 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit	825494-L21		
	HPE DL160 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor Kit	825498-L21		
	HPE DL160 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit	825500-L21		
	HPE DL160 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	801286-L21		
	NOTE: If two processors are desired, select one xxxxxx-L21 and one corresponding xxxxx	x-B21		
	NOTE: Up to two processors supported. Mixing different processor models is not supported	ed.		
	NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory spee on the quantity and type of DIMMs installed.	ed may depend		
	NOTE: When v4 Processor is selected, then only PC4-2400T Memory Kit can be selected.			
	NOTE: When v3 Processor is selected, then only PC4-2133P Memory Kit can be selected.			
	NOTE: For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model numbe Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) = version num	designation,		
HPE Memory	NOTE: Select one or more memory kits from below.			
	NOTE: LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM			
	NOTE: HPE memory from previous generation servers are not qualified or warranted with this HPE ProLiant Server. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9			
	NOTE: 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			
	NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: <u>http://www.hpe.com/go/proliant-energy-efficient</u>			
	NOTE: Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: <u>http://www.hpe.com/go/ddr4config</u>			
	Registered DIMMs (RDIMMs) for E5-2600v4 Series			
	HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21		
	HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21		
	HP 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		
	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		
	Load Reduced DIMMs (RDIMMs) for E5-2600v4 Series			
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21		
	HP 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B21		
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series			

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	HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726724-B21	
	HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21	
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21	
	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	
	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: HPE Standard Memory DIMMs have no SmartMemory features.		
HPE I/O Expansion Options	HP DL160 Gen9 CPU1 Riser FIO Kit NOTE: This riser enables two PCIe3 slots.	725585-B21	
HPE Power Supplies	NOTE: Prior to selecting a power supply option, it is highly recommended that you review configuration in the HPE Power Advisor tool to determine the right size power supply for y configuration. The HPE Power Advisor is located at: <u>http://www.hpe.com/info/hppowera</u>	our server	
	NOTE: Mixing of power supplies in the same server is not supported. All power supplies m same input voltage, output rating, and efficiency rating. If non-matching power supplies ar you may receive an error message and/or experience operational issues with your server.		
	HPE Entry-Level Power Supplies		
	HP 550W FIO Power Supply Kit	730941-B21	
	HPE 900W AC 240VDC Power Input FIO Module NOTE: HP Server RPS FIO Backplane Kit (828735-B21) is required for this power	828734-B21	
	supply.		
	NOTE: Up to two of these option kits can be installed in one system.	020775 021	
	HPE 900W AC 240VDC Power Backplane FIO Kit NOTE: One is required when one or two HPE 900W AC 240VDC Power Input FIO Modules (828734-B21) are ordered.	828735-B21	
Step 3: Choose A	dditional Factory Integratable Options (only one of the following from	m each list	
unless otherwise			
HPE Storage Controllers	NOTE: One of the cable options below is required to be selected depending on combinations of CTO Server and Storage Controller. If not using the embedded B140i controller, must select one of the following HP Storage Controllers and Cable Options noted below.		
	NOTE: HP ProLiant DL160 Gen9 NHP 4LFF CTO Server (754522-B21) includes SATA Cato support the embedded B140i controller and no cable option is required.	bles required	
	HPE Smart Array Controllers		
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller NOTE: Includes the HP Smart Storage Battery NOTE: If HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21) or HP ProLiant DL160 Gen9 4LFF CTO Server (754521-B21) is selected in Step 1 above.	761872-B21	
	HPE Smart Host Bus Adapters		
	HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter NOTE: Includes the HP Smart Storage Battery NOTE: If HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21) or HP ProLiant DL160 Gen9 4LFF CTO Server (754521-B21) is selected in Step 1 above.	761873-B21	

HPE Cable Options

	HP DL160 Gen9 4LFF Smart Array B140i SATA Cable FIO Kit NOTE: Required if using the embedded B140i as the primary controller with the HP ProLiant DL160 Gen9 4LFF CTO Server (754521-B21).	768775-B21
	HP DL160 Gen9 8SFF Smart Array B140i SATA Cable FIO Kit NOTE: Required if using the embedded B140i as the primary controller with the HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21).	774611-B21
	HP DL160 Gen9 4LFF Smart Array P440 SAS Cable Kit NOTE: Required with the HP ProLiant DL160 Gen9 4LFF CTO Server (754521-B21) if Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller (761872-B21) is selected.	725593-B21
	HP DL160 Gen9 8SFF Smart Array P440 SAS Cable Kit NOTE: Required with the HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21) if Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller (761872-B21) is selected.	774619-B21
	HP DL160 Gen9 4LFF Smart Array H240 SAS Cable Kit NOTE: Required with the HP ProLiant DL160 Gen9 4LFF CTO Server (754521-B21) if HP H240 12Gb 1-port Int FIO Smart HBA (761873-B21) is selected.	725590-B21
	HP DL160 Gen9 8SFF Smart Array H240 SAS Cable Kit NOTE: Required with the HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21) if HP H240 12Gb 1-port Int FIO Smart HBA (761873-B21) is selected.	774621-B21
BIOS Mode	HP Legacy FIO Mode Setting NOTE: If B140i is the primary controller, then this option cannot be selected. NOTE: Selecting this option changes the default UEFI BIOS setting into Legacy BIOS setting	758959-B22
Controller State	HP Mfg FIO Enable HBA Mode Setting NOTE: Can only be selected with H240 FIO Smart Host Bus Adapter NOTE: If H240 is the primary controller then RAID is not allowed with this selection.	792962-B21
	HP AHCI-Enable FIO Setting NOTE: If B140i is the primary controller then RAID is not allowed with this selection.	801845-B21
HPE Security	HP DL160 Gen9 Quick Release Ear FIO Kit NOTE: Required for Security Bezel option	774609-B21
HPE Insight	HPE Insight Control	
Software	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO E-LTU	C6N36ABE
HPE Converged	HPE OneView (with HPE iLO Advanced)	
Infrastructure	HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic	E5Y43A
Management	HPE OneView (without HPE iLO Advanced)	
Software	HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU	P8B31A
Step 4: Choose	Additional Options for Factory Integration from Core and Additional (Options

sections below

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.

HPE Unique Options	HP DL180 Gen9 Dedicated iLO Management Port Kit HP DL160 Gen9 Low Profile PCIe CPU2 Riser Kit NOTE: CPU 2 is required if this riser is to be installed, enables one PCIe3 slot.	725581-B21 725586-B21
	HP DL160 Gen9 Front USB 3.0 Enablement Kit NOTE: This kit is required to enable a front USB3.0 port on SFF models only.	725594-B21
	HP DL160 Gen9 FlexibleLOM Enablement Kit NOTE: This riser kit is required when FlexibleLOM is selected.	781844-B21

HPE Processors E5-2600v4 series Processors

HPE DL160 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit 801288-B21 HPE DL160 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit 801289-B21 HPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit 801290-B21 HPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit 801291-B21 HPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit 801287-B21 HPE DL160 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit 801301-B21 HPE DL160 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit 801283-B21 HPE DL160 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit 801284-B21 HPE DL160 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit 801285-B21 HPE DL160 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit 825494-B21 HPE DL160 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Processor Kit 825498-B21 HPE DL160 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit 825500-B21 HPE DL160 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit 801286-B21 E5-2600v3 series Processors HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit 733943-B21 HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit 763235-B21 HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit 733935-B21 HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit 733937-B21 HP DL160 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit 733939-B21 HP DL160 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit 763241-B21 HP DL160 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit 779836-B21 HP DL160 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit 733931-B21 HP DL160 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit 733933-B21 HP DL160 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit 763237-B21 **NOTE:** Processor upgrade from E5-2600v3 to E5-2600v4 is supported for processors up to 105W. Please refer to DL160 Gen9 User Guide for more details.

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>.

HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805347-B21 HP 16GB (1x4GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit 8053420-B21 HP 32GB (1x4GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805320-B21 HP 32GB (1x4GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805351-B21 NOTE: These Memory DIMMs are supported only on E5-26004 processors. 726717-B21 HP 8GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726718-B21 HP 8GB (1x4GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726718-B21 HP 8GB (1x4GB) 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 726719-B21 HP 32GB (1x32GB) 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 726720-B21 NOTE: These Memory DIMMs are supported only on E5-2600v3 processors. 805353-B21 Load Reduced DIMMS (LRDIMMs) for E5-2600v3 Series 726720-B21 HPE 32GB (1x4GB) Dual Rank x4 DDR4-2133 CAS-15-15-15-Load Reduced Memory Kit 726720-B21 HP 646 (1x46GB) Dual Rank x4 DDR4-2133 CAS-15-15-15-15 Load Reduced Memory Kit 726720-B21 <th>HPE Memory</th> <th>Registered DIMMs (RDIMMs) for E5-2600v4 Series</th> <th></th>	HPE Memory	Registered DIMMs (RDIMMs) for E5-2600v4 Series	
HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit836220-B21HP 32GB (1x322GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit805351-B21NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.726717-B21HP 8GB (1x8GB) Single Rank x6 DDR4-2133 CAS-15-15-15 Registered Memory Kit726717-B21HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726717-B21HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726718-B21HP 3GB (1x8GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-B21HP 3GB (1x3CGB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-B21HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-B21HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726729-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.805353-B21Load Reduced DIMMS (LRDIMMs) for E5-2000v4 Series805353-B21HPE 46G (1x46GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-B21NDTE: These Memory DIMMs are supported only on E5-2600v3 processors.726720-B21Load Reduced DIMMS (LRDIMMs) for E5-2000v3 Series726720-B21HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-B21HP 32GB (1x36GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-B21HP 4GB (1x46GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard851353-B21Memory KitNOTE: These Memory IDIMMs are supported only on E5-2600v3 processors.<		HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit805351-821NOTE: These Memory DIMMs are supported only on E5-2600V4 processors.Registered DIMMs (RDIMMs) for E5-2600V4 SeriesHP 4GB (1x4GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726717-821HP 8GB (1x8GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726718-821HP 8GB (1x8GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-821HP 32GB (1x3CGB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726219-821NOTE: These Memory DIMMs are supported only on E5-2600V3 processors.805353-821HPE 23CB (1x3CGB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805353-821HPE 52GB (1x3CGB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805353-821HPE 64GB (1x64GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit726720-821HPE 64GB (1x64GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 52GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 52GB (1x3GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 64GB (1x64GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 52GB (1x3GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 52GB (1x3GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard851353-821MOTE: These Memory DIMMs are supported only on E5-2600V4 processors.HPE 52060V3 SeriesHP 52GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit80302		HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
NOTE: These Memory DIMMs are supported only on E5-2600v4 processors. Registered DIMMs (RDIMMs) for E5-2600v3 Series HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726717-821 HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726718-821 HP 16GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726719-821 HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit 728619-821 HP 32GB (1x32GB) Dual Rank x4 DDR4-2003 CAS-17-17-17-10 Load Reduced Memory Kit 805353-821 NOTE: These Memory DIMMs are supported only on E5-2600v3 processors. 805353-821 NDTE: These Memory DIMMs are supported only on E5-2600v4 processors. 805358-821 Kit NOTE: These Memory DIMMs are supported only on E5-2600v4 processors. 805358-821 Kit NOTE: These Memory DIMMs are supported only on E5-2600v4 processors. 805358-821 HP 36GB (1x46GB) Oual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-821 HP 36GB (1x46GB) Oual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-821 HP 36GB (1x46GB) Oual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-821 HP 36GB (1x46GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-821 HP 66GB (1x46GB) Single Rank x8 DDR4-2133 CAS-15-1		HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
Registered DIMMs (RDIMMs) for E5-2600v3 SeriesHP 4GB (1x4GB) Single Rank x& DDR4-2133 CAS-15-15-15 Registered Memory Kit726717-821HP 8GB (1x8GB) Dual Rank x& DDR4-2133 CAS-15-15-15 Registered Memory Kit726718-821HP 8GB (1x8GB) Dual Rank x& DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-821HP 16GB (1x16GB) Dual Rank x& DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-821HP 32GB (1x32GB) Dual Rank x& DDR4-2133 CAS-15-15-15 Registered Memory Kit726729-821NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.805353-821Load Reduced DIMMs (LRDIMMs) for E5-2000v4 Series805353-821HPE 64GB (1x64GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.805358-821Load Reduced DIMMs (LRDIMMs) for E5-2000v3 SeriesHP 64GB (1x64GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 132GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 23GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-821HP 64GB (1x46GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-821HP 64GB (1x46GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard851353-821Memory KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.803026-821HPE 50andard Memory for E5-2600v3 SeriesHPE 86G (1x8GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory803028-821KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.8030		HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
HP 4GB (1x4GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726713-B21 HP 8GB (1x4GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726718-B21 HP 8GB (1x4GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726718-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 72629-B21 NOTE: These Memory DIMMs are supported only on E5-2600v3 processors. Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series HPE 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 805353-B21 Kit NOTE: These Memory DIMMs are supported only on 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 64GB (1x46GB) Ouad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-B21 HP 64GB (1x46GB) Ouad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-B21 HP 64GB (1x46GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-B21 HP 64GB (1x46GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-B21 HP 540G (1x46B) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard 851353-B21 <th></th> <th>NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.</th> <th></th>		NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.	
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726718-B21HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit759734-B21HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-B21HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit728629-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.805353-B21Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series805353-B21HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805353-B21KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.805353-B21Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series726720-B21HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-B21HP 32GB (1x232GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726722-B21HP 32GB (1x26B) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726722-B21HP 32GB (1x64GB) Guad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.815153-B21HPE 8GB (1x64GB) Single Rank x8 DDR4-2400 CAS-17-17-17-Registered Standard803026-B21KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.803026-B21HPE 61x64GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory803026-B21KitHP 4GB (1x4GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory803026-B21KitHP 6508 (1x8GB) Single Rank x4 DDR4-2133		Registered DIMMs (RDIMMs) for E5-2600v3 Series	
HP 8GB (1x8GB) Dual Rank x& DDR4-2133 CAS-15-15 Registered Memory Kit759934-821HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-821HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit728629-821NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.805353-821HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805358-821HPE 46GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805358-821KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.805358-821Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series726720-821HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 34GB (1x46GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 34GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 46GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-821NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.851353-821HPE 66B (1x86B) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard851353-821Memory KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803026-821KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803026-821HPE 60 (1x86B) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit803026-821NOTE: These Memory DI		HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit726719-821HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit728629-821NOTE: These Memory DIMMs are supported only on E5-2600V3 processors.805353-821Load Reduced DIMMs (LRDIMMs) for E5-2600V4 Series805353-821HPE 52GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805358-821KitNOTE: These Memory DIMMs are supported only on E5-2600V4 processors.805358-821Load Reduced DIMMs (LRDIMMs) for E5-2600V3 Series726720-821HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 32GB (1x32GB) Ouad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 64GB (1x6GB) Ouad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-821NOTE: These Memory DIMMs are supported only on E5-2600V4 processors.726724-821NOTE: These Memory DIMMs are supported only on E5-2600V4 processors.851353-821MPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit803026-821NOTE: These Memory DIMMs are supported only on E5-2600V4 processors.803028-821HPE 8GB (1x8GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit803028-821NOTE: These Memory DIMMs are supported only on E5-2600V3 processors.803028-821HPE 6GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit726533-821MOTE: These Memory DIMMs are supported only on E5-2600V3 processors.803028-821HPE 6GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory		HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit728629-821NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.805353-821HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805358-821HPE 64GB (1x46GB) Quad Rank x4 DDR4-2400 CAS-17-17-17-Load Reduced Memory Kit805358-821NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.805358-821Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series726720-821HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-821HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-821NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.726724-821NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.726724-821NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.851353-821HPE Standard Memory for E5-2600v3 Series851353-821HPE Standard Memory for E5-2600v3 Series803028-821HPE GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit803028-821NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-821HPE Gptical DrivesHP 9.5mm SATA DVD-ROM JackBlack Gen 9 Optical Drive726536-821HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives872479-821HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives872479-821HDDHDHP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Arr Wity Digitally Signed Firmware872479-821HDD<		HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.Load Reduced DIMMs (LRDIMMs) for E5-2600v4 SeriesHPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory KitHPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced MemoryKitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.Load Reduced DIMMs (LRDIMMs) for E5-2600v3 SeriesHP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory KitT26720-B21HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory KitP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory KitT26722-B21HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE Standard Memory for E5-2600v4 SeriesHPE KBG L1x4GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered StandardMemory KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.HPE Standard Memory for E5-2600v3 SeriesHP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE SGB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE Optical DrivesHP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical DriveHPE 0.573 ADVD-RW JackBlack Gen9 Optical DriveHPE 1.2TB SAS 126 Enterprise (ENT) DrivesHPE 1.2TB SAS 10K rpm SFF (2.5-inch) SC Therprise 3yr Warranty Hard D		HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series805353-B21HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805353-B21HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory805358-B21KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.726720-B21Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series726720-B21HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory Kit726722-B21HP 64GB (1x46GB) Quad Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory Kit726724-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.726724-B21NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.851353-B21Memory KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.851353-B21HPE Standard Memory for E5-2600v3 Series851353-B21HPE Standard Memory for E5-2600v3 Series803026-B21KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.803026-B21KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803026-B21HPE 60ptical DrivesHP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive726536-B21HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives872479-B21HPE 1.2TB 12G SAS 10G rpm SFF (2.5-inch) SC 3ry Wty Digitally Signed Firmware HDD872479-B21HPE 1.2TB 12G SAS 10G rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive781518-B21		HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805358-821 805358-821NOTE: These Memory DIMMs are supported only on E5-2600v4 processors. Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series726720-821 726720-821HP 16GB (1x16GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit T26722-821 HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit HPE Standard Memory for E5-2600v4 Series HPE 80B (1x86B) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard Memory Kit NOTE: These Memory DIMMs are supported only on 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 NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803026-B21 Kit NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE Standard Memory for E5-2600v3 Series HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE Optical Drives HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 2.5TB 253-6520872479-821 R726537-821HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HDD HP 1.2TB 12G SAS 106 rpm SFF (2.5-inch) SC 3yr Wty Digitally Signed Firmware HDD872479-821 R515-18-21		NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.	
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit805358-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors. Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series726720-B21HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726722-B21HP 52GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726722-B21HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.726724-B21HPE Standard Memory for E5-2600v4 Series851353-B21HPE Standard Memory for E5-2600v3 Series851353-B21HPE Standard Memory for E5-2600v3 Series803026-B21HPE Standard Memory for E5-2600v3 Series803026-B21HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit803028-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803026-B21HPE Standard Memory for E5-2600v3 Series803026-B21HP 4GB (1x4GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit803028-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-B21HPE Optical Drives726536-B21HP P 0,5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9,5mm SATA DVD-RW JackBlack Gen9 Optical Drive726537-B21HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HD872479-B21HDD HDHP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive872479-B21HDD HDHP		Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series	
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Load Reduced DIMMs (LRDIMMs) for E5-2600v3 SeriesHP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726720-B21HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726722-B21HP 64GB (1x6GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE Standard Memory for E5-2600v4 SeriesHPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard851353-B21Memory KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.HPE Standard Memory for E5-2600v3 Series803026-B21HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory803026-B21KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory803028-B21KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE 0ptical DrivesHP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive726536-B21HPE 0ptical DrivesHP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive726537-B21HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives872479-B21HDDHP 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware872479-B21HDDHP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive781518-B21		•	805358-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory Kit726720-821HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory Kit726722-821HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory Kit726724-821NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.HPE Standard Memory for E5-2600v4 SeriesHPE Standard Memory for E5-2600v4 Series851353-821Moreny KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.HPE Standard Memory for E5-2600v3 Series803026-821HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory803026-821KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803026-821KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-821KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-821KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-821HPE Optical DrivesHP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive726536-821HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives726537-821HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware872479-821HDDHP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive781518-821		NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.	
HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726722-B21HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit726724-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.851353-B21HPE Standard Memory for E5-2600v4 Series851353-B21HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard851353-B21Memory KitNOTE: These Memory DIMMs are supported only on E5-2600v4 processors.HPE Standard Memory for E5-2600v3 Series803026-B21HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit803026-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-B21HP 6GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit803028-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-B21HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit803028-B21NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-B21HPE 0ptical DrivesHP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive726533-B21HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HDD HDD872479-B21HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HD 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive872479-B21		Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
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HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard Memory Kit851353-B21NOTE: These Memory DIMMs are supported only on E5-2600v4 processors. HPE Standard Memory for E5-2600v3 Series HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15 Registered Standard Memory Kit HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15 Registered Standard Memory Kit NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803026-B21HPE Optical Drives HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive726536-B21 726537-B21HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive872479-B21 781518-B21		NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.	
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HPE Standard Memory for E5-2600v3 Series803026-B21HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15 Registered Standard Memory803026-B21KitHP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15 Registered Standard Memory803028-B21KitNOTE: These Memory DIMMs are supported only on E5-2600v3 processors.803028-B21HPE Optical DrivesHP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive726536-B21HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive726537-B21HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives872479-B21HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware872479-B21HDDHP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive781518-B21			851353-B21
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		HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785069-B21
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HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 781516-B21		HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	

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HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty DS Digitally Signed Firmware HDD	870759-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware 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 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
SAS Hot Plug SFF (2.5-inch) Enterprise 512e Drives	
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware 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 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870763-B21
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 SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872487-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 SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872485-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 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware 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 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware 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 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
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	846510-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872491-B21
HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861678-B21
HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861693-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872489-B21
HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861676-B21
HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861691-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
SATA Hot Plug LFF (3.5-inch) Midline 512e Drives	
HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819203-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861750-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861752-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
SATA Hot Plug LFF (3.5-inch) Midline 512e Performance Drives	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
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
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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:	
<u>http://www.hpe.com/products/recommend</u> . 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	
HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816576-B21
HPE 1.92TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816572-B21
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State	762263-B21
HPE 960GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816568-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
HPE 480GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	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 Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	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 Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822559-B21
HPE 800GB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846434-B21
HPE 400GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	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
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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
6G 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
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HPE 1.92TB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871770-B21
HPE 1.6TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware S	SSD 869386-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware 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 Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware 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 Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware 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 Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware 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
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSE	
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	
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 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 Driv	
HPE 1.6TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	
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
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	HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware 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 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 Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware 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 Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware 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 slots 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
	HP Small Form Factor Hard Drive Blank Kit	666987-B21
HPE Networking	HP Small Form Factor Hard Drive Blank Kit 1 Gigabit Ethernet adapters	666987-B21
HPE Networking		666987-B21 647594-B21
HPE Networking	1 Gigabit Ethernet adapters	
HPE Networking	1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
HPE Networking	1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter	647594-B21 615732-B21 652497-B21
HPE Networking	1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter	647594-B21 615732-B21
HPE Networking	1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter	647594-B21 615732-B21 652497-B21 811546-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21 656596-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 530T Adapter 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21 656596-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 530T Adapter HPE Ethernet 10Gb 2-port 546SFP+ Adapter 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 665249-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 530T Adapter HPE Ethernet 10Gb 2-port 546SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 665249-B21 716591-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 540SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 530T Adapter HPE Ethernet 10Gb 2-port 546SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 665249-B21 716591-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 530T Adapter HPE Ethernet 10Gb 2-port 546SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter HPE Ethernet 10Gb 2-port 561T Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter MOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. See cables/options 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 665249-B21 716591-B21
HPE Networking	 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 332T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 530T Adapter HPE Ethernet 10Gb 2-port 546SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter MOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. See cables/options below. 	647594-B21 615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 665249-B21 716591-B21

Core Options		
	HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
	HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HPE Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
	NOTE: FlexibleLOM riser kit (P/N: 765509-B21) is required when any FlexibleLOM is selected.	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information: http://www.hp.com/go/ProLiantNICs.	
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
	NOTE: Please see the HPE InfiniBand Options for HP ProLiant and Integrity Servers	
	QuickSpecs for additional information.	
Options	NOTE: CPU 2 is required if this riser is to be installed, enables one PCIe3 slot. HP DL160 Gen9 FlexibleLOM Enablement Kit	781844-B21
	NOTE: This enablement kit is required when FlexibleLOM is selected.	
HPE Power	HPE Entry-Level Power Supplies	
Supplies	HPE 900W Standard AC 240VDC Power Input Module	775595-B21
	NOTE: This part number can only be bought standalone and is for field integration only. NOTE: RPS Backplane is mandatorily needed with this power input module.	
	HPE 900W Standard AC 240VDC RPS Power Backplane	814835-B21
	NOTE: This part number can only be bought standalone and is for field integration only. NOTE: This RPS backplane is mandatorily needed with 900W RPS input module.	
	HPE 900W Standard AC 240VDC Redundant Power Supply Kit	820792-B21
	NOTE: This Redundant Power supply kit includes 2 power supply input module and 1 backplane kit.	
	NOTE: This part number is both factory installed option and filed integrable option. NOTE: This Power supply supports both 100-240V AC and 240V DC.	
	NOTE: Supports Gold-level efficiency (92%) with a standard C14 inlet connector. No support for HPE Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers.	
	NOTE: HPE 900W Gold (Redundant) AC 240VDC Power Input Module (775595-B21/ 828734-B21) must be used with Power Backplane (814835-B21/ 828735- B21).	
	NOTE: Each Redundant Power Supply Backplane can support up to two (2) power input modules.	
	NOTE: Redundant AC Power Input Modules do not share power. Redundant AC Power Input Module #1 is the primary AC Power Input Module. Redundant AC Power Input	
		Dogo 27

Core Options		
	Module #2 is the backup AC Power Input Module.	
	NOTE: Mixing of power supplies in the same server is not supported. All power supplies musame input voltage, output rating, and efficiency rating. If non-matching power supplies are may receive an error message and/or experience operational issues with your server. NOTE: Prior to selecting a power supply option, it is highly recommended that you review y configuration in the HPE Power Advisor tool to determine the right size power supply for you configuration. The HPE Power Advisor is located at: http://www.hpe.com/info/hppowerad	installed, you our server our server
HPE Cooling Options	HP DL160 Gen9 Redundant Fan Kit NOTE: This kit includes one fan and is required for enabling fan redundancy with 1P and 2P configurations.	725587-B21

Additional Options

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

HPE Insight	HPE Insight Control	
Software	HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU	C6N27A
	HPE Insight Control including 1yr 24x7 TSU E-LTU	C6N28ABE
	HPE Insight Management Media Kit	C6N31A
	 NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple license activation key. NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate on purchase entitlement certificate. The license entitlement certificate. The license entitlement certificate. The license entitlement certificate. 	tificate must be
	Software Technical Support and Update Service. NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered set be downloaded at: <u>http://www.hp.com/go/insightupdates</u> .	eparately, or can
	NOTE: For additional license options please see the HPE Insight Control QuickSpecs.	
Embedded	HPE iLO Advanced	
Management	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU	512485-B21
	HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU	BD505A
	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
	HPE iLO Essentials	
	HPE iLO Essentials including 3yr 24x7 Tech Support and Updates 1-server LTU	BD774A
	HPE iLO Essentials including 1yr 24x7 Tech Support and Updates 1-server LTU	BD775A
	HPE iLO Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE
	HPE iLO Essentials including 1yr 24x7 Technical Support and Updates E-LTU	E6U62ABE
	HPE iLO Scale-out	
	HPE iLO Scale-Out 3yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD776A
	HPE iLO Scale-Out 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	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
Software	HPE OneView Physical Media Kit LTU	E5Y37A
	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	P8B26AAE
	NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight	

Additional Opt	ions	
	Control without additional charge. NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive). NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <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.	
High Performance	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 <u>HPE Insight Cluster Management</u> <u>Utility QuickSpecs</u>	
HPE PCIe Workload Accelerator Option		831739-B21
	HPE 3.2TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831737-B21
	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
	HPE 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775670-B21
	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 <u>HPE PCIe Workload Accelerators for ProLiant Servers</u> <u>QuickSpecs</u> for Technical Specifications and additional information.	
HPE Security	HP 1U Security Bezel Kit	664918-B21
	NOTE: Quick Release Ear option kit (P/N 774609-B21) is required for installing security bezel.	
	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 HP ProLiant Gen8 servers or earlier generation variants. NOTE: HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option. NOTE: HPE server systems can have a TPM module (of any type) installed only once. 	
	It cannot be replaced with any other TPM module.	
	HP Trusted Platform Module Option	488069-B21

Additional Options

NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version. Compatible server platforms include Gen8 and Gen9 servers. **NOTE:** HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

HPE Storage	SAS Controllers	
Controllers	HPE Smart Array Controllers	
	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
	HPE Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	820834-B21
	NOTE: Includes the HPE Smart Storage Battery.	
	HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
	HPE Smart Host Bus Adapters	
	HPE H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
	HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
	HPE Cable Options	
	HP DL160 Gen9 4LFF Smart HBA H240 SAS Cable Kit	725590-B21
	HP DL160 Gen9 8SFF Smart HBA H240 SAS Cable Kit	774621-B21
	HP DL160 Gen9 4LFF Smart Array P440 SAS Cable Kit	725593-B21
	HP DL160 Gen9 8SFF Smart Array P440 SAS Cable Kit	774619-B21
	NOTE: One of the above cables is required to be selected depending on the combination of server and storage controller. Cable option kit descriptions include the right server and storage controllers names.	
	NOTE: NHP server includes SATA cables required to connect drives to embedded B140i SATA controller.	
	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. One server can accommodate only 1 Smart Storage Battery that would suffice the requirement of all HPE Smart Array controllers.	

HPE Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see:

<u>http://www.hp.com/go/tape</u>. For hardware and software compatibility of HPE tape backup products
 <u>http://www.hpe.com/storage/BURAcompatibility</u>.
 NOTE: For Internal drives to be connected to DL servers please make sure that you order rack mount kit

Tape Drives

as well.

SAS Rack-Mount Tape Solutions

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

Additional Options

HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit	EJ014B
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HPE StoreEver 1U SAS Rack Mount Kit	AE459B
HPE 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
NOTE: Please see the HPE StoreEver MSL6480 Tape Library QuickSpecs for Technical Specifications and additional information).	

HPE Disk Backup	HPE RDX Removable Disk Backup System	
	HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A
	HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A
	HP RDX 2TB USB3.0 External Disk Backup System	E7X53B
	HP RDX+ 1TB External Backup System	B7B69B
	HP RDX+ 500GB External Backup System	B7B66B
	HPE RDX+ External Docking System	C8S07B
	HPE D3700 Enclosure	QW967A
	HPE D3600 Enclosure	QW968A
	HPE StoreOnce 5100 48TB System	BB915A
	HPE StoreOnce 3540 24TB System	BB914A
	HPE StoreOnce 3520 12TB System	BB922A
	HPE StoreOnce 3100 8TB System	BB913A
	NOTE: For the complete range of RDX drives and media see: <u>http://www.hp.com/gr</u> and software compatibility of HPE disk backup products see: <u>http://www.hp.com/sr</u> NOTE: Please see the <u>HPE RDX Removable Disk Backup System QuickSpecs</u> for ad numbers, Technical Specifications, and additional information	orage/SPOCK

HPE Storage	Emulex Fibre Channel HBAs	
Options	HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
	HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A
	HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A

Additional Options

QLogic Fibre Channel HBAs

5	
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 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W30A
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HPE D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	MOT59A
	HPE D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A

HPE Data Center HPE Advanced Series Racks Racks HPE 42U 600mm x 1075mm Advanced Pallet Rack H6J65A HPE 42U 600mm x 1075mm Advanced Shock Rack H6J66A HPE 42U 600mm x 1200mm Advanced Pallet Rack H6J67A HPE 42U 600mm x 1200mm Advanced Shock Rack H6J68A HPE 36U 600mm x 1075mm Advanced Pallet Rack H6J77A HPE 36U 600mm x 1075mm Advanced Shock Rack H6J78A HPE 14U 600mm x 1075mm Advanced Shock Rack H6J82A HPE 22U 600mm x 1075mm Advanced Pallet Rack H6J83A HPE 22U 600mm x 1075mm Advanced Shock Rack H6J84A HPE 48U 600mm x 1075mm Advanced Pallet Rack H6J87A HPE 48U 600mm x 1075mm Advanced Shock Rack H6J88A NOTE: Please see the HPE Advanced Series Racks QuickSpecs for information on additional racks options and rack specifications. **HPE Enterprise Series Racks** HP 36U 600mm x 1075mm Enterprise Pallet Rack BW895A HP 36U 600mm x 1075mm Enterprise Shock Rack BW896A HPE 42U 600mm x 1075mm Enterprise Pallet Rack BW903A HP 42U 600mm x 1075mm Enterprise Shock Rack BW904A HP 42U 600mm x 1200mm Enterprise Pallet Rack BW907A

Additional Options

	 HP 42U 600mm x 1200mm Enterprise Shock Rack HP 47U 600mm x 1075mm Enterprise Pallet Rack HP 47U 600mm x 1075mm Enterprise Shock Rack HP 47U 600mm x 1200mm Enterprise Pallet Rack HP 47U 600mm x 1200mm Enterprise Shock Rack HP 42U 800mm x 1075mm Enterprise Pallet Rack HP 42U 800mm x 1075mm Enterprise Shock Rack NOTE: Please see the HPE Enterprise Shock Racks HP 42U 600mm x 1075mm Enterprise Series Racks QuickSpecs for information on additional racks options and rack specifications. HPE Standard Series Rack HP 42U 600mm x 1075mm Standard Pallet Rack NOTE: Please see the HPE Standard Series Racks QuickSpecs for information on additional racks options and rack specifications. 	BW908A BW911A BW912A BW913A BW914A BW917A BW918A AF046A
	Rack Server installations. Please refer to your installation instructions for proper tools an people to use for any installation.	
HPE Power	HPE Basic Power Distribution Units (PDU)	
Distribution Units (PDUs)	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	H5M54A H5M56A
	HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU	H5M55A
	HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU	H5M57A
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU	H5M58A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU	H5M61A
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M59A
	HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU	H5M60A
	HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU	H5M75A
	HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU	H5M63A
	HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5- 20R/Vertical NA/JP PDU	H5M64A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M62A
	HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	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 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A
	HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF519A
	HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF511A

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 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
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 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A
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
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the <u>HPE Metered Power Distribution Units (PDU) QuickSpecs</u> 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 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6)	AF531A
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HPE Rack Mount

C19/Horizontal NA/JP PDU	
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
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 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 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 <u>HPE Metered and Switched Power Distribution Units (PDU)</u> <u>QuickSpecs</u> for information on additional options and product specifications.	
NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS)</u> web page.	
HPE Location Discovery Services	
HPE Location Discovery Services LCD8500 Kit	TL052A
NOTE: Please see the HPE Location Discovery Services QuickSpecs for information	

Consoles, KVM	HPE Location Discovery Services LCD8500 Kit	TL052A
Switches, and	NOTE: Please see the HPE Location Discovery Services QuickSpecs for information	
Keyboards	on additional options and product specifications.	
	HPE Rack Mount Consoles	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
	HPE KVM Switches	
	HP 0x1x8 G3 KVM Console Switch	AF651A
	HP 0x2x16 G3 KVM Console Switch	AF652A
	HP TAA 0x2x16 G3 KVM Console Switch	AF653A
	HP USB Remote Access Key for G3 KVM Console Switches	AF650A
	HP KVM Console USB Interface Adapter	AF628A
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
	HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
	HP 1x4 USB/PS2 KVM Console Switch	AF611A
	HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
		Page 36

Additional Options

HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
NOTE: To learn more, please visit the HPE KVM Switches web page.	
HPE USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
Rail Kits	
HP 1U Small Form Factor Easy Install Rail Kit	734807-B21
NOTE: This applies to both LFF and SFF models and it does not include cable	
management arm.	
HP 1U Cable Management Arm for Easy Install Rail Kit	734811-B21
HP 1U Short Friction Rail Kit	775612-B21
HPE Other Options	
HPE Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP ConvergedSystem Door Branding Kit	TK815A
HP ConvergedSystem Rack Light Kit	TK816A
HP ConvergedSystem Rack Side Panel 1075mm Kit	TK817A

HPE 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
	Input/Output Module Options for 1U UPS	
	HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A
	HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF491A
	HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF492A
	HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9Y76A
	HPE DirectFlow UPS Management Card	AF493A
	Power Unit (2U UPS)	
	HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
	Input/Output Module Options for 2U UPS	
	HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF486A
	HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
	HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
	HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484A
	NOTE: All Input/Output Modules support dual output outlets except the AF484A.	
	Battery Pack Options	
	HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A

Additional Options

HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HPE WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System	
QuickSpecs for information on additional options and product specifications.	
HPE Tower UPS	
HPE T750 G4 UPS Models	
HPE T750 G4 NA/JP Uninterruptible Power System	J2P85A
HPE T1000 G4 UPS Models	
HPE T1000 G4 NA/JP Uninterruptible Power System	J2P86A
HPE T1500 G4 UPS Models	
HPE T1500 G4 NA/JP Uninterruptible Power System	J2P87A
HPE Rack/Tower UPS	
HPE R/T2200 G4 UPS Models	
HPE R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
HPE R/T3000 G4 UPS Models	
HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
R1500 G4 Models	
HPE R1500 G4 NA Uninterruptible Power System	J2Q99A
R7000 Uninterruptible Power System (UPS)	
HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
R5000 Uninterruptible Power System (UPS)	
HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for	
information on additional options and product specifications.	
HPE UPS Options	
HPE R/T2200 G4 Extended Runtime Module	J2R09A
HPE R/T3000 G4 Extended Runtime Module	J2R10A
HPE 2U Rack/Tower UPS Shipping Kit	L4Q11A
NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS)</u>	
web page.	

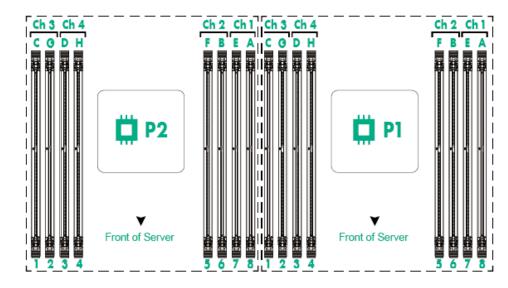
HPE 32GB microSD Mainstream Flash Media Kit	700139-B21
HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
HPE 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HP Dual 8GB microSD Enterprise Midline USB Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit

HPE Support	Foundation Care	
Services	HPE 3 year Foundation Care 24x7 DL160 Gen9 Service	U7AZ7E
	HPE 3 year Foundation Care 24x7 wDMR DL160 Gen9 Service	U7AZ8E
	HPE 3 year Foundation Care 24x7 wCDMR DL160 Gen9 Service	U7AZ9E
	Proactive Care	

Additional Options

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

Memory Population guidelines



General Memory Population Rules and Guidelines:

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

The maximum memory capacity is a function of the memory type and number of installed processors. To realize the performance memory capabilities listed in this document, HPE SmartMemory is required.

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

Memory Bandwidth and Capacity							
[DIMM Type]		Registered DI	Load Reduced (LRDIMMs)				
HPE SKU P/N	805347-B21	805349-B21	836220-B21	805351-B21	805353-B21	805358-B21	
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	
DIMM Capacity	8GB	16GB	16GB	32GB	32GB	64GB	
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	

DRAM Depth [bit]	1G	2G	1G	2G	2G	2G
•				-		
DRAM Width [bit]	x8	x4	x4	x4	x4	x4
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb	8Gb
CAS Latency	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400	2400
SLOTS THAT CAN BE POPUL	ATED					
16 slot servers	16	16	16	16	16	16
MAXIMUM CAPACITY (GB)			4	4		
	128	256	256	512	512	1024
POPULATED DIMM SPEED (M	IT/s)		4	4		•
1 DIMM Per Channel	2400	2400	2400	2400	2400	2400
2 DIMM Per Channel	2133	2133	2133	2133	2400	2400
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a	n/a

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

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

Memory Bandwidth ar	nd Capacity							
[DIMM Type]		Register	ed DIMMs (F	RDIMMs)		Load Reduced (LRDIMMs)		
HPE SKU P/N	726717- B21	726718- B21	759934- B21	726719- B21	728629- B21	726720- B21	726722- B21	726724- B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Quad Rank
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB	64GB
Voltage	Std Voltage 1.2V	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	x4	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)							
	64	128	128	256	512	256	512	1024

POPULATED DIMM SPI	EED (MT/s)							
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

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

DIMM slot and configuration diagram

DIMM slot and configuration diagrams

Basic memory slot & population diagram

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

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

CPU 1				CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 3	1	С	1	С	Chnl3			
	2	G	2	G				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 4	3	D	4	D	Chnl 4			
	4	Н	5	Н				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 2	5	F	7	F	Chnl 2			
	6	В	8	В				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 1	7	E	10	E	Chnl 1			
	8	A	11	A				

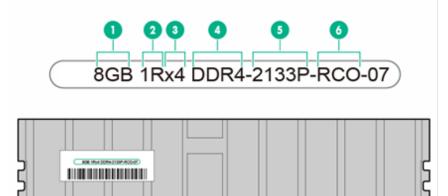
eed or	Processor Models	Supported Memory Speeds
	E5-2609v3, E5-2603v3	1600MT/s
	E5-2640v3, E5-2630v3, E5-2620v3, E5-2630Lv3 E5-2623v3	,1866MT/s
	E5-2660v3, E5-2650v3, E5-2650Lv3	2133MT/s
	E5-2609v4, E5-2603v4	1866MT/s
	E5-2630Lv4, E5-2620v4, E5-2623v4, E5-2640v4 E5-2630v4	,2133MT/s
	E5-2650Lv4, E5-2660v4,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

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

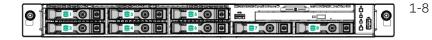
DDR4 memory options part number decoder

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

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



Storage



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		<mark>8</mark> 2 🔘	0	0 33.0	•	0 34 0	

- 8 8 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- 1-4 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drives Bays

System Unit	Dimensions	8 SFF - 1.7 x 17.1 x 23.9	9 inches (4.29 x 43.46 x 60.76 cm)			
	$(H \times W \times D)$	4 LFF - 1.7 x 17.1 x 23.9 inches (4.29 x 43.46 x 60.76 cm)				
	Weight (approximate)	Maximum: (all hard drives, power supply, and processor installed)	33.04 lb (15kg)			
		Minimum: (one hard drive, power supply, and processor installed)	22.03 lb (10kg)			
	Input Requirements	Rated Line Voltage	100 to 240 VAC			
	(per power supply)	Rated Input Current	For 550W Power Supply:			
			6.7 A (at 100 VAC)			
			3.3 A (at 100 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)			
			2153 BTU/hr (at 200 VAC)			
	Power Specifications	To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: <u>http://www.hpe.com/info/hppoweradvisor</u> - Click on the system of interest. Example: DL160 Gen9- Follow the instructions of the next screens.				
	Power Supply Output	Rated Steady-State				
	Power Supply Output	Power	For 550 W Power Supply: 550 W (at 100 VAC)			
			550 W (at 200 VAC)			
		Maximum Peak Power	For 550 W Power Supply:			
			550 W (at 100 VAC)			
			550 W (at 200 VAC)			
	System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).			
		Extended Ambient Operating Support	For approved hardware configurations, the supported system inlet range is extended to be: 5° to $10^{\circ}C$ (41° to $50^{\circ}F$) and 35° to $40^{\circ}C$ (95° to $104^{\circ}F$) at sea level with an altitude derating of $1.0^{\circ}C$ per every 175 m ($1.8^{\circ}F$ per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m ($10,000$ ft). The approved hardware			

configurations for this system are listed at the URL:

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

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

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

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

NOTE: Supports A3 and A4 extended ambient.

	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating	Minimum to be the higher (more moisture) of - 12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
(non-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	declared average bystar (LpAm) when the produ Noise emissions were m	A-Weighted sound power levels (LWAd) and nder position A-Weighted sound pressure levels act is operating in a 23°C ambient environment. easured in accordance with ISO 7779 (ECMA 74) nce with ISO 9296 (ECMA 109).
	Idle	
	LWAd	Entry 5.1 B
		Base 5.2 B
		Performance 5.0 B
	LpAm	Entry 34.2 dBA
		Base 35.9 dBA
		Performance 34.9 dBA
	Operating	
	LWAd	Entry 5.3 B
		Base 5.3 B
		Performance 5.6 B

	Emissions Classification (EMC)	LpAm FCC Rating Normative Standards	Entry 36.3 dBA Base 36.2 dBA Performance 39.7 dBA Class A CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22; K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1			
		sample (type) testing, ev	ance to cited product specifications is based on valuation, or assessment. This product or family bear the appropriate compliance logos and			
HPE Dynamic Smart	Number of PCI links	Four				
Array B140i	PCI link rate	4Gb/s				
Controller	Storage protocol support	SATA				
	SAS/SATA peak data transfer rate	6Gb/s				
	Number of SAS/SATA links	s 10 links				
	SAS/SATA connectivity	2x4 connectors; 2x1 connectors				
	Expander support	No				
	Drives supported (max)	Up to 10 Internal Drives				
	RAID support	0, 1, 10, 5 SATA				
	Software management	HPE SSA, SMH, SIM				
	Warranty	Server warranty				
	HPE Secure Encryption license	Not Supported				
	HPE SmartCache License	Not Supported				
	HPE Smart Storage Administrator	Supported				
HPE Embedded Dual	Network Interface	10Base-T/100Base-TX/	1000Base-TX			
Port 361i Adapter	Compatibility	IEEE 802.3 10Base-T				
		IEEE 802.3ab 1000Base	-T			
		IEEE 802.3u 100Base-T	X			
		IEEE 1588, IEEE 802.1AS				
		IEEE 802.3az - Energy E	fficient Ethernet (EEE)			
	Data Transfer Method	PCI Express v 2.0, 5.0 GT/s, two lanes (x2)				
	Controller	Intel 1350 Powerville				
	Network Transfer Rate	10Base-T (Half-Duplex)				
		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			
			x) 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 10/100/1000 Base-TX	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) Category 5 or higher UTP; up to 328 ft (100 m)	
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://www.hpe.com/red	cycle	
		treatment information for This information (product Hewlett Packard Enterpris recyclers and other WEEE	2002/95/EC) requires manufacturers to provide each product type for use by treatment facilities. disassembly instructions) is posted on the se web site. These instructions may be used by treatment facilities as well as Hewlett Packard s who integrate and re-sell Hewlett Packard	

http://www.hpe.com/recycle

Summary of Changes

Date	Version History	Action	Description of Change	
27-Mar-2017	From Version 22 to 23	Added	Added new Hard Drives.	
17-Feb-2017	From Version 21 to 22	Changed	HPE Memory section under Core Options was revised.	
13-Feb-2017	From Version 20 to 21	Added	Added new HDD and SSD offering to the HPE Drives section.	
		Changed	HPE InfiniBand, HPE Converged Infrastructure Management Software, and HPE USB and SD Options were revised.	
		Removed	SKUs 769503-B21, 769504-B21, and 769505-B21 were removed from the Pre-configured Models section.	
			Obsolete SKUs were removed from the HPE Processors section.	
28-Nov-2016	From Version 19 to 20	Added	Added new Hard Drives offering.	
		Changed	Maximum Internal Storage and HPE Tape Backup were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
28-Oct-2016	From Version 18 to 19	Removed	Obsolete Hard Drives were removed.	
26-Sep-2016	From Version 17 to 18	Added	Added new 10TB SATA LFF hard drives offering.	
		Changed	Maximum Internal Storage, HPE Storage Options, and HPE Disk Storage Systems were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
10-Jun-2016	From Version 16 to 17	Removed	HPE Dual 32GB microSD Enterprise Midline USB Kit was removed from the QuickSpecs.	
6-Jun-2016	From Version 15 to 16	Added	Added new HDD offering to the HPE Drives section. Added new options to the HPE PCIe Workload Accelerator Options, HPE Disk Backup, and HPE Disk Storage Systems.	
		Changed	Memory, Memory Protection, Interfaces, and HPE Converged Infrastructure Management Software were revised.	
6-May-2016	From Version 14 to 15	Changed	Maximum Internal Storage, Upgradeability, Memory, and Technical Specifications sections were revised.	
8-Apr-2016	From Version 13 to 14	Changed	HPE Processors section was revised.	
31-Mar-2016	From Version 12 to 13	Added	Added new HPE Smart Memory 2400 MHz memory, Intel Xeon E5-2600v4 processor support, new HPE Trusted Platform Module (TPM) 2.0, new 900W AC/ 240VDC power supply, and new HDD offerings.	
		Changed	Maximum Internal Storage, Power Supplies, Upgradeability, Embedded Management, Security, Service and Support, Pre- configured Models, and Memory sections were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
16-Feb-2016	From Version 11 to 12	Added	New HDD offering was added to HPE Drives.	
		Changed	HPE Power Supplies, HPE Data Center Racks, and HPE Power Distribution Units (PDUs) were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
17-Dec-2015	From Version 10 to 11	Added	Smart Buy models were added to the NA version.	
1-Dec-2015	From Version 9 to 10	Added	New HDD offering was added to HPE Drives.	
			New options added to HPE PCIe Workload Accelerator Options, HPE Disk Backup, and HPE Disk Storage Systems.	
		Changed	On System Management Chipset, Maximum Internal Storage, Embedded Management, and Server utilities were revised.	
			Product images were updated.	

Summary of Changes

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



Summary of Changes

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

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