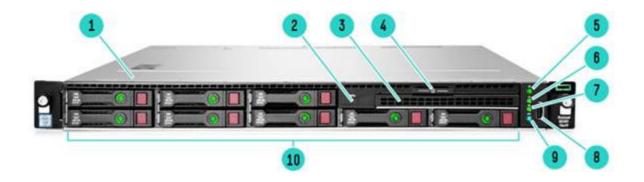
Overview

HPE ProLiant DL160 Generation9 (Gen9)

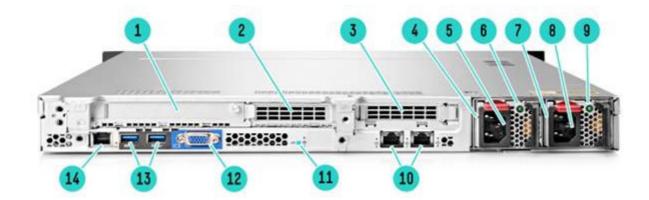
The HPE ProLiant DL160 Gen9 is the next generation 2P 1U value server replacing DL360e Gen8. It delivers the right balance of performance, storage, reliability, manageability and efficiency in a dense and compact chassis, to meet the needs of a diverse set of customers- from SMBs and service providers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



Front View

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

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

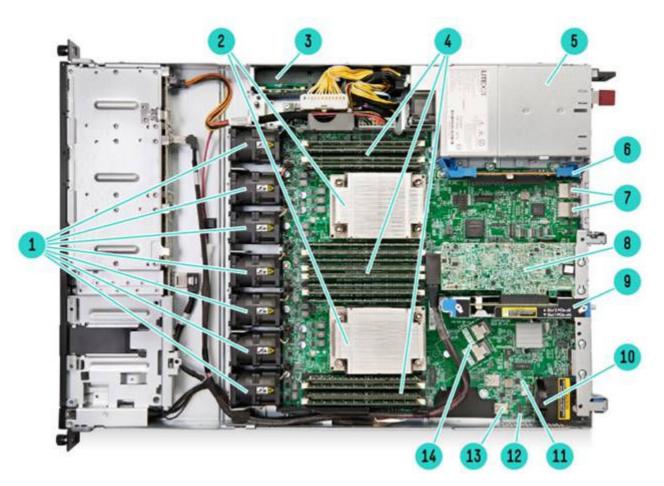


Overview

Rear View

- 1. PCIe3 slot 1 (primary, associated with processor 1)
- 3. PCIe3 slot 3 (secondary, associated with processor 2)
- 5. Power supply 1 Power Connector (Optional)
- 7. Power supply 2 bay
- 9. Power Supply 2 LED
- 11. Unit ID LED
- 13. USB3.0 connectors

- 2. PCIe3 slot 2 (primary, associated with processor 1)
- 4. Power supply 1 bay
- 6. Power supply 1 LED (Optional)
- 8. Power supply 2 power connector
- 10. Embedded 2x1GbE network adapter
- 12. Video Connector
- 14. Dedicated iLO connector (optional)



Overview

Internal View

- 1. Hot Swappable fans (up to 7)
- 3. HPE Smart Storage Battery (optional)
- Entry level power supply bay (1x900W shown)
 NOTE: RPS (with one module) shown in the picture above.
- 7. Embedded 2x1GbE network adapter
- 9. Primary PCIe riser (2 PCIe3 slots associated with CPU1)
- 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)
- 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

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

Standard Features

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

Processor	Model	CPU	Cores	L3 Cache	Power	QPI	DDR4 Hz
Up to two of the		frequency		<u> </u> '	'	<u> </u>	ļ
following depending on	E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
depending on model	E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
Model	E5-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
	E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
	E5-2630v3	2.4GHz	8	20MB	85W	8.0GT/s	1866
	E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
	E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
	E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
	E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
	E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
	E5-2695v4	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	2.4GHz	10	25MB	85W	8.0GT/s	2133
	E5-2630Lv4	1.8GHz	10	25MB	55W	8.0GT/s	2133
	E5-2630LV4	2.6GHz	4	10MB	85W	8.0GT/s	2133
	E5-2623v4 E5-2620v4	2.6GHZ 2.1GHz	8	20MB	85W	8.0GT/s	2133
	E5-2620V4 E5-2609v4	1.7GHz	8	20MB	85W 85W	6.4GT/s	1866
			6				
	E5-2603v4	1.7GHz	<u> </u>	15MB	85W	6.4GT/s	1866
Chipset	Intel® C610 Serie	•					
One of the	Intel® E5-2600v3	3 Processor F	amily				
following	Intel® E5-2600v4	4 Processor F	amily				
depending on model	NOTE: For more		-	1 Intel® chips	ets, please s	see the follow	vina URL:
	http://www.intel						
On System Management Chipset	HPE iLO (Firmwa NOTE: Read and						
Memory One of the following depending on model	Type: HPE SmartMemo DDR4 Registereo DIMM Slots Availa	d (RDIMM) or	r Load Re	•		ocessor, 4 ch	annels per proces
moaei		1010		•	er channel)		
	Maximum Capac (LRDIMM)	city 1TB		•	,	@2400MHz)	

slot

Standard Features

Maximum Capacity (RDIMM)	512GB	(16 x 32GB RDIMM @2400MHz)			
Advanced ECC		ECC uses single device data correction to detect and correct all multibit error that occurs within a single DRAM chip.			
Online Spare	Memory online spare mode detects a rank that is degrading and switche operation to the spare rank.				
Mirroring mode	failover in ca	rroring inter-socket stores a copy of memory with dynamic ase of failure. Once a DIMM in a mirrored set is detected as hirror failover uses its mirrored DIMM.			
	(RDIMM) Advanced ECC Online Spare	(RDIMM) Advanced ECC Advanced E single and a Online Spare Memory onl operation to Mirroring mode Memory mir failover in ca			

Network HPE Ethernet 1Gb 2-Port 361i Adapter Controller

Expansion Slots

CPU1 PCIe riser slots	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
	1	PCIe 3.0	x16	x16	Full-height, half-length slot	Processor 1
	2	PCIe 3.0	x8	x8	Low profile	Processor 1

NOTE: Bus Width data indicates the number of physical electrical lanes running to the connector.

CPU 1 FlexibleLOM riser	Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
slots	1	Flexible LOM	x8	x8	Flexible LOM	Processor 1 (can only be used for FlexibleLOMs)
	2	PCIe 3.0	x8	x8	Low profile slot	Processor 1

NOTE: This riser is mandatory for 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 populating slots on CPU2 riser, second processor must be installed. **NOTE:** Only one of the CPU1 PCIe risers can be selected in any given configuration. **NOTE:** One of the CPU 1 risers is mandatory for all configurations.

Storage	Entry Models	HPE Dynamic Smart Array B140i Controller
Controller		HPE H240 FIO Smart Host Bus Adapter
One of the	Base Models	HPE H240 FIO Smart Host Bus Adapter
following depending on	Performance Models	HPE Smart Array P440/4G Controller
model	NOTE: B140i provides supp	port for up to 8 SATA drives, data transmission speeds up to 6Gb/s and

Standard Features

supports RAID 0, 1 & 5.	
NOTE: H240 provides support for up to 8 SAS/SATA drives, data transmission	speeds up to
12Gb/s and supports RAID 0, 1 & 5.	
NOTE: P440 provides support for up to 8 SAS/SATA drives, data transmission	speeds up to
12Gb/s.	

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

Maximum Internal Storage		CAPACITY	CONFIGURATION
One of the following	Hot Plug SFF SAS	16.0TB	8 x 2TB
depending on model	Hot Plug SFF SATA	16.0TB	8 x 2TB
	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 HPE 550W FIO Power Supply

depending on

model

One of the HPE 900W Redundant Power Supply following

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

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

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

Standard Features

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

System Fans		Non-redundant	Redun			
One of the	1P model	3 fans	4 far			
following		Non-redundant	Redund			
depending on model	2P model	6 fans	7 fan			
	configurations.	n kit (PN: 725587-B21) can be bought separately if red ed with 2P configurations are included in "-B21" proce				
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-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.					
Operating	Microsoft Windows Server	-				
Systems and Virtualization	Red Hat Enterprise Linux (RHEL)					
Software Support	SUSE Linux Enterprise Server (SLES)					
for ProLiant	VMware					
Servers	<u>ClearOS</u>					
	NOTE: ClearOS allows you to build a fully functional server that is just right for you at no upfront cost. It is available via CTO preload, Intelligent Provisioning or via download. For more information on ClearOS, please visit <u>http://www.hpe.com/servers/clearos</u> .					
	NOTE: For more information on the Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: <u>http://www.hpe.com/info/ossupport</u> and our <u>driver download page</u> .					
Upgradeability One of the following depending on model	up to 105W. Up to 16 DIMM slots available NOTE: To take advantage of	rom E5-2600v3 to E5-2600v4 is supported for proces				

Standard Feature	25
	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	ACPI 2.0b Compliant
Standard	PCIe 3.0 Compliant
Compliance	PXE Support
	WOL Support
	Microsoft® Logo certifications
	USB 3.0 Support
	ASHRAE A3
	NOTE: Supports A3 extended ambient temperature.
	NOTE: Refer to technical specifications section for more details.
Graphics	Integrated Matrox G200eH2 video standard
	 1280 x 1024 (32 bpp)
	• 1920 x 1200 (16 bpp)
HPE Server UEFI/Legacy ROM	Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot Mode. NOTE: The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <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 Support for > 2.2 TB (using GPT) boot drives USB 3.0 Stack Embedded UEFI Shell Mass Configuration Deployment Tool using RESTful API for iLO 4 PXE boot support for IPv6 networks Boot support for option cards that only support a UEFI option ROM Network Stack configurations
	NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI. NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen9 Server.

Standard Features

Form Factor	1U Rack form	factor
One of the following	8SFF and 4LFI	F version:
depending on model	1.7" (4.3cm) He	eight 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 <u>http://www.hpe.com/info/ilo</u> .
	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 <u>http://www.hpe.com/info/restfulapi</u> .
	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning.
	Embedded Remote Support	The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at <u>http://www.hpe.com/info/insightonline/explore</u> .
Server utilities	Smart Update	Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at http://www.hpe.com/servers/smartupdatemanager.
	HPE Systems Insight Manager (HPE SIM)	HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at http://www.hpe.com/servers/hpsim.

Standard Features

	Scripting Tool Kit and Windows PowerShell	Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at http://www.hpe.com/servers/proliant/stk or http://www.hpe.com/servers/powershell.
	RESTful Interface Tool	RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at http://www.hpe.com/info/resttool .
	HPE iLO Mobile Application	Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: http://www.hpe.com/info/ilo/mobileapp.
	HPE Insight Online	HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at <u>http://www.hpe.com/info/insightonline/explore</u> .
Security	Power-on pas Serial interface Administrator's TPM 2.0 TPM 2.0 NOTE: TPM 1 UEFI	e control
Warranty	a worldwide ne diagnostic sup for software ar Enhancements services or cus year warranty; NOTE: Server with next busin use of Custom Mandatory CS result when cu are also desig may choose to charge. Additio support is avail	s covered by a global limited warranty and supported by HPE Services and etwork of HPE Authorized Channel Partners resellers. Hardware oport and repair is available for three years from date of purchase. Support nd initial setup is available for 90 days from date of purchase. s to warranty services are available through HPE Pointnext operational stomized service agreements. Hard drives have either a one year or three refer to the specific hard drive QuickSpecs for details. r Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support ness day response. Warranty repairs may be accomplished through the ner Self Repair (CSR) parts. These parts fall into two categories: 1) R parts are designed for easy replacement. A travel and labor charge will ustomers decline to replace a Mandatory CSR part; 2) Optional CSR parts ned for easy replacement but may involve added complexity. Customers o have Hewlett Packard Enterprise replace Optional CSR parts at no onal information regarding worldwide limited warranty and technical liable at:

Optional Features

Embedded Management	iLO Essentials	HPE iLO Essentials is the preferred license for small and medium business that offers full remote server management capabilities for small and medium business via the Integrated Remote Console (IRC), virtual media, and e-mail based alerts. Learn more about HPE iLO Essentials at http://www.hpe.com/servers/iLO/essentials.
	iLO Scale- Out	HPE iLO Scale-Out is the preferred license built for web hosting, cloud service providers, and high performance computing data centers, managing massive scale out environments for the DL 100 and 10 series servers, not available for ML servers. This license offers sophisticated scripting tools that provides remote access through Text Console via SSH, Dynamic power capping, Email-based Alerting and proactive notifications. For more information, visit <u>http://www.hpe.com/servers/iLO/scale-out</u> .
	iLO Advanced	HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at <u>http://www.hpe.com/servers/iloadvanced</u> .
Server Management	HPE Insight Control	HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see <u>http://www.hpe.com/info/insightcontrol</u> .
Rack and Power Infrastructure	HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HPE Rack and Power infrastructure solutions - rack infrastructure, power protection and management, performance optimized data centers (PODs) - are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at <u>HPE Rack and Power Infrastructure</u> .	

Optional Feature HPC Interconnects	NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HPE Cluster Platform product portfolio. These high-speed interconnects are fully supported by Hewlett Packard Enterprise when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPEC Clusters with InfiniBand Interconnects: <u>https://www.hpe.com/info/hpc/solutions</u> .
Storage Software	Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than Hewlett Packard Enterprise storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities. Storage software that gets the job done:
	 Data Protection and Recovery Software Whether you're a large enterprise or a smaller business, Hewlett Packard Enterprise data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity. Data Archive and Migration Software Hewlett Packard Enterprise storage software enables you to comply with data retention and retrieval requirements, improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage. Storage Resource Management Software (SRM) Hewlett Packard Enterprise storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments. Data Replication Software Hewlett Packard Enterprise offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting. Storage Device Management Software Maximize your investment in Hewlett Packard Enterprise storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management. HPE StoreVirtual VSA With HPE StoreVirtual VSA you can use the power of virtualization to create a virtual array within your host server. Manage it as a single pool of shared storage capacity and scale it to match your evolving needs. HPE ProLiant Gen9 servers include a 3-year limited license for HPE StoreVirtual VSA software during server setup within Intelligent Provisioning. More information, instructional videos, and free console management software are available at http://www.hpe.com/info/vsa1TE.
ClearOS	HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive web based

graphical user interface that provides a cloud-like experience on- premise, and an

Optional Features

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

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

Service and Support

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

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

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

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

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

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

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

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

Parts and

Hewlett Packard Enterprise will provide Hewlett Packard Enterprise-supported

Service and Support

Materials

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

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

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

Related Services HPE Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf

HPE Installation and Startup Service

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

HPE Technology Services Support Credits

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

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

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

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

The Hewlett Packard Enterprise Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.

Service and Support

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

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

Pre-configured Models

Entry Models		Base Models		
[SKU Number]	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@	•	Intel® Xeon® E5-2620v4	
Number of Processors	One		One	
Memory	8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 1866 MHz in this model.		16GB (1x16GB Registered DIMMs, 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		61i Adapter Network Interface	
Storage Controller	HPE Dynamic Smart Array B140i	HPE H240 FIO Smart Host Bus Adapter	HPE H240 FIO Smart Host Bus Adapter	
Hard Drive	None ship standard		ip standard	
Internal Storage	4 LFF HDD Bays	8 SFF HDD Bays	8 SFF HDD Bays	
Optical Drive Bay		1; (Optional: DV	nal: DVD-ROM, DVD-RW)	
Optical Drive	Optiona	I Slim Optical Bay (SA	TA DVD-RW/ROM Optical Drive)	
PCI-Express Slots	2 Standard (1-FH/HL, 1-LP) PCIe 3.0			
Power Supply		(1) HPE 550W	FIO Power Supply	
Fans	3 hot swap fans,	non-redundant	4 hot swap fans, redundant	
Management			sioning (standard), iLO Essentials (optional), or DL), iLO Advanced (optional)	
Form Factor		Rack (1U), HPE	Easy Install Rails	
Warranty	Server Warranty inc	er Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.		

Country Code	xx1 = B21
Кеу	xx1 = 291
	xx1 = AA1

Worldwide Japan PRC

Configuration Information - Factory Integrated Models

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

1. Factory Integrated Models must start with a CTO Server.

2. FIO indicates that this option is only available as a factory installable option.

3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the server.

4. Some options may not be integrated at the factory. Contact your local sales representative for additional information.

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

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

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

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

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

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

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

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

Configuration Information - Factory Integrated Models

	 HPE memory options from previous generation servers are not qualified or warranted with Hewlett Packard Enterprise Gen9 systems. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9. If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available. Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: http://www.hpe.com/go/ddr4config.
HPE Power Supplies	Select one or more power supplies from Core Options-Power Supplies section below.
Cappino	 Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <u>http://www.hpe.com/info/hppoweradvisor</u>.
	• By RPS Enablement Kit power options, mixing of power supplies in the same RPS enablement kit is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.
Step 3: Choo	se Additional Factory Integratable Options
HPE Unique	Select one or more Unique options from Core Options section below.
Options	 This section may contain FIO options, please see the Unique options section below.
	 FIO indicates that this option is only available as a factory installable option.
HPE I/O Expansion	Select one or more drives from Core Options-HPE Drives section below.
Options	 To take advantage of the additional PCI slot upgrade, the second processor must be installed.
	 This section may contain FIO options, please see HPE I/O Expansion Options section below.
	FIO indicates that this option is only available as a factory installable option.
HPE Drives	Select one or more drives from Core Options-HPE Drives section below.
	• The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.
	 Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details. The HPE ProLiant Gen9 Smart Storage solutions are equipped with re-designed
	Small Form Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HPE Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove."
HPE FlexibleLOM	Select a FlexibleLOM from Core Options-Networking section below.

Configuration Info	rmation - Factory Integrated Models
	 Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped. For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
	 Please see the QuickSpecs for Technical Specifications and additional information: http://www.hpe.com/go/ProLiantNICs.
HPE Networking	Select a standup NIC adapter from Core Options-Networking section below.
	 Please see the QuickSpecs for Technical Specifications and additional information: <u>http://www.hpe.com/go/ProLiantNICs</u>. These options are upgradeable and can be changed from the original configuration after the server is shipped. For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
HPE Storage	Select one or more Storage options from Additional Options section below.
Controllers	 The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22. This section may contain FIO options, please see HPE Storage Controllers section below. FIO indicates that this option is only available as a factory installable option.
HPE I/O	Select one or more Riser Kit options from Core Options section below.
Expansion Options	 To take advantage of the additional PCI slot upgrade, the second processor must be installed. This section may contain FIO options, please see HPE I/O Expansion Options section below. FIO indicates that this option is only available as a factory installable option.
HPE Cooling	Select one or more Fan Kits from Core Options section below.
Options	 This section may contain FIO options, please see HPE Cooling Options section below. FIO indicates that this option is only available as a factory installable option.
HPE Rail Kits	Select one type of rail kit from Additional Options section below.
	 Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server. To assist in the installation of the server into the rack, an optional installation tool is available by contacting your local services representative (p/n 695539-001). See Hewlett Packard Enterprise Rack Options in Additional Options section of this QuickSpecs for more rack kit choices. CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

Core Options

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

HPE Unique Options	HP DL180 Gen9 Dedicated iLO Management Port Kit HP DL160 Gen9 CPU1 Riser FIO Kit NOTE: This riser enables two PCIe3 slots. Either of this riser kit and FlexibleLOM riser kit (781844-B21) is mandatory for all configurations.	725581-B21 725585-B21
	HPE DL160 Gen9 Low Profile PCIe CPU2 Riser Kit NOTE: CPU 2 is required if this riser is to be installed, enables one PCIe3 slot.	725586-B21
	HP DL160 Gen9 Quick Release Ear FIO Kit NOTE: This option kit is required for Security Bezel.	774609-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 Legacy FIO Mode Setting NOTE: UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.	758959-B22
	HP AHCI-Enable FIO Setting NOTE: This needs to be selected when Advanced Host Controller Interface mode is required on B140i controller.	801845-B21

HPE Processors E5-2600v4 series Processors

HPE DL160 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) 801288-L21 FIO Processor Kit 801289-B21 Processor Kit 801289-B21 Processor Kit 801289-B21 Processor Kit 801289-B21 HPE DL160 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) 801289-B21 FIO Processor Kit 801289-L21 HPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) 801290-B21 Processor Kit 801290-L21 FIO Processor Kit 801290-L21 HPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) 801291-B21 Processor Kit 801291-B21 Processor Kit 801291-L21 FIO Processor Kit 801291-L21 HPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) 801287-B21 Processor Kit 801287-B21 Processor Kit 801287-B21 Processor Kit 801287-L21	HPE DL160 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	801288-B21
Processor KitHPE DL160 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W)801289-L21FIO Processor KitHPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W)801290-B21Processor KitHPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W)801290-L21FIO Processor KitHPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W)801291-L21FIO Processor KitHPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W)801291-B21Processor KitHPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W)801291-L21FIO Processor KitHPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W)801287-B21Processor KitHPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W)801287-B21		801288-L21
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Processor Kit HPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) 801287-L21		801291-L21
		801287-B21
		801287-L21

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

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

Core Options		
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21
	HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21
	HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726724-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.	
	HPE Standard Memory for E5-2600v4 Series	
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard Memory Kit	851353-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v4 processors.	
	HPE Standard Memory for E5-2600v3 Series	
	HPE 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803026-B21
	HPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803028-B21
	NOTE: These Memory DIMMs are supported only on E5-2600v3 processors.	
HPE Optical	HPE 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
Drives	HPE 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
	HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
	HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	781518-B21
	HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	785069-B21
	HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
	HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	781516-B21
	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	785067-B21
	HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870759-B21
	HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870757-B21
	HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD	759212-B21
	HPE 450GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD	759210-B21
	HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21

Core Options

SAS Hot Plug SFF (2.5-inch) Enterprise 512e Drives

HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	881457-B21
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e HDD	791034-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870763-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e HDD	748387-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	832514-B21
SAS Hot Plug SFF (2.5-inch) Midline 512e Drives	
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765464-B21
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HPE 600GB SAS 12G Enterprise 15K LFF (3.5in) SC 3yr Wty HDD	765424-B21
HPE 450GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty HDD	737394-B21
HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty HDD	737261-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846514-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872487-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	818367-B21
HPE 3TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846528-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872485-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	818365-B21
HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed	846524-B21
Firmware HDD	
SAS Hot Plug LFF (3.5-inch) Midline 512e Drives	010001 001
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819201-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861754-B21
SAS Hot Plug LFF (3.5-inch) 512e Performance Drives	
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861756-B21
SAS Hot Plug LFF (3.5-inch) Midline 512e Helium Drives	
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857644-B21

HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	861590-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	655710-B21
SATA Hot Plug SFF (2.5-inch) Midline 512e Drives	
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765455-B21
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765453-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846510-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872491-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861678-B21
HPE 3TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	861693-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872489-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861676-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861691-B21
SATA Hot Plug LFF (3.5-inch) Midline 512e Drives	
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819203-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861750-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861752-B21
SATA Hot Plug LFF (3.5-inch) Midline 512e Helium Drives	
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857648-B21
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	861594-B21
SATA Non-hot Plug LFF 7.2K (3.5-inch) Standard Drives	
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801888-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801884-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD	801882-B21
SSD Selection	
To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located here: http://www.hpe.com/products/recommend.	
12G SAS Hot Plug SFF (2.5-inch) Read Intensive Solid State Drives	
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870144-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872394-B21

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

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

HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875498-B21
HPE 150GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed	875317-B21
Firmware SSD 6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
· · · ·	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877788-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872352-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875478-B21
HPE 1.6TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD	804631-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877782-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872348-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875474-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877776-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872344-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875470-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	880295-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875483-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives	
	075400 001
HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875492-B21
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875490-B21
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21
6G SATA Hot Plug LFF (3.5-inch) Write Intensive Solid State Drives	
HPE 1.6TB SATA 6G WI LFF SCC DS SSD	872365-B21
HPE 800GB SATA 6G WI LFF SCC DS SSD	872361-B21
HPE 400GB SATA 6G WI LFF SCC DS SSD	872357-B21
6G SATA Hot Plug LFF (3.5-inch) Read Intensive Solid State Drives	
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877760-B21
HPE 1.6TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	869388-B21
HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877754-B21

Core Options

HPE Ethernet 10Gb 2-port 546SFP+ Adapter HPE Ethernet 10Gb 2-port 560SFP+ Adapter HPE Ethernet 10Gb 2-port 561T Adapter	665249-B21 716591-B21
	779793-B21
	656596-B21
HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
10 Gigabit Ethernet adapters	
HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
1 Gigabit Ethernet adapters	
HPE Small Form Factor Hard Drive Blank Kit	666987-B21
HPE Large Form Factor Hard Drive Blank Kit	666986-B21
Hard Drive Blank Kits	
	0,0,00 DE1
	878783-B21
	835565-B21
	835563-B21
Firmware SSD	
Firmware SSD HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed	872346-B21
HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed	875472-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed	872350-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed	875476-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877784-B21
HPE 1.6TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD	804634-B21
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed	875480-B21
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877790-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives	
HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	869380-B21
Signed Firmware SSD	877748-B21
	HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD GG SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 1.6TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HPE 340GB SATA 6G Read Intensive 3yr Wty M.2 Kit HPE 340GB SATA 6G Read Intensive 3yr Wty Dual M.2 Kit HPE 340GB SATA 6G Read Intensive 3yr Wty Dual M.2 Kit HPE Universal SATA HHHL 3yr Wty M.2 Kit NOTE: M.2 drives go in PCle slots and use B140i SATA controller only. Hard Drive Blank Kits HPE Large Form Factor Hard Drive Blank Kit HPE Small Form Factor Hard Drive Blank Kit HPE Small Form Factor Hard Drive Blank Kit HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 2-port 361T Adapter HPE Ethernet 1Gb 2-port 360T Adapter HPE Ethernet 1Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 530SFP Adapter HPE Ethernet 10Gb 2-port 530T Adapter

Core	Options
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core options		
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required	
	per each adapter.	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased	
	separately. See cables/options below.	
	25 Gigabit Ethernet adapters	
	HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter	817762-B21
	HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
	FlexibleLOM Adapters	
	HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HPE 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 FlexFabric 10Gb 2-port 556FLR-T Adapter	794525-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
	HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-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.hpe.com/servers/ProLiantNICs.	
HPE InfiniBand	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	HPE 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.	
HPE I/O	HP DL160 Gen9 CPU1 Riser FIO Kit NOTE: This riser enables two PCIe3 slots and either of FlexibleLOM riser	725585-B21
Expansion Options	kit (PN: 781844-B21) or CPU1 riser FIO kit is required in every	
options	configuration.	
	HPE DL160 Gen9 Low Profile PCIe CPU2 Riser Kit	725586-B21
	NOTE: CPU 2 is required if this riser is to be installed, enables one PCIe3	
	slot.	
	HP DL160 Gen9 FlexibleLOM Enablement Kit NOTE: This enablement kit is required when FlexibleLOM is selected.	781844-B21
	NOTE. This enablement kit is required when Plexible Owns selected.	
HPE Power	HPE Entry-Level Power Supplies	
Supplies	HPE 550W Standard FIO Power Supply Kit	730941-B21

NOTE: This is a Factory Installed Option (FIO) only. NOTE: Supports Silver-level efficiency (89%) with a standard C14 inlet connector. No support for HPE Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers.	
HPE 900W Standard AC 240VDC Power Input Module FIO Kit	828734-B21
NOTE: This is a Factory Installed Option (FIO) only.	
NOTE: RPS Backplane is mandatory to be chosen with this power input	
module.	
HPE 900W Standard AC 240VDC RPS Power Backplane FIO Kit	828735-B21
NOTE: This is a Factory Installed Option (FIO) only.	020700 D21
NOTE: This RPS backplane is mandatory to be chosen along with 900W RPS	
input module.	
HPE 900W Standard AC 240VDC Power Input Module	775595-B21
·	110000 D21
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
•	014000 021
NOTE: This part number can only be bought standalone and is for field integration only.	
NOTE: This RPS backplane is mandatorily needed with 900W RPS input	
module.	
HPE 900W Standard AC 240VDC Redundant Power Supply Kit	820792-B21
NOTE: This Redundant Power supply kit includes 2 power supply input	
module and 1 backplane kit.	
NOTE: This part number is both factory installed option and filed integrable	
option.	
NOTE: This Power supply supports both 100-240V AC and 240V DC.	
NOTE: Supports Gold-level efficiency (92%) with a standard C14 inlet	
connector. No support for HPE Power Discovery Services. Only compatible	
with select HPE ProLiant Gen9 Essential servers.	
NOTE: HPE 900W Gold (Redundant) AC 240VDC Power Input Module	
(775595-B21/ 828734-B21) must be used with Power Backplane (814835- B21/ 828735- B21).	
NOTE: Each Redundant Power Supply Backplane can support up to two	
(2) power input modules.	
NOTE: Redundant AC Power Input Modules do not share power.	
Redundant AC Power Input Module #1 is the primary AC Power Input	
Module. Redundant AC Power Input Module #2 is the backup AC Power	
Input Module.	
NOTE: Mixing of power supplies in the same server is not supported. All power	^r supplies
must be of the same input voltage, output rating, and efficiency rating. If non-ma	
power supplies are installed, you may receive an error message and/or experie	ence
operational issues with your server.	
NOTE: Prior to selecting a power supply option, it is highly recommended that your server configuration in the HPE Power Advisor tool to determine the right set of the second	
supply for your server configuration. The HPE Power Advisor too to determine the right's	
http://www.hpe.com/info/hppoweradvisor.	

Core Options

HPE Cooling
OptionsHP 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 Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU	C6N36A	
	HPE Insight Control Upgrade from iLO Advanced including 1yr 24x7 Support E-LTU	C6N38ABE	
	 NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24x7 HPE Software Technical Support and Update Service. NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered 		
	separately, or can be downloaded at: https://www.hpe.com/info/insightmanagement.		
	NOTE: For additional license options please see the HPE Insight Control Q	uickSpecs.	
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	

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 PCIe Workload	HPE Read Intensive PCIe Workload Accelerator HPE 6.4TB Read Intensive-2 FH/HL PCIe Workload Accelerator	831739-B21
	NOTE: For additional license kits please see the HPE Insight Cluster Management Utility QuickSpecs.	
	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.	
High Performance Clusters	HPE Cluster Management Utility HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU HPE Insight Cluster Management Utility Media	QL803B BD476A BD477A
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	
	ordered separately, or can be downloaded at: http://www.hpe.com/info/hpeoneview.	
	NOTE: Licenses ship without media. The HPE OneView Media Kit can be	
	and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).	
	licensed as part of HPE OneView Advanced and provides multi-server OS	
	use HPE Insight Control without additional charge. NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is	
	NOTE: Full licenses of HPE OneView Advanced also provide the right-to-	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
	HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B25A P8B26AAE
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
	HPE OneView Advanced (without HPE iLO Advanced)	
	HPE OneView Physical Media Kit LTU	E5Y37A
	HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
Software	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
Infrastructure Management	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE Converged	HPE OneView Advanced (with HPE iLO Advanced)	
	HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Tracking LTU	BD779A
	E-LTU	
	LTU HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty	BD778AAE
	HPE iLO Scale-Out 1yr 24x7 Tech Support and Updates Flexible Quantity	BD778A
Additional Option	S	

Additional Options			
Accelerator Options	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 Light Endurance (LE) PCIe Workload Accelerators	831733-B21	
	HPE 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21	
	NOTE: Please see the HPE PCIe Workload Accelerators for ProLiant	TIGOTE DET	
	Servers QuickSpecs for Technical Specifications and additional information.		
HPE Security	HPE 1U Security Bezel Kit	664918-B21	
	NOTE: Quick Release Ear option kit (P/N 774609-B21) is required for installing security bezel.		
	HP DL160 Gen9 Quick Release Ear FIO Kit	774609-B21	
	NOTE: Quick Release Ear option kit is required for installing security bezel.		
	HPE Trusted Platform Module 2.0 Kit	745823-B21	
	NOTE: HPE Trusted Platform Module 2.0 Option works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HP ProLiant Gen8 servers or earlier generation variants. NOTE: HPE Gen9 servers purchased earlier may need the latest firmware		
	update to be compatible with the TPM 2.0 Option. NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.		
	HPE Trusted Platform Module Option	488069-B21	
	NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version. Compatible server platforms include Gen8 and Gen9 servers.		
	NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.		
HPE Storage Controllers	SAS Controllers		
Controllers	HPE Smart Array Controllers	700001 001	
	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller HPE Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	726821-B21 820834-B21	
	NOTE: Includes the HPE Smart Storage Battery.	020001 221	
	HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21	
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21	
	NOTE: Includes the HPE Smart Storage Battery.		
	HPE Smart Host Bus Adapters		
	HPE H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21	
	HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter	761873-B21	
	HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21	
	HPE Cable Options HP DL160 Gen9 4LFF Smart HBA H240 SAS Cable Kit	725590-B21	
	HP DL160 Gen9 8SFF Smart HBA H240 SAS Cable Kit	774621-B21	
	HP DL160 Gen9 4LFF Smart Array P440 SAS Cable Kit	725593-B21	

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Additional Options

HP DL160 Gen9 8SFF Smart Array P440 SAS Cable Kit HP DL160 Gen9 4LFF Smart Array B140i SATA Cable FIO Kit	774619-B21 768775-B21
HP DL160 Gen9 8SFF Smart Array B140i SATA Cable FIO Kit	774611-B21
NOTE: One of the above cables is required to be selected depending on the combination of chassis and storage controller. Cable option kit descriptions include the right chassis and storage controllers names. NOTE: FIO indicates that this option is only available as a factory installable option. Please select FIO option if you want the option to be factory installed.	
NOTE: NHP server chassis (Mod-x) includes SATA cables required to connect drives to embedded B140i SATA controller.	
Optional Software	
HPE Smart Array SR SmartCache (Single Key/Single Server) LTU	D7S26A
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU	D7S27A
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU	D7S27AAE
NOTE: HPE SmartCache is supported when one of the supported Smart Array Controllers is installed in the server.	
HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU	Q2F26AAE
Optional Upgrades	
HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers 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.	727258-B21

HPE Tape
BackupNOTE: For the complete range of tape drives, autoloaders, libraries and media see:

http://www.hpe.com/storage/storeever. For hardware and software compatibility of
HPE tape backup products

http://www.hpe.com/storage/BURAcompatibility.
NOTE: For Internal drives to be connected to DL servers please make sure that you
order rack mount kit as well.

Tape Drives

SAS Rack-Mount Tape Solutions

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

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Additional Opt	ions	
	HPE StoreEver MSL LTO-5 Ultrium 3000 SAS Drive Upgrade Kit	BL540B
	HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
	HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
	HPE StoreEver 1U SAS Rack Mount Kit	AE459B
	HPE DAT Autoloader	
	HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 FC Tape Autoloader	N7P34A
	HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 SAS Tape Autoloader	N7P35A
	HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	C0H19A
	HPE StoreEver 1/8 G2 LTO-5 Ultrium 3000 SAS Tape Autoloader	BL536B
	HPE MSL2024 Tape Library	
	HPE StoreEver MSL2024 0-drive Tape Library	AK379A
	HPE MSL4048 Tape Library	
	HPE StoreEver MSL4048 0-drive Tape Library	AK381A
	HPE StoreEver MSL6480	
	HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A
	HPE StoreEver MSL6480 Scalable Base Module	QU625A
	NOTE: Please see the HPE StoreEver MSL6480 Tape Library	
	QuickSpecs for Technical Specifications and additional information).	
HPE Disk	HPE RDX Removable Disk Backup System	
Backup	HPE RDX 4TB USB 3.0 External Disk Backup System	Q2R33A
	HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71
	HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72
	HPE RDX 2TB USB3.0 External Disk Backup System	E7X53E
	HP RDX+ 1TB External Backup System	B7B69E
	HP RDX+ 500GB External Backup System	B7B668
	HPE RDX+ External Docking System	C8S07E
	HPE D3700 Enclosure	QW967
	HPE D3600 Enclosure	QW968A
	HPE StoreOnce 5100 48TB System	BB915A
	HPE StoreOnce 3540 24TB System	BB914A
	HPE StoreOnce 3520 12TB System	BB922/
	HPE StoreOnce 3100 8TB System	BB913A
	NOTE: For the complete range of RDX drives and media see:	
	https://www.hpe.com/us/en/product-catalog/storage/disk-based-	
	backup-systems.html. For hardware and software compatibility of HPE	
	disk backup products see: http://www.hpe.com/storage/spock.	
	NOTE: Please see the HPE RDX Removable Disk Backup System QuickSpecs for additional part numbers, Technical Specifications, and	

HPE Storage Emulex Fibre Channel HBAs

Additional Op	tions	
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
	QLogic Fibre Channel HBAs	
	HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
	HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
	Converged Network Adapter	
	HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
	HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
	HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A

HPE Data Center HPE Advanced Series Racks

Racks	HDE 4911 600mm v 1075mm Advanced Bellet Beek	
naono	HPE 42U 600mm x 1075mm Advanced Pallet Rack	H6J65A
	HPE 42U 600mm x 1075mm Advanced Shock Rack	H6J66A
	HPE 42U 600mm x 1200mm Advanced Pallet Rack	H6J67A
	HPE 42U 600mm x 1200mm Advanced Shock Rack	H6J68A
	HPE 36U 600mm x 1075mm Advanced Pallet Rack	H6J77A
	HPE 36U 600mm x 1075mm Advanced Shock Rack	H6J78A
	HPE 14U 600mm x 1075mm Advanced Shock Rack	H6J82A
	HPE 22U 600mm x 1075mm Advanced Pallet Rack	H6J83A
	HPE 22U 600mm x 1075mm Advanced Shock Rack	H6J84A
	HPE 48U 600mm x 1075mm Advanced Pallet Rack	H6J87A
	HPE 48U 600mm x 1075mm Advanced Shock Rack	H6J88A
	NOTE: Please see the HPE Advanced Series Racks QuickSpecs for	
	information on additional racks options and rack specifications.	
	HPE Enterprise Series Racks	
	HPE 42U 600mm x 1075mm Enterprise Pallet Rack	BW903A
	HP 42U 600mm x 1075mm Enterprise Shock Rack	BW904A
	HP 42U 600mm x 1200mm Enterprise Pallet Rack	BW907A
	HP 42U 600mm x 1200mm Enterprise Shock Rack	BW908A

Additional Optic	ons	
	HP 47U 600mm x 1075mm Enterprise Pallet Rack	BW911A
	HP 47U 600mm x 1075mm Enterprise Shock Rack	BW912A
	HP 47U 600mm x 1200mm Enterprise Pallet Rack	BW913A
	HP 47U 600mm x 1200mm Enterprise Shock Rack	BW914A
	HP 42U 800mm x 1075mm Enterprise Pallet Rack	BW917A
	HP 42U 800mm x 1075mm Enterprise Shock Rack	BW918A
	NOTE: Please see the HPE Enterprise Series Racks QuickSpecs for information on additional racks options and rack specifications.	
	CAUTION: Hewlett Packard Enterprise recommends that a minimum of two pe	onle are
	required for all Rack Server installations. Please refer to your installation instruction proper tools and number of people to use for any installation.	
HPE Power	HPE Basic Power Distribution Units (PDU)	
Distribution	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
Units (PDUs)	NOTE: Please see the HPE Basic Power Distribution Units (PDU)	
	QuickSpecs for information on additional options and product specifications.	
	HPE Metered Power Distribution Units (PDU)	
	HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
	HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
	HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
	HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
	HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A
	HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU	G9Z06A
	HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
	HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	D9N48A
	HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU	D9N51A
	HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU	D9N53A
	HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13 (3) C19/Vertical INTL PDU	D9N55A
	HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A
	HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlet (32) C13 (4) C19/Vertical INTL PDU	D9N50A
	HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13 (3) C19/Vertical INTL PDU	D9N57A

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Additional Options

HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N58A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) C19/Vertical NA/JP PDU	D9N61A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N62A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU	D9N54A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N59A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	G9Z07A
HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P- HP/Vertical NA PDU	D9N63A
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlet (30) C13 (3) C19/Vertical INTL PDU	D9N56A
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	D9N60A
HPE Metered 3Ph 22kVA/60309 5-wire WT 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	G9Z08A
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the HPE Metered Power Distribution Units (PDU)	
QuickSpecs for information on additional options and product specifications.	
specifications.	
HPF Intelligent Power Distribution Unit (PDU)	
HPE Intelligent Power Distribution Unit (PDU)	A E 5 2 0 A
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF520A
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)	AF520A AF521A
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)	
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6)	AF521A
 HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) 	AF521A AF522A
 HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) 	AF521A AF522A AF523A
 HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 3-wire 32A/230V Outlets (6) 	AF521A AF522A AF523A AF901A
 HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) 	AF521A AF522A AF523A AF901A AF525A
 HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) 	AF521A AF522A AF523A AF901A AF525A AF526A
 HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V 	AF521A AF522A AF523A AF901A AF525A AF526A AF527A
 HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V C19/Horizontal INTL PDU 	AF521A AF522A AF523A AF901A AF525A AF526A AF527A AF535A

Additional Options

	HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF532A
	HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A
	HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit	AF534A
	HPE 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
	HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
	NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs for information on additional options and product specifications.	
	HPE Metered and Switched Power Distribution Units (PDU)	
	HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU	H8B48A
	HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1) C19/Vertical WW PDU	H8B49A
	HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	H8B50A
	HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	H8B51A
	HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	H8B52A
	HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5-20R/Vertical NA/JP PDU	H8B53A
	HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU	H8B54A
	HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
	HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A
	NOTE: Please see the HPE Metered and Switched Power Distribution	
	Units (PDU) QuickSpecs for information on additional options and product specifications.	
	NOTE: To learn more, please visit the HPE Uninterruptible Power	
	Systems (UPS) web page	
HPE Rack	HPE Location Discovery Services	
Mount	HPE Location Discovery Services LCD8500 Kit	TL052A
Consoles, KVM	NOTE: Please see the HPE Location Discovery Services	
Switches, and Keyboards	QuickSpecs for information on additional options and product specifications.	
	HPE Rack Mount Consoles	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	HP LCD8500 1U DE Rackmount Console Kit	AF632A

QuickSpecs

Additional Options

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

HPE	HPE DirectFlow Three Phase UPS	
	Power Unit (1U UPS)	
Power Systems (UPS)	HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
(0F3)	HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A

Additional Options

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

QuickSpecs

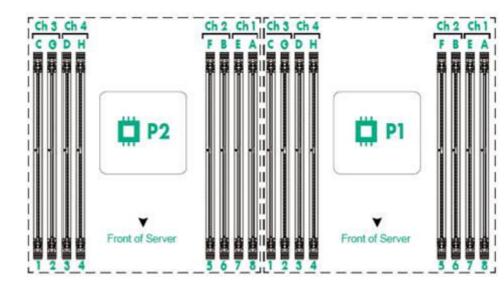
Additional Optio	ns	
	HPE T1000 G4 NA/JP Uninterruptible Power System	J2P86A
	HPE T1000 G4 INTL Uninterruptible Power System	J2P89A
	HPE T1500 G4 UPS Models	
	HPE T1500 G4 NA/JP Uninterruptible Power System	J2P87A
	HPE T1500 G4 INTL Uninterruptible Power System	J2P90A
	HPE Rack/Tower UPS	
	HPE R/T2200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

Additional Options

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

Memory

Memory Population guidelines



General Memory Population Rules and Guidelines:

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

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

Memory

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

Memory Bandwidth and Capacity

Memory Bandwidth and Capacity											
[DIMM Туре]	Registered DIMMs (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 POPULATE	D										
16 slot servers	16	16	16	16	16	16	16	16			
MAXIMUM CAPACITY (GB)											
	64	128	128	256	512	256	512	1024			
POPULATED DIMM SPEED (MT/s)											
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.

Memory

DIMM slot and configuration diagram

DIMM slot and DIMM slot and configuration diagrams

Basic memory slot & population diagram

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

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

		CPU 1		CPU 2					
	Slot #	Population order	Slot #	Popula	tion order				
Chnl 3	1	С	1	С	Chnl3				
	2	G	2	G					
		CPU 1			CPU 2				
	Slot #	Population order	Slot #	Popula	tion order				
Chnl 4	3	D	4	D	Chnl 4				
	4	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 #	Popula	tion order				
Chnl 1	7	E	10	E	Chnl 1				
	8	A	11	A					

Memory	Processor Models	Supported Memory Speeds
Speed by	E5-2609v3, E5-2603v3	1600MT/s
Processor Model	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

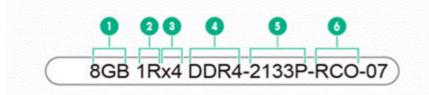
Memory

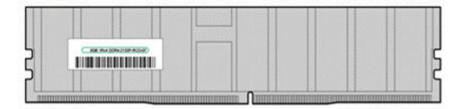
Standard and Maximum Memory	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
Capacity (Pre- configured	E5-2620v4	16GB (1x16GB)	496GB (15x32GB, 1x16GB)	1024GB (16x64GB)
Models)	E5-2609v3	16GB (2x8GB)	464GB (14x32GB, 2x8GB)	1024GB (16x64GB)
	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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- 1-8 8 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- 1-4 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drives Bays

Technical Specifications

System Unit	Dimensions (H x W x D)		23.9 inches (4.29 x 43.46 x 60.76 cm) 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 Adviso 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						
	Device Cumply Output	instructions of the next screens.						
	Power Supply Output	Power	For 550 W Power Supply:					
			550 W (at 100 VAC)					
		Maximum Peak	550 W (at 200 VAC) For 550 W Power Supply:					
		Power	550 W (at 100 VAC)					
			550 W (at 200 VAC)					
	System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).					
		Extended Ambient Operating Support	For approved hardware configurations, the supported system inlet range is					

Technical Specifications

		extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: <u>http://www.hpe.com/servers/ashrae</u> .		
		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: <u>http://www.hpe.com/servers/ashrae</u> .		
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault.		
		NOTE: Supports A3 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	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). Idle			

Technical Specifications					
	LWAd	Entry 5.1 B			
		Base 5.2 B			
		Performance 5.0 B			
	LpAm	Entry 34.2 dBA			
		Base 35.9 dBA			
		Performance 34.9 dBA			
	Operating				
	LWAd	Entry 5.3 B			
		Base 5.3 B			
		Performance 5.6 B			
	LpAm	Entry 36.3 dBA			
		Base 36.2 dBA			
		Performance 39.7 dBA			
Emissions	FCC Rating	Class A			
Classification (EMC)	Normative Standards	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			
	NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.				

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

Technical Specifications

HPE Embedded	Network Interface	10Base-T/100Base-TX	K/1000Base-TX					
Dual Port 361i	Compatibility	IEEE 802.3 10Base-T						
Adapter		IEEE 802.3ab 1000Ba	lse-T					
		IEEE 802.3u 100Base	-TX					
		IEEE 1588, IEEE 802.	1AS					
		IEEE 802.3az - Energ	y Efficient Ethernet (EEE)					
	Data Transfer Method	PCI Express v 2.0, 5.0) GT/s, two lanes (x2)					
	Controller	Intel I350 Powerville						
	Network Transfer Rate	10Base-T (Half- Duplex)	10 Mb/s per port, 40 Mb/s combined					
		10Base-T (Full- Duplex)	20 Mb/s per port, 80 Mb/s combined					
		100Base-TX (Half- Duplex)	100 Mb/s per port, 400 Mb/s combined					
		100Base-TX (Full- Duplex)	200 Mb/s per port, 800 Mb/s combined					
		1000Base-TX (Half and Full-Duplex)	1000 Mb/s per port, 4000 Mb/s combined					
	Connector	Two RJ-45						
	Cable Support	10 Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)					
		10/100/1000 Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)					
Environment	End of life	Howlett Dockard Entry	rarias offers and of life product return					
Environment- friendly Products and Approach	End-of-life Management and Recycling	trade-in, and recycling for our products. Prod	rprise offers end-of-life product return, programs, in many geographic areas, ucts returned to Hewlett Packard cled, recovered or disposed of in a					
		http://www.hpe.com/	recycle					

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

http://www.hpe.com/recycle

Summary of Changes

Date	Version History	Action	Description of Change
25-Sep-2017	From Version 27 to 28	Added	Added new Solid State Drives offering to the HPE Drives section.
		Changed	Core Options and Additional Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
7-Aug-2017	From Version 26 to 27	Added	Added new Solid State Drives offering to the HPE Drives section.
11-Jul-2017	From Version 25 to 26	Changed	Operating Systems and Virtualization Software Support for ProLiant Servers section was revised.
5-Jun-2017	From Version 24 to 25	Added	Added new Solid State Drives offering to the HPE Drives section. New HPE Networking options were added.
8-May-2017	From Version 23 to 24	Added	Added support for ClearOS in Operating Systems and Virtualization Software Support for ProLiant Servers and Optional Features sections.
		Changed	HPE Drives was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
27-Mar-2017	From Version 22 to 23	Added	Added new Hard Drives.
17-Feb-2017	From Version 21 to 22	Changed	HPE Memory section under Core Options was revised.
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.

Summary of Changes

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

Summary of Changes

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



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

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