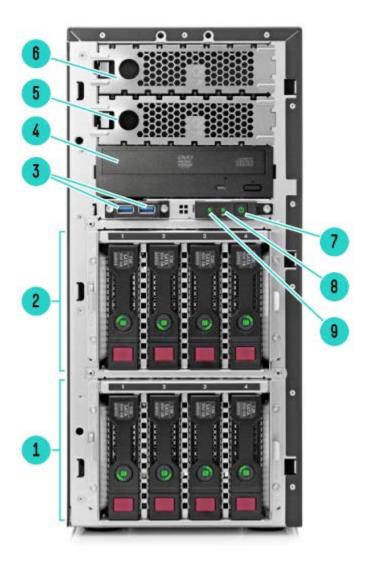
Overview

HPE ProLiant ML150 Generation9 (Gen9)

The HPE ProLiant ML150 Gen9 Server delivers the essential mix of performance, price and expandability to fit the needs of growing budget conscious businesses. Designed as a dual-socket tower server, it is a right size tower with performance and expandability. With expansion options, it allows you to grow as needed with a low initial capital outlay. Covering a wide range of applications and workloads and addressing our customers from sophisticated SMB to large enterprise class server environments.



Front View details for Tower (LFF)

- 1 Drive Cage (4 LFF shown) Alternative server choice would offer 8 SFF
- 3 USB 3.0 (2)
- 5 Media bay, blank shown*

- 2 Drive Cage (4 LFF shown) Alternative server choice would offer 8 SFF
- 4 Media bay, Optional SATA 9.5mm DVD-ROM shown
- 6 Media bay, blank shown*

Hewlett Packard Enterprise

Overview

NOTE: Optional choices: SATA 9.5mm DVD-ROM or DVD RW Optical Drive, Tape Drive, or LFF.

NOTE: When populating 10 LFF, not able to install Tape Drive or Optical Drive. Possible Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half).

7 Power On/Standby button and system power LED button

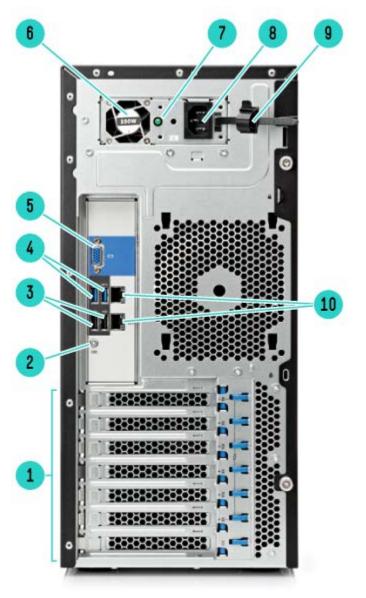
NOTE: Optional choices: SATA 9.5mm DVD-ROM or DVD RW Optical Drive, Tape Drive, or LFF.

NOTE: When populating 10 LFF, not able to install Tape Drive or Optical Drive. Possible Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half).

NIC status

8

9 Health LED



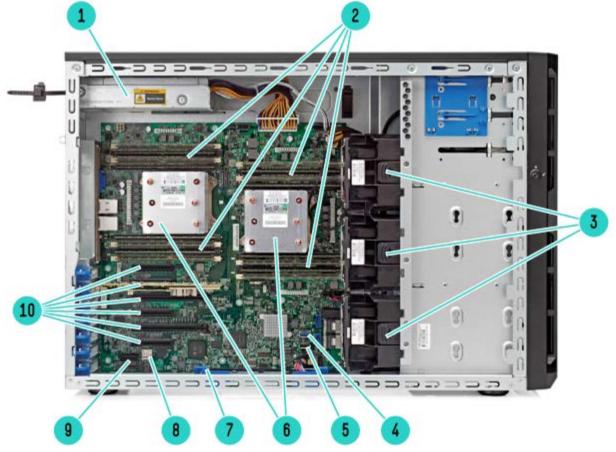
Rear View (Tower Model)

QuickSpecs

Overview

- 1 PCI Slots (Slots 1-6) Slot 1 and 3 can support Optional GPU
- 3 USB 2.0 (2)
- 5 Video Connector
- 7 Power supply Power LED
- 9 Cable tie back

- 2 Unit ID LED
- 4 USB 3.0 (2)
- 6 HPE 550W Power Supply
- 8 Power Supply Power connection
- 10 Network RJ-45 Ports (2)



Internal View (Tower Model)

- 1 Power Supply
- 3 System Fans: Three fans for 2P SKU
- 5 Internal USB 2.0 connector
- 7 Gen9 Smart Storage Battery Holder Kit
- 9 Dedicated iLO module slot

- 2 Sixteen (16) DDR4 DIMM slots. Shown fully populated in 16 slots (8 per processor)
- 4 Internal USB 3.0 connector
- 6 Two (2) processors and heatsinks with HPE Smart Socket Guide (Second Processor is Optional)
- 8 MicroSD slot
- 10 Six (6) PCIe expansion slots

- What's New
 - Intel Xeon E5-2600 v4 Processor
 - HPE Gen9 Standard Memory
 - HPE 900W AC 240VDC Redundant Power

HPE ProLiant ML150 Generation9 (Gen9)

QuickSpecs

Standard Features

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

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

NOTE: Up to 2 processors supported. Mixing different processor models is not supported.

NOTE: Recommend to select 900W for 2P config. or check power advisor for power consumption for the customer usage case.

Cache Memory One of the	15MB (1 x 15MB) Level 3 NOTE: For Six-core processors.						
following depending on	20MB (1 x 20MB) Level 3 NOTE: For Eight-core processors.						
model	25MB (1 x 25MB) Level 3 cache						
	NOTE: For Ten-core processors.						
	30MB (1 x 30MB) Level 3 cache NOTE: For Twelve-core processors.						
	35MB (1 x 35MB) Level 3 cache						
	NOTE: For Fourteen-core processors.						
Chipset	Intel® C610 Series Chipset						
	Intel® E5-2600v4 Processor Family						
	NOTE: For more information regarding Intel [®] chipsets, please see the following						
	URL: http://www.intel.com/products/server/chipsets/						

Standard Features

On System Management Chipset		vare HPE iLO4 2.0 or later), 2GB NAND. I learn more in the <u>iLO QuickSpecs</u>.					
Memory	Type: HPE SmartMemory						
	DDR4 Registered (RDII	MM) or Loa	d Reduced (LRDIMM)				
	DIMM Slots Available	16					
	Maximum Capacity (LRDIMM)	512GB	(16 x 32GB LRDIMM @2400MHz)				
	Maximum Capacity (RDIMM)	512GB	(16 x 32GB RDIMM @2400MHz)				
	NOTE: This server does not support mixing LRDIMMs or RDIMMs. Attempting to mix any combination of these DIMMs can cause the server to halt during BIOS installation.						
Memory Protection	Advanced ECC	Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip.					
	Online spare		ory online spare mode detects a rank that is degrading and switches ation to the spare rank.				
Network Controller	Broadcom 5717 Dual-po	-port 1Gb					

Expansion Slots

Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
6	PCle 3.0	x8	x8		Half Length/Full Height	For processor 1
5	PCle 3.0	x16	x16		Full Length/Full Height	For processor 1
4	PCle 3.0	x8	x8		Half Length/Full Height	For processor 1
3	PCle 3.0	x16	x16		Full Length/Full Height	For processor 2
2	PCle 3.0	x8	x8		Half Length/Full Height	For processor 1
1	PCIe 3.0	x8	x8		Half Length/Full Height	For processor 2

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

NOTE: Six total expansion PCIe 3.0 slots. Two PCIe 3.0 x16 (x16 speed); Four PCIe 3.0 x 8 (x8 speed).

Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
7	HPE ML	x1	x1			Dedicate for ML	
	Gen9					Series	

Standard Features

Dedicated iLO Port Kit

Storage Controller		HPE Dynamic Smart Array B140i (Controller			
One of the following	NOTE: B140i can't mix with any standup internal controller.					
depending on model	Base Models	HPE Dynamic Smart Array B140i (
model	NOTE: B140i can't mix with any standup internal controller.					
	Performance Models	HPE H240 FIO Smart Host Bus Ac	lapter			
Internal Storage	Optical Drive	Optional SATA 9.5mm DVD-ROM	Optical Drive			
Devices		Optional SATA 9.5mm DVD RW O	ptical Drive			
One of the following depending on model			y, base and performance BTO models. ablement Kit (P/N: 784603-B21) is			
		required for any DVD options.				
	Hard Drives	None ship standard				
	Hard Drive Bays	Up to 10 Non-hot plug SATA 3.5" c	drives			
	,	NOTE: Mixing drive cage types is				
		installed. The 4LFF configuration blanks. Additional hard drive bla 654963-B21for the HPE LFF HDD SFF HDD Blank Kit. These part n also provided should you require server. NOTE: NHPE SATA is limited to NOTE: When populate 10 LFF, no Optical Drive. Possible Configura (Full/Half), or 2) 9LFF + 1 ODD, o	bt able to install any Tape Drive and ations: 1) 8LFF +1 ODD + 1 Tape Drive or 3) 9LFF + 1 Tape Drive (Full/Half). PE drive cage and 10LFF enablement kit LFF drives. bays; upgradable to (8) bays; upgradable to (16) controller.			
		NOTE: H240 8LFF/8SFF require NOTE: P84016SFF require 2 cabl				
Maximum Internal		CAPACITY	CONFIGURATION			
Storage	Hot Plug LFF SAS	64TB	8x8TB			
depending on	Hot Plug LFF SATA	64TB	8x8TB			
	Hot Plug SFF SAS	32TB	16x2TB			
model		32TB	16x2TB			
model	Hot Plug SFF SATA					
model	Hot Plug SFF SATA Non-Hot Plug LFF SA Hot Plug LFF SAS SS	ATA 40TB	10x4TB 8x1.6TB			

depending on

model

Standard Features

Hot Plug SFF SAS SSD	30.72TB	16x1.92TB
Hot Plug SFF SATA SSD	61.44TB	16x3.84TB

Power Supply HPE 550W FIO Power Supply

One of the following HPE 900W AC 240V DC Redundant Power Supply

NOTE: Each Redundant Power Supply Backplane can support up to two (2) power input modules. Non-redundant configurations with a single power input module installed can provide up to 900W (200 – 240VAC) and up to 550W (100 – 127VAC) of power. Redundant configurations with two power input modules installed can provide up to 800W (200 – 240VAC) and up to 550W (100 – 127VAC) of power.

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

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

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

Rack Options HPE T/R CONV TRAY UNIVERSAL KIT

One of the following depending on model

System Fans		Non-redundant	Redundant			
One of the following	1P model	2 fans	NA			
depending on	NOTE: Two (2) Non-hot plug, no	on-redundant fans ship as stand	lard.			
model		Non-redundant	Redundant			
	2P model	3 fans	NA			
	NOTE: Third fan is shipped with	2nd CPU Kit. Third fan is only r	equired in 2P configurations.			
Interfaces	Video	1(rear)				
	Network RJ-45 (Ethernet)	2				
	HPE iLO Remote Management Network Port	2GB NAND				
	Micro SD Slot	1 (internal)				
	NOTE: The Micro-SD slot is not a hot-pluggable device. Customers should not attempt to plug a					
	Micro-SD card into the Micro-SD slot while the server is powered.					
	USB 3.0	5 (2 rear, 1 internal, 2 front)				
	USB 2.0	3 (2 rear, 1 internal)				

Standard Features

Operating Systems and Virtualization Software Support for ProLiant Servers	Microsoft Windows Server Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) VMware Oracle Solaris NOTE: For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page http://h20566.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=7481832.					
Upgradeability	Upgradeable to two processors (24 cores)					
	NOTE: Total 6, 8, 10, 12, 14 cores.					
	Up to 16 SFF Hard Drive Bays; Or 10 LFF Hard Drive Bays					
	Up to 16 DIMM slots					
	Redundant Power Supply					
	Tower to rack conversion					
	Optional optical drive (up to 1)					
	NOTE: When populate 10 LFF, not able to install Optical Drive. Possible Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half).					
	ACPI 2.0b Compliant					
Compliance	PCIe 3.0 Compliant					
	PXE Support					
	WOL Support					
	Novell Certified					
	IPMI 2.0, SMASH CLP, DCMI 1.0 compliant					
	Microsoft® Logo certifications					
	USB 3.0 Support					
	SMBIOS 2.7.1					
	ASHRAE A3					
Graphics	Integrated Matrox G200 video standard					
	 1280 x 1024 (32 bpp) 1920 x 1200 (16 bpp) 					
HPE Server	Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability					
UEFI/Legacy ROM	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					

Standard Features

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

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

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

Form Factor	Tower or Rack (5	U)		
Embedded Management	HPE Integrated Lights-Out (HPE iLO)	Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Not available on ML10 Gen9. Learn more at http://www.hpe.com/info/ilo .		
	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at http://www.hpe.com/servers/uefi .		
	RESTful API	RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi .		
	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning .		
	Embedded Remote Support	The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore.		
Server Smart utilities Update	Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP) and smart components. Learn more at http://www.hpe.com/servers/smartupdatemanager .			

QuickSpecs

Standard Features

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-Hewlett Packard Enterprise 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 .					
T a W	cripting 'ool Kit nd Vindows 'owerShel	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 .					
Ir	ESTful nterface ool	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 .					
M	IPE iLO Iobile 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 .					
lr O	IPE nsight Online OTE: The	HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty, Care Pack or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at <u>http://www.hpe.com/info/insightonline/explore</u> . Service Pack for ProLiant (which includes HPE SUM) can be downloaded					
fr	om <u>http:/</u>	/www.hp.com/go/spp/download. More information can be p://www.hp.com/go/SmartUpdate, http://www.hp.com/go/spp and http://www.hp.com/go/hpsum.					
Security		Power-on password Setup password Serial interface control Power switch security Administrator's password TPM 1.2 UEFI					
Warranty		This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.					

NOTE: Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a

Standard Features

Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available

at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.

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.				
Server Management	HPE Insight Control	HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hpe.com/info/insightcontrol .				
High Performance Clusters	suite of tools that CMU includes so makes the admin HPE Cluster Plat optimized for Hic system options in Enterprise Server	uster Management Utility (CMU) is a Hewlett Packard Enterprise licensed and supported hat are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. software for the centralized provisioning, management and monitoring of nodes. CMU ninistration of clusters user friendly, efficient, and effective. http://www.hp.com/go/cmu . latforms are specifically engineered, factory-integrated large-scale ProLiant clusters High Performance Computing, with a choice of servers, networks and software. Operating s include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux ver, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies c://www.hp.com/go/clusters .				
HPC Interconnects	under the HPE C supported by Ho Solutions can be following URL to	formance Computing (HPC) interconnect technologies are available for this server Cluster Platform product portfolio. These high-speed interconnects are fully ewlett Packard Enterprise when they are part of these configure to order clusters. e defined with a lot of flexibility with the help of configuration tools. Please visit the o configure HPEC Clusters with InfiniBand ttp://www.hp.com/techservers/clusters/ucp/index.html				

Optional Features

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 tha Hewlett Packard Enterprise storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities. Storage software that gets the job done:

Data Protection and Recovery Software •

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

Data Archive and Migration Software

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

Storage Resource Management Software (SRM)

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

Data Replication Software •

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

Storage Device Management Software •

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

HPE StoreVirtual VSA •

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

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

One Config Simple SCE is a guided self-service tool to help sales and non-technical people provide customers with initial (SCE) configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. https://h22174.www2.hp.com/SimplifiedConfig/Index.

HPE Support Services	HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support for need for your IT and business.
Connect your devices	Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77% ¹ reduction in down time, near 100% ² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support. 1-IDC 2-HP CSC reports 2014- 2015
Recommended	Standard: HPE Foundation Care 24x7, three-year Support Service
Support	 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. http://h20195.www2.hp.com/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 Hewlett Packard Enterprise servers. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf
Parts and Materials	Hewlett Packard Enterprise will provide Hewlett Packard Enterprise-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.
	Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.
	The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.
Related Services	HPE Server Hardware Installation
	Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices

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.

Service and Support

http://h20195.www2.hp.com/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. BookServiceson 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 andCenterexperts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with
Hewlett Packard Enterprise experts, access support resources or collaborate with peers.

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

The Hewlett Packard Enterprise Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.

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

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

Pre-configured Models

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

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

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

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

4. Not all models are available in all regions. Check with your local country Hewlett Packard Enterprise offices for availability.

NOTE: All Pre-configured Models come populated with hard drive blanks installed. The 4LFF configurations includes 2 blanks and 8SFF includes 6 blanks. Additional hard drive blanks can be ordered using either P/N 666986-B21 for the HP LFF HDD Blank Kit or P/N 666987-B21 for the HP SFF HDD Blank Kit. These part numbers for single HDD blanks below are also provided should you require replacement HDD blanks for your server.

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

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

	Entry	Models	Base N	1odels
[SKU Number]	776274-xx1	834606-xx1	776275-xx1	834607-xx1
Model Name	HP ProLiant ML150 Gen9 E5-2603v3 4GB B140i Non-hot Plug 4LFF SATA Entry 550W PS Server	HPE ProLiant ML150 Gen9 E5-2603v4 8GB- R B140i NHP 4LFF SATA 550W Entry Svr	HP ProLiant ML150 Gen9 E5-2609v3 8GB B140i Hot Plug 4LFF SATA Base 550W PS Server	HPE ProLiant ML150 Gen9 E5-2609v4 8GB- R B140i Hot Plug 4LFF SATA 550W Base Svr
Processor	Intel® Xeon® E5- 2603v3	Intel® Xeon® E5- 2603v4	Intel® Xeon® E5- 2609v3	Intel® Xeon® E5- 2609v4
Number of Processors		(Dne	·
Memory	4GB (1x4GB UDIMMs, 2133 MHz)	8GB (1x8GB Registered DIMMs, 2400 MHz)	8GB (1x8GB Registered DIMMs, 2133 MHz)	8GB (1x8GB Registered DIMMs, 2400 MHz)
Network Controller	Broadcom 5717 Dual-port 1GbE		·	
Storage Controller		HPE Dynamic S	Smart Array B140i	
Hard Drive		None shi	ip standard	
Internal Storage	4 LFF HDD Bays (Non Hot Plug)		4 LFF H	DD Bays
Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)			
Optical Drive	Optional Slim Optical Bay (SATA DVD-RW/ROM Optical Drive)		Drive)	
PCI-Express Slots	6 PCIe slots	9 PCIe slots	6 PCI	e slots
Power Supply		(1) HPE 550W I	FIO Power Supply	
Fans	2 non hot plug, non-redundant fans			

Pre-configured Models

Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale- out (optional only for DL), iLO Advanced (optional)
Form Factor	Tower (5U)
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day
	response.

	Perforn	nance Models	
[SKU Number]	776276-xx1	834608-xx1	
Model Name	HP ProLiant ML150 Gen9 E5-2620v3 16GB H240 Hot Plug 8SFF SAS Perf 900W PS Server	HPE ProLiant ML150 Gen9 E5-2620v4 16GB-R H240 Hot Plug 8SFF SAS 900W Perf Svr	
Processor	Intel® Xeon® E5-2620v3	Intel® Xeon® E5-2620v4	
Number of Processors	One		
Memory	16GB (1x16GB Registered DIMMs, 2133 MHz)	16GB (1x16GB Registered DIMMs, 2400 MHz)	
Network Controller	Broadcom 57	717 Dual-port 1GbE	
Storage Controller	HPE H240 Smart Host Bus Adapter NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is included while order Performance Model with H240 Storage Controller		
Hard Drive	None ship standard		
Internal Storage	8 SFF HDD Bays		
Optical Drive Bay	1; (Optional: D	VD-ROM, DVD-RW)	
Optical Drive	Optional Slim Optical Bay (S.	ATA DVD-RW/ROM Optical Drive)	
PCI-Express Slots	6 F	PCIe slots	
Power Supply	900W AC 240	VDC Power Supply	
Fans	2 non hot plug	non-redundant fans	
Management		ning (standard), iLO Essentials (optional), iLO Scale- DL), iLO Advanced (optional)	
Form Factor	То	wer (5U)	
Warranty		Labor, 1-Year Onsite support with next business day sponse.	

 Country Code Key
 xx1 = B21
 Worldwide

 xx1 = 001
 US

 xx1 = 031
 UK

 xx1 = 291
 Japan

 xx1 = 371
 AP

 xx1 = 421
 EU

 xx1 = AA1
 PRC

NOTE: Not all models are available in all regions. Check with your local country Hewlett Packard Enterprise offices for availability.

QuickSpecs

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 a Hewlett Packard Enterprise approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

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

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

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

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

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

[Chassis]	HP ProLiant ML150 Gen9	HP ProLiant ML150 Gen9 Hot	HP ProLiant ML150 Gen9 Hot	
	Non-hot Plug 4LFF	Plug 4LFF Configure-to-order	Plug 8SFF Configure-to-order	
	Configure-to-order Server	Server	Server	
SKU Number	767062-B21	767063-B21	767064-B21	
Processor	2	(optional) x HPE Smart Socket Gu	uides	
DIMMSlots	16 DIMI	M slots for RDIMM, LRDIMM DDR	4 Memory	
Storage Controller		HPE Dynamic Smart Array B140i		
PCle		6 Standard (4FH/HL, 2FH/FL)		
Drive Cage	4LFF Non Hot Plug	4LFF Hot Plug	8SFF Hot Plug	
Network Controller		Broadcom 5717 Dual-port 1GbE		
Fans		2 non hot plug, non-redundant fa	ns	
Management	iLO Managem	ent (standard), Intelligent Provisi	oning (standard)	
USB		2 front, 2 internal, 4 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 xxxxxx-L21 and one xxxxxx-B21.
- Up to 2 processors supported. Mixing different processor models is not supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

For the Intel[®] C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment designation, OO = 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,
 - LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM.

Configuration Information - Factory Integrated Models

	 HPE memory from previous generation servers are not qualified or warranted with this HPE ProLiant Server. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9. 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. Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy-efficient. Depending on the memory configuration and processor model, the memory speed may run at 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: http://www.hp.com/go/ddr4config.
HPE Power Supplies	 Select one or more power supplies from Core Options-Power Supplies section below: Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: http://www.hp.com/go/hppoweradvisor. Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.
Step 3: Choose	Additional Factory Integratable Options
HPE 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.hp.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 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 GraphicsSelect one or more graphics adapter from Additional options section below.Options

Configuration Information - Factory Integrated Models

	 Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located at: http://www.hp.com/go/hppoweradvisor. This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.
HPE Unique Options	Select one or more Unique options from Core options section below.
-	 This section may contain FIO options, please see the Unique options section below. FIO indicates that this option is only available as a factory installable option.
HPE Cooling Options	Select one or more Fan Kits from Core options section below.
	 This section may contain FIO options, please see HPE Cooling Options section below. FIO indicates that this option is only available as a factory installable option.
HPE Storage Controllers	Select one or more Storage options from Additional options section below.
	• The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22
	 This section may contain FIO options, please see HPE Storage Controllers section below. FIO indicates that this option is only available as a factory installable option.

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

HPE Unique Options	HP ML150 Gen9 4LFF Hot Plug Drive Cage NOTE: Adding 4LFF Hard Drive Cage allow up to 8FF Drive Bays.	725872-B21
	HP ML150 Gen9 8SFF Hot Plug Drive Cage NOTE: Adding 8SFF Hard Drive backplane allow up to 16SFF Drive Bays.	725874-B21
	HP ML150 Gen9 4LFF Non-hot Plug Drive Cage NOTE: Adding 4LFF Hard Drive Cage allow for up to 8LFF Drive Bays.	779859-B21
	HP ML150 Gen9 PCI Baffle Kit NOTE: Must select when a PCIe card is installed with any Networking, Controllers (SAS, SCSI and Fiber Channel), and Graphic options. NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is included while order Performance Model with H240 Storage Controller.	779861-B21
	HP ML150 Gen9 Slim ODD Enablement Kit NOTE: Must select with the ODD option.	784603-B21
	HP ML150 Gen9 Smart Storage Battery Holder Kit NOTE: Must select when install Smart Store Battery P/N: 727258-B21. NOTE: Must select when install P440/840 FIO controller P/N: 761872- B21/761874-B21.	786710-B21
	NOTE: Must select when support upgrade battery. HP ML150 Gen9 9/10LFF Drive Enablement Kit NOTE: When populate 10 LFF, not able to install any Tape Drive or Optical Drive. Possible Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half). NOTE: 10LFF is limited to B140i controller.	788567-B21
	NOTE: Must select both 4LFF NHPE drive cage and 10LFF enablement kit if plan to expand to 10LFF. NOTE: Only support NHPE SATA HDD. NOTE: Must select B140i controller.	
	HP ML150 Gen9 Dedicated iLO Management Port Kit HP ML150 Gen9 Mini SAS H240 Cable Kit NOTE: Must be selected for H240 controller. 1 cable kit is required for Hot Plug 4LFF. 2 cable kits are required for below: - Hot Plug 4+4 LFF (with additional drive cage) - 8 SFF	780310-B21 784606-B21
	HP ML150 Gen9 Mini SAS P440/P840 Cable Kit NOTE: Must be selected for P440/P840 controller. 1 cable kit is required for P440x1. 2 cable kits are required for P840x1.	784608-B21
	HP Tower to Rack Conversion Tray Universal Kit	417705-B21

	HP AHCI-Enable FIO Setting NOTE: This needs to be selected when Advanced Host Controller Interface mode is required on B140i controller.	801845-B21
	HP ML150 Gen9 GPU Enablement Kit	779863-B21
HPE Processors	Entry Processors - E5-2600v4 series Processors	
	HPE ML150 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit	828355-B21
	HPE ML150 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit	828355-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	828356-B21
	HPE ML150 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	828356-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit	828357-B21
	HPE ML150 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit	828357-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit	828358-B21
	HPE ML150 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit	828358-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit	828361-B21
	HPE ML150 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit	828361-L21
	Entry Processors - E5-2600v3 series Processors	
	HP ML150 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	726660-B21
	HP ML150 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit	726660-L21
	HP ML150 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	726663-B21
	HP ML150 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit	726663-L21
	Base Processors - E5-2600v3 series Processors	
	HP ML150 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	726650-B21
	HP ML150 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	726650-L21
	HP ML150 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	726653-B21
	HP ML150 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit	726653-L21

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HP ML150 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	726657-B21
HP ML150 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit	726657-L21
HP ML150 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/10MB/55W) Processor Kit	726670-B21
HP ML150 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/10MB/55W) FIO Processor Kit	726670-L21
Performance Processors - E5-2600v4 series Processors	
HPE ML150 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit	828353-B21
HPE ML150 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	828353-L21
HPE ML150 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit	828359-B21
HPE ML150 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit	828359-L21
HPE ML150 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit	828360-B21
HPE ML150 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	828360-L21
HPE ML150 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	828354-B21
HPE ML150 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	828354-L21
Performance Processors - E5-2600v3 series Processors	
HP ML150 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	726667-L21
HP ML150 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	726644-B21
HP ML150 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	726644-L21
HP ML150 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/30MB/105W) Processor Kit	726647-B21
HP ML150 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/30MB/105W) FIO Processor Kit	726647-L21
NOTE: Recommend to select 900W for 2P configurations or check power advisor for	or power
consumption for the customer usage case.	

HPE Memory Registered DIMMs (RDIMMs)

HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard	803026-B21
Memory Kit	
NOTE: Available WW except EMEA.	
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 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard	803028-B21
	Memory Kit	
	NOTE: Available WW except EMEA.	
	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
	HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
	HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
	HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard Memory Kit	851353-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Registered Memory Kit	805353-B21
HPE Optical Dr	ives HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
	HP ML150 Gen9 Slim ODD Enablement Kit NOTE: Must be selected with the ODD option.	784603-B21
	NOTE: Must select ODD enablement kit, one kit per ODD.	
	· · ·	
HPE Drives	NOTE: User may select any combination of SAS or SATA Hard Drives. However, if RAID is selected and both SAS and SATA Hard Drives have been select SAS Drives will be used in the RAID set. NOTE: If B140i is the primary controller, user can only select SATA drives. NOTE: SAS drives require the selection of a SAS controller. See card lists in Contro SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
HPE Drives	However, if RAID is selected and both SAS and SATA Hard Drives have been select SAS Drives will be used in the RAID set. NOTE: If B140i is the primary controller, user can only select SATA drives. NOTE: SAS drives require the selection of a SAS controller. See card lists in Contro SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	llers section.
HPE Drives	However, if RAID is selected and both SAS and SATA Hard Drives have been select SAS Drives will be used in the RAID set. NOTE: If B140i is the primary controller, user can only select SATA drives. NOTE: SAS drives require the selection of a SAS controller. See card lists in Contro	
HPE Drives	 However, if RAID is selected and both SAS and SATA Hard Drives have been select SAS Drives will be used in the RAID set. NOTE: If B140i is the primary controller, user can only select SATA drives. NOTE: SAS drives require the selection of a SAS controller. See card lists in Control SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty 	llers section. 781518-B21
HPE Drives	 However, if RAID is selected and both SAS and SATA Hard Drives have been select SAS Drives will be used in the RAID set. NOTE: If B140i is the primary controller, user can only select SATA drives. NOTE: SAS drives require the selection of a SAS controller. See card lists in Control SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 	Ilers section. 781518-B21 718162-B21
HPE Drives	 However, if RAID is selected and both SAS and SATA Hard Drives have been select SAS Drives will be used in the RAID set. NOTE: If B140i is the primary controller, user can only select SATA drives. NOTE: SAS drives require the selection of a SAS controller. See card lists in Control SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 	Ilers section. 781518-B21 718162-B21 785069-B21
HPE Drives	 However, if RAID is selected and both SAS and SATA Hard Drives have been select SAS Drives will be used in the RAID set. NOTE: If B140i is the primary controller, user can only select SATA drives. NOTE: SAS drives require the selection of a SAS controller. See card lists in Control SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 	Ilers section. 781518-B21 718162-B21 785069-B21 652589-B21

HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard	785067-B21
Drive	
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive	748387-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793671-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-B21
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21

HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	628061-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801888-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	628065-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801886-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659339-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801884-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659337-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801882-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659341-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives	
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21

HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid762270-B21State Drive762272-B21State Drive7703-B21SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium Tyr Warranty Hard Drive793703-B21HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium Tyr Warranty Hard Drive793703-B21HP 5TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium Tyr Warranty Hard Drive793699-B216G SATA Hot Plug SFF (2.5-inch) SC Ended Intensive Solid State Drive804605-B21HP 16TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804659-B21HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-B21HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804575-B21HP 20GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804575-B21MP 800B 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive816929-B21HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-B21HP 384TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-B21HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive81689-B21HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive81689-B21HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive81689-B21HP 12TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive81689-B21HP 12DB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive81689-B21HP 12DB 6G SATA Mead Intensive-2 SFF 2.5-in SC 3yr Wty Solid	12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
State Drive762272-B21BY 16TB 12G SAS Value Endurance LFF 35-in SC Enterprise Value 3yr Wty Solid State Drive762272-B21SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium Drives793703-B21HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive793699-B216G SATA Not Plug SFF (2.5-inch) SC Read Intensive Solid State Drive804605-B21HP 16TB 6G SATA Read Intensive-2 SFF 25-in SC 3yr Wty Solid State Drive804599-B21HP 480GB 6G SATA Read Intensive-2 SFF 25-in SC 3yr Wty Solid State Drive804597-B21HP 240GB 6G SATA Read Intensive-2 SFF 25-in SC 3yr Wty Solid State Drive804597-B21HP 240GB 6G SATA Read Intensive-2 SFF 25-in SC 3yr Wty Solid State Drive804597-B21HP 240GB 6G SATA Read Intensive-2 SFF 25-in SC 3yr Wty Solid State Drive804597-B21HP 240GB 6G SATA Read Intensive-2 SFF 25-in SC 3yr Wty Solid State Drive804597-B21HP 384TB 6G SATA Read Intensive-3 SFF 25-in SC 3yr Wty Solid State Drive816929-B21HP 980GB 6G SATA Read Intensive-3 SFF 25-in SC 3yr Wty Solid State Drive816929-B21HP 940GB 6G SATA Read Intensive-3 SFF 25-in SC 3yr Wty Solid State Drive816929-B21HP 940GB 6G SATA Read Intensive-3 SFF 25-in SC 3yr Wty Solid State Drive816899-B21HP 940GB 6G SATA Read Intensive-3 SFF 25-in SC 3yr Wty Solid State Drive816899-B21HP 940GB 6G SATA Read Intensive-3 SFF 25-in SC 3yr Wty Solid State Drive816879-B216G SATA Mite Intensive-3 SFF 25-in SC 3yr Wty Solid State Drive816879-B21HP 240GB 6G SATA Read Intensive-2 SFF 25-in SC 3yr Wty Solid State Drive816879-B21HP 240GB 6G SATA M		762270-B21
State Drive SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium Drives HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive 793699-B21 dG SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drive HP 16TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804605-B21 HP 800B 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804599-B21 HP 4800B 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804587-B21 HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804587-B21 HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804587-B21 HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804587-B21 HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804587-B21 HP 20GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 804587-B21 HP 30GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 804597-B21 HP 384TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 816929-B21 HP 320TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 816909-B21 HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 816909-B21 HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 816899-B21 HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 816899-B21 HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 816899-B21 HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive 816899-B21 HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 8046677-B21 HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804677-B21 HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive 8046678-B21 HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive 8046678-B21 HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive 8046678-B21 HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr	State Drive	
HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive793703-B21HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive793699-B21 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drive 804605-B21HP 16TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804599-B21HP 800G 8G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804597-B21HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804597-B21HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-B21HP 20GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-B21HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804597-B21HP 80GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-B21HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-B21HP 940GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 940GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 12DEG 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-B21HP 12DEG 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 12DEG 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 12DE 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty		762272-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive793699-B216G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drive804605-B21HP 16TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804599-B21HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804597-B21HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-B21HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-B21HP 20GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804581-B21HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive80457-B216G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drive816929-B21HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-B21HP 920GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-B21HP 940GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 400GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-B21HP 12TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 12TB 6G SATA Write Intensive 2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 12TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 400GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium Drives	
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HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804605-821HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804599-821HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-821HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-821HP 100GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-821HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804597-821 6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives 816929-821HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-821HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-821HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-821HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-821HP 12DGB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-821HP 12DGB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804667-821HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804678-821HP 400GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804667-821HP 400GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804667-821HP 400GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive8	HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804599-821HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804593-821HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-821HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804581-821HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804597-821 6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives 816929-821HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816919-821HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-821HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive804677-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive804677-821HP 120GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-821HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804667-821HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-821HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804667-821HP 400GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804663-821HP 400GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804593-821HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-821HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804575-8216G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives804575-8216G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives816929-821HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816929-821HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-821HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive804657-821HP 120GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804657-821HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804657-821HP 400GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804658-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804651-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821<	HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804587-821HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804575-8216G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives804575-8216G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives816929-821HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816919-821HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-821HP 940GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive804657-821HP 120GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804657-821HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804657-821HP 400GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804658-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821HP 10GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821HP 16TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821H	HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804581-821HP 80GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive804575-8216G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives816929-821HP 192TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-821HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-821HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-821HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-821HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive804677-821HP 120GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-821HP 12TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804667-821HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804637-821HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804637-821HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804637-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804637-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-821HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804575-B216G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives816929-B21HP 1:92TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-B21HP 9:06GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-B21HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-B21MP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-B21HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 120GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804667-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804663-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 1:5TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 1:6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804	HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives816929-B21HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816919-B21HP 1.92TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-B21HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816909-B21HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816899-B21HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816889-B21HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-B216G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drive804677-B21HP 12TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804652-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804652-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804654-B21HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 100GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive804613	HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
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HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816889-B21HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-B216G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drive804677-B21HP 12TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804667-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804665-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804665-B21HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B216G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drive804639-B216G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drive804631-B21HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 1920GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 192TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 940GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21H	HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816909-B21
HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive816879-B216G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drive804677-B21HP 12TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804625-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B21HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B216G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drive804631-B21HP 16TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 1920GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 192TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive817011-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G S	HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816899-B21
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State DrivesHP 12TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804625-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804665-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B216G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drive804631-B21HP 16TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 1920GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 1920GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive817011-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.	HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816889-B21
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804677-B21HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804625-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804665-B21HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B21 6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drive 804639-B21 6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drive 804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA M	HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816879-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804671-B21HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804625-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804665-B21HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B21 6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives 804631-B21HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 900GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 900GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804625-B21HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804665-B21HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B21 6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives 804639-B21HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 1920GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive817011-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804665-B21HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B21 6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives 804631-B21HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21 6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives 804613-B21 6G SATA Hot Plug MU-3 SFF (2.5-in SC 3yr Wty Solid State Drive817011-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804639-B216G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives804631-B21HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive832414-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B216G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drive804613-B216G SATA Hot Plug MU-3 SFF (2.5-in SC 3yr Wty Solid State Drive817011-B21HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State DrivesHP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive832414-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21 6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives 804613-B21HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive817011-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804631-B21HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive832414-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B21 6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives 817011-B21HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21	HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive832414-B21HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B216G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives817011-B21HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive817011-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive804613-B216G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives817011-B21HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21	HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State DrivesHP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive817011-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21	HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive817011-B21HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21	HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816995-B21HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives	
HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816985-B21HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	817011-B21
HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816975-B21HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-B21
HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive816965-B21	HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816985-B21
	HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816975-B21
AG SATA Hot Plug SEE (2 5-inch) Enterprise Value Solid State Prives	HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816965-B21
oo SATA Hor Plug SFT (2.5 men) Emerprise Value Sona State Drives	6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1756657-B21Solid State Drive756657-B21		756657-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	

HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
6G SATA Hot Plug LFF (3.5-inch) RI-3 SCC SSD	
HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816933-B21
HP 1.92TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816923-B21
HP 960GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816913-B21
HP 480GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816903-B21
HP 240GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816893-B21
HP 120GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816883-B21
6G SATA Hot Plug LFF (3.5-inch) SC Write Intensive Solid State Drives	
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives	
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804634-B21
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	832417-B21
HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD	
HP 1.92TB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	817015-B21
HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816999-B21
HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816989-B21
HP 240GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816979-B21
HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816969-B21
6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise Value M1 Solid State Drives	

	NOTE: When purchase HPE 900W A 240VDC RPS Power Backplane (814835-B21) 240VDC Power Input Module (775595-B21), it supports 900W non-redundant PSU power supply, must purchase HPE 900W AC 240VDC Redundant Power Supply K	J. To support redund
	HPE 900W AC 240VDC Redundant Power Supply Kit	820792-B21
	HPE 900W AC 240VDC RPS Power Backplane	814835-B21
	HPE 900W AC 240VDC Power Input Module	775595-B21
	at http://www.hp.com/go/proliant/powersupply.	
	all HPE Server power supplies can be found	
	efficiency rating of up to 89%. Power specifications and technical content for	
	HP 550W FIO Power Supply Kit NOTE: The above power supply option is 80Plus Silver-certified with an	730941-B21
HPE Power Supplies	Hewlett Packard Enterprise entry-level Power Supplies	7700/1 001
	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	10 Gigabit Ethernet adapters	01070 021
	HP Ethernet 1Gb 2-port 366T Adapter	811546-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
IPE Networking	1 Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Small Form Factor Hard Drive Blank Kit	666987-B21
	HP Large Form Factor Hard Drive Blank Kit	666986-B21
	Hard Drive Blank Kits	
	Drive	
	HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard	793683-B21
	HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
	6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Helium Drives	
	HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756660-B21
	Value G1 Solid State Drives	
	6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise	
	HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764939-B21
	Wty M1 Solid State Drive	
	Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr	764941-B21
	HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr	764943-B21

NOTE: Recommend to select 900W for 2P configurations or check power advisor for power consumption for the customer usage case. Power specifications and technical content for all HPE Server power supplies can be found at http://www.hp.com/go/proliant/powersupply.

HPE Computation and Graphics Accelerators	HP NVIDIA Quadro K2200 Graphics Accelerator NOTE: Must select 2 processor if 2 graphic cards are selected.	JOG89A
Accelerators	NOTE: Must select 900W power supply when 2 graphic cards are selected. HP AMD FirePro W7100 Accelerator Kit	JOH10A
	NOTE: Must select HPE ML150 Gen9 GPU Enablement Kit (779863-B21) if W7100 Accelerator Kit (J0H10A) is selected.	
	HP ML150 Gen9 GPU Enablement Kit	779863-B21
	NOTE: Only the above listed Graphics cards are HPE standard supported option. NOTE: The NVIDIA Quadro modules and AMD FirePro W7100 are supported only of Linux and Windows operating systems as well as on Virtual Machine client operation.	on 64-bit versions
		v on 64-bit versions erating systems. Gerver 2012 R2. our individual
HPE Cooling	NOTE: The NVIDIA Quadro modules and AMD FirePro W7100 are supported only of Linux and Windows operating systems as well as on Virtual Machine client operating systems are RHEL6, SLES 11 and Windows S NOTE: Please see the HPE Power Advisor for estimated power consumption of y system configuration prior to installing GPUs. The HPE Power Advisor is located	v on 64-bit versions erating systems. Gerver 2012 R2. our individual

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

Embedded	HPE iLO Advanced	
Management	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A
	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A
	HP Insight Management Media Kit	C6N31A
	HPE iLO Essentials	
	HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates Single Svr License	BD774A
	HP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and Updates Single Svr License	BD775A
	HP Integrated Lights-Out Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE
	HP Integrated Lights-Out Essentials including 1yr 24x7 Technical Support and Updates E-LTU	E6U62ABE
High Performan	ce HPE Insight Cluster Management Utility	
Clusters	HP Insight Cluster Management Utility 3yr 24x7 Flexible License	BD476A
	HP Insight Cluster Management Utility 1yr 24x7 Flexible License	QL803B
	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.	
	HP Insight Cluster Management Utility Media	BD477A
HPE Security	HP Trusted Platform Module 2.0 Kit	745823-B21
-	NOTE: HPE Trusted Platform Module 2.0 Option works with Gen9 servers	
	with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant	
	Gen8 servers or earlier generation variants.	
	NOTE: HPE Gen9 servers purchased earlier may need the latest firmware	
	update to be compatible with the TPM 2.0 Option.	
	NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.	

HPE Storage	SAS Controllers	
Controllers	HPE Smart Array Controllers	
	HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	820834-B21
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
	HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726897-B21
	NOTE: 16SFF is limited to P840.	
	HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21
	NOTE: Smart Storage Battery included.	
	NOTE: Must select battery holder P/N: 786710-B21 when purchasing the P440.	
	NOTE: B140i can't mix with any standup internal controller.	
	NOTE: HPE ML150 Gen9 Mini SAS P440/P840 Cable Kit must be selected	
	P/N: 784606-B21 for P440 controller (1 cable kit is required for P440x1).	
	NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is required when ordering the H240 controller card.	
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller	761874-B21
	NOTE: Smart Storage Battery included.	
	NOTE: B140i can't mix with any standup internal controller.	
	NOTE: Must select the P840/4G FIO Controller when an additional drive cage	
	is selected.	
	NOTE: Must select P840/4G Controller when apply 16SFF.	
	NOTE: Must select battery holder when purchase P440 P/N: 786710-B21.	
	NOTE: HPE ML150 Gen9Mini SAS P440/P840 Cable Kit must be selected P/N:	
	784606-B21 for P840 controller (2 cable kits are required for P840x1).	
	NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is required when ordering a controller card.	
	-	
	SAS Controller Options	777760 001
	HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers HPE Host Bus Adapter	727258-B21
	HP H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
	HP H240 1200 2-ports Ext Smart Host Bus Adapter	726907-B21 726911-B21
	HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter	761873-B21
	NOTE: Must select for H240 controller when selecting a Tape Drive.	701075-021
	NOTE: Cable Rule:	
	1 cable kit is required for Hot Plug 4LFF.	
	2 cable kits are required for below:	
	- Hot Plug 4+4 LFF (with additional drive cage)	
	- 8SFF	
	NOTE: If H240 is the primary controller and if HPE Mfg FIO Enable HBA Mode Setti then RAID is not allowed.	ing is selected,
	NOTE: B140i can't mix with any standup internal controller.	
	NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is required when ordering a c	controller card.
	HPE Cable Options	

~	NOTE For the complete many of tage drives outside days libraries and modia		
	HP ML150 Gen9 Smart Storage Battery Holder Kit	786710-B21	
	Battery Holder		
	Smart Array P840 Controller is installed in the server.		
	NOTE: HPE SmartCache comes standard (no licensing is required) if the HPE		
	Controllers is installed in the server.		
	NOTE: HPE SmartCache is supported when one of the supported Smart Array		
	HP SmartCache No Media 24x7 Technical Support Electronic License	D7S27AAE	
	HP SmartCache No Media 24x7 Technical Support Flexible License	D7S27A	
	HP SmartCache No Media 24x7 Technical Support 1 Svr License	D7S26A	
	Optional Software		
	HP ML150 Gen9 Mini SAS P440/P840 Cable Kit	784608-B21	
	HP ML150 Gen9 Mini SAS H240 Cable Kit	784606-B21	

HPE Tape Backup NOTE: For the complete range of tape drives, autoloaders, libraries and media

see: http://www.hp.com/go/tape. For hardware and software compatibility of HPE tape backup products see: http://www.hp.com/go/tape.

NOTE: Must select SAS controller to support internal SAS tape drives.

NOTE: Tape drive and HDD total amount can't exceed SAS controller support qty.

NOTE: Limited to H240 when select Tape Drive.

Tape Drives

HPE StoreEver LTO-7 Ultrium 15000 Internal Tape DriveBB873AHP StoreEver LTO-6 Ultrium 6650 SAS External Tape DriveEH964AHP StoreEver LTO-6 Ultrium 6650 SAS Internal Tape DriveEH963AHP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount KitCOL99AHP StoreEver LTO-6 Ultrium 6250 External Tape DriveEH970AHP StoreEver LTO-6 Ultrium 6250 Internal Tape DriveEH969AHP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mountEJ014BHP StoreEver LTO-5 Ultrium 3000 SAS External Tape DriveEH958BHP StoreEver LTO-5 Ultrium 3000 SAS Internal Tape DriveEH957BHP StoreEver LTO-5 Ultrium 3000 SAS Internal Tape DriveEH900BHP StoreEver LTO-5 Ultrium 3280 SAS External Tape DriveEH990BHP StoreEver LTO-5 Ultrium 1760 SAS (1) in 1U Rack-mount KitEH920BHP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount KitEH920BHP StoreEver LTO-4 Ultrium 1760 SAS Internal Tape DriveEH920BHP StoreEver LTO-3 Ultrium 920 SAS External Tape DriveEH920BHP StoreEver LTO-3 Ultrium 920 SAS External Tape DriveEH920BHP StoreEver LTO-3 Ultrium 920 SAS External Tape DriveEH948BHP StoreEver LTO-3 Ultrium 920 SAS External Tape DriveEH848BHP StoreEver LTO-3 Ultrium 920 SAS External Tape DriveEH848BHP StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2mK2R09ACableCableK2R10A
HP StoreEver LTO-6 Ultrium 6650 SAS Internal Tape DriveEH963AHP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount KitCOL99AHP StoreEver LTO-6 Ultrium 6250 External Tape DriveEH970AHP StoreEver LTO-6 Ultrium 6250 Internal Tape DriveEH969AHP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mountEJ014BHP StoreEver LTO-5 Ultrium 3000 SAS External Tape DriveEH958BHP StoreEver LTO-5 Ultrium 3000 SAS External Tape DriveEH957BHP StoreEver LTO-5 Ultrium 3280 SAS External Tape DriveEH900BHP StoreEver LTO-5 Ultrium 3280 SAS Internal Tape DriveEH990BHP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount KitEH920BHP StoreEver LTO-4 Ultrium 1760 SAS External Tape DriveEH920BHP StoreEver LTO-3 Ultrium 920 SAS External Tape DriveK2R09ACableK2R09AHPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2mK2R10A
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Cable HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 4m K2R10A
Cable
HPE Tape Storage Systems HPE StoreEver MSL6480
HPE StoreEver MSL6480 Scaleable Expansion ModuleQU626A
HPE StoreEver MSL6480 Scalable Base ModuleQU625A
HPE StoreEver MSL2024 O-drive Tape Library AK379A

 HPE StoreEver MSL4048 0-drive Tape Library
 AK381A

 NOTE: Please see the QuickSpecs for Technical Specifications and additional information:
 http://www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04111416

HPE Disk Backup	HPE RDX Removable Disk Backup System	
ŀ	HP RDX 2TB USB3.0 External Disk Backup System	E7X53B
ŀ	HP D3700 Enclosure	QW967A
ŀ	HP D3600 Enclosure	QW968A
ŀ	HP RDX+ 1TB External Backup System	B7B69B
ŀ	HP RDX+ 500GB External Backup System	B7B66B
ŀ	HP RDX+ External Docking System	C8S07B
N	IOTE: For the complete range of RDX drives and media see: <u>http://www.h</u> j	p.com/go/rdx . For hardware

and software compatibility of HPE disk backup products see: <u>http://www.hp.com/storage/SPOCK</u>.

HPE Disk Storage		
Systems	HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W3OA
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
	HP D6000 Dual I/O Module Disk Enclosure	QQ695A
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A
	HP D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	MOT59A
	HP D6000 w/70 6TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 420TB Bundle	MOT57A
	HP D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A
		1
HPE Power	HPE Basic Power Distribution Units (PDU)	
Distribution Units	HPE Basic Power Distribution Units (PDU) HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	H5M54A
		H5M54A H5M56A
Distribution Units	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal	
Distribution Units	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	H5M56A
Distribution Units	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW	H5M56A H5M55A
Distribution Units	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU	H5M56A H5M55A H5M57A
Distribution Units	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU	H5M56A H5M55A H5M57A H5M58A
Distribution Units	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU	H5M56A H5M55A H5M57A H5M58A H5M68A
Distribution Units	 HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP 	H5M56A H5M55A H5M57A H5M58A H5M68A H5M61A

HPE Basic 11kVA/60309 63A 3-wire 48A/230V Outlets (30) C13 (6) C19/Vertical INTL PDU	H5M71A
HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU	H5M75A
HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU	H5M63A
HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5- 20R/Vertical NA/JP PDU	H5M64A
HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M62A
HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M72A
HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6) C19/Vertical INTL PDU	H5M73A
HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	H5M67A
HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU	252663-D71
HPE Basic Modular 4.9kVA/L6-30P 24A/208V Outlets (4) C19/Horizontal NA/JP Core Only PDU	252663-D74
HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4) C19/Horizontal NA/JP PDU	252663-D75
HPE Basic Modular 7.3kVA/60309 3-wire 32A/230V Outlets (4) C19/Horizontal INTL Core Only PDU	252663-B33
HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4) C19/Horizontal INTL PDU	252663-B34
HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A
HPE Basic Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF513A
HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF519A
HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF511A
HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF518A
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs	
for information on additional options and product specifications.	
HPE Metered Power Distribution Units (PDU)	
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A

HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	G9Z06A 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 5.7kVA/L21-20P 16A/120-208V Outlets (13) C13 (3)5- 20R/Vertical NA/JP PDU	D9N52A
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 Outlets (32) C13 (4) C19/Vertical INTL PDU	D9N50A
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13 (3) C19/Vertical INTL PDU	D9N57A
HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N58A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) C19/Vertical NA/JP PDU	D9N61A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N62A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU	D9N54A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N59A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	G9Z07A
HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU	D9N63A
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (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 NOTE: Please see the <u>HPE Metered Power Distribution Units (PDU) QuickSpecs</u>	E2D53A
for information on additional options and product specifications.	
HPE Intelligent Power Distribution Unit (PDU)	
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF520A
HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF521A

HPE Intelligent I C19/Horizontal I	Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) NA/ IP PDU	AF522A
	Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)	AF523A
HPE Intelligent I	Modular 3Ph 11kVA/L22-20P 16A/240V Outlets (6) C19/Horizontal	AF900A
	Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6)	AF901A
C19/Horizontal N		
C19/Horizontal I		AF525A
HPE Intelligent I C19/Horizontal I	Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) NTL PDU	AF526A
HPE Intelligent I C19/Horizontal I	Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) NTL PDU	AF527A
	Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12)	AF535A
	Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12)	AF537A
HPE Intelligent I	Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12)	AF538A
C19/Horizontal I	N I L PDU Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6)	AF531A
C19/Horizontal N	, , ,	71 55 17
HPE Intelligent I C19/Horizontal I	Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) NA/JP PDU	AF532A
	Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6)	AF533A
	Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)	AF534A
C19/Horizontal I		
	gent PDU Extension Bar G2 Kit	AF547A
	s Power and UID LEDs Pair Standard Extension Bar	AF528A
	ee the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs on additional options and product specifications.	
	nd Switched Power Distribution Units (PDU)	
	vitched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical	H8B48A
NA/JP PDU		
HPE Metered Sv (1) C19/Vertical V	vitched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 WW PDU	H8B49A
HPE Metered Sv C19/Vertical NA	vitched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) / IP PDU	H8B50A
HPE Metered Sv	vitched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4)	H8B51A
	vitched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6)	H8B52A
C19/Vertical NA, HPE Metered Sv	/JP PDU vitched 3Ph 8.6kVA/L2190-30P 24A/208V Outlets (23) C13 C19 (1)	H8B53A
520R/Vertical N	A/JP PDU	
HPE Metered Sv C19/Vertical INT	vitched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) 'L PDU	H8B54A

Additional Options

	HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A			
	HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A			
	NOTE: Please see the <u>HPE Metered and Switched Power Distribution Units (P</u> for information on additional options and product specifications. NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UF</u>	•			
HPE Rack Mount	HPE Location Discovery Services				
Consoles, KVM	HP Location Discovery Services LCD8500 Kit	TL052A			
Switches, and	NOTE: Please see the HPE Location Discovery Services QuickSpecs				
Keyboards	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			
	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				
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21			
	HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33			
	HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21			
	HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21			
	HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21			

HP USB BFR with PVC Free DE Keyboard/Mouse Kit

HP USB BFR with PVC Free JP Keyboard/Mouse Kit

HP USB BFR with PVC Free IT Keyboard/Mouse Kit

HP USB BFR with PVC Free CN Keyboard/Mouse Kit

631358-B21

631360-B21

631362-B21

631364-B21

Additional Options

HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
HPE Other Options	
HP Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP Advanced Power Manager Kit	741192-B21
HP ConvergedSystem Door Branding Kit	TK815A
HP ConvergedSystem Rack Light Kit	TK816A
HP ConvergedSystem Rack Side Panel 1075mm Kit	TK817A
HP Tower to Rack Conversion Tray Universal Kit	417705-B21

HPE Uninterruptible HPE DirectFlow Three Phase UPS

Power Systems Power Unit (1U UPS) (UPS) HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System G9Y75A HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System AF478A Input/Output Module Options for 1U UPS HP 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 AF488A Input/Output Module HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 AF489A Input/Output Module HP 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated AF490A Input/Output Module HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output AF491A Module HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output AF492A Module

HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309	G9Y76A
Input/Output Module	
Power Unit (2U UPS)	
HP R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
Input/Output Module Options for 2U UPS	
HP 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309	AF483A
Input/Output Module	
HP 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated	AF485A
Input/Output Module	

Additional Options

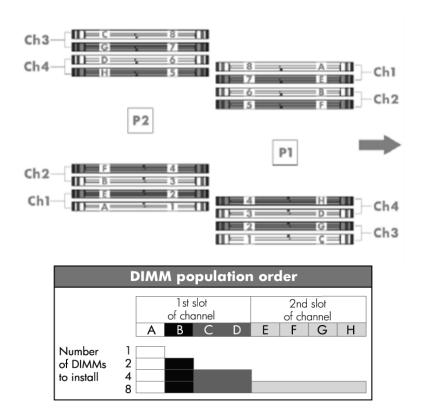
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	AF486A
Module	
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
HP 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	D9Q02A
Module	DIQUER
HP 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309	AF484A
Input/Output Module	
NOTE: All Input/Output Modules support dual output outlets except the AF484A.	
Battery Pack Options	
HP DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
HP DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HP WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power Syste	<u>m QuickSpecs</u>
for information on additional options and product specifications.	
HPE Tower UPS	
HPE T750 G4 UPS Models	
HP T750 G4 NA/JP Uninterruptible Power System	J2P85A
HP T750 G4 INTL Uninterruptible Power System	J2P88A
HPE T1000 G4 UPS Models	
HP T1000 G4 NA/JP Uninterruptible Power System	J2P86A
HP T1000 G4 INTL Uninterruptible Power System	J2P89A
HPE T1500 G4 UPS Models	
HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A
HP T1500 G4 INTL Uninterruptible Power System	J2P90A
HPE Rack/Tower UPS	
HPE R/T2200 G4 UPS Models	
HP R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
HPE R/T3000 G4 UPS Models	
HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
HP R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
R1500 G4 Models	
HP R1500 G4 NA Uninterruptible Power System	J2Q99A
HP R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
HP R1500 G4 INTL Uninterruptible Power System	J2R03A
R7000 Uninterruptible Power System (UPS)	
HP R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
HP R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
R5000 Uninterruptible Power System (UPS)	
HP R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
HP R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)	web page

NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page.

Additional Options

HPE USB and SD	HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
Options	HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21
	HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
HPE Care Pack	Installation & Start-up Services	
Services	HPE Installation ML350e/ML150 Service	U6D41E
	HPE Startup ML350e/ML150 Service	U6D43E
	Foundation Care	
	HPE 3 year Foundation Care 24x7 ML150 Gen9 Service	U7WR1E
	HPE 3 year Foundation Care 24x7 wDMR ML150 Gen9 Service	U7WR2E
	HPE 3 year Foundation Care 24x7 wCDMR ML150 Gen9 Service	U7WR3E
	Proactive Care	
	HPE 3 year Proactive Care 24x7 ML150 Gen9 Service	U7WT8E
	HPE 3 year Proactive Care 24x7 with DMR ML150 Gen9 Service	U7WT9E
	HPE 3 year Proactive Care 24x7 with CDMR ML150 Gen9 Service	U7WU0E

Memory Population guidelines



General Memory Population Rules and Guidelines

- . Install DIMMs only if the corresponding processor is installed.
- . If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- . To maximize performance, it is recommended to balance the total memory capacity between all installed processors and load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- . White DIMM slots denote the first slot to be populated in a channel.
- . Place the DIMMs with the highest number of ranks in the white slot when mixing DIMMs of different ranks on the same channel.
- . Do not mix RDIMMs or LRDIMMs.
- . Quad rank RDIMMs are not supported in HPE ProLiant ML150 Gen9 servers.
- . Quad rank LRDIMMs are capable of up to three DIMMs per channel.
- . RDIMMs operating at 1.2V.
- . 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.
- . There are four (4) channels per processor; eight (8) channels per server. There are three (2) DIMM slots for each memory channel; twenty-four (16) total slots. Memory channels1 and 3 consists of the two

(2) DIMMs that are furthest from the processor. Memory channel 2 and 4 consists of the two (2) DIMMs that are closest to the processor.

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

Memory Bandwid	th and Cap	acity			
[DIMM Type]	Regi	Registered DIMMs (RDIMMs)			
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank
DIMM Capacity	8GB	16GB	16GB	32GB	32GB
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
SLOTS THAT CAN	BE POPU	LATED			-
16 slot servers	16	16	16	16	16
ΜΑΧΙΜυΜ CAPAG	CITY (GB)	•			
	128	256	256	512	512
POPULATED DIM	M SPEED (I	MT/s)			
1 DIMM Per Channel	2400	2400	2400	2400	2400
2 DIMM Per Channel	2133	2133	2133	2133	2400
3 DIMM Per Channel	1866	1866	1866	1866	2400

DIMM slot and DIMM slot and configuration diagrams configuration

configuration diagram

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

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

	CPU1		CPU 2		
	Slot #	population order	Slot # population order		
Chnl 3	1	С	1 A	Chnl 1	

	2	G	2	E	
		CPU 1		CPU 2	
	Slot #	population order	Slot #	<pre># population order</pre>	
Chnl 4	3	D	3	В	Chnl 2
	4	Н	4	F	
		CPU 1		CPU 2	
	Slot #	population order	Slot #	<pre># population order</pre>	
Chnl 2	5	F	5	Н	Chnl 4
	6	В	6	D	
		CPU 1		CPU 2	
	Slot #	population order	Slot #	≠ population order	
Chnl 1	7	E	7	G	Chnl 3
	8	A	8	С	1

Memory Speed b Processor Model

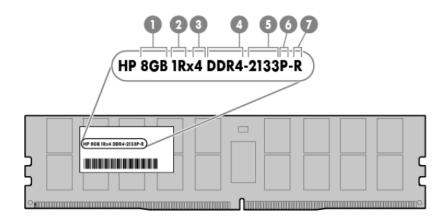
	Processor Models	Supported Memory Speeds
or Model	E5-2609v3, E5-2603v3	1600MHz
	E5-2640v3, E5-2630v3, E5-2620v3, E5-2630Lv3	1866MHz
	E5-2650Lv3, E5-2660v3, E5-2650v3	2133MHz
	E5-2609v4, E5-2603v4	1866MHz
	E5-2620v4, E5-2630Lv4, E5-2640v4, E5-2630v4	2133MHz
	E5-2650Lv4, E5-2660v4, E5-2650v4	2400MHz

Maximum Memory Capacity (Pre-	Pre Configured Models	Standard Memory	Optional Memory	Standard Memory Replaced with Optional Memory
	E5-2603v3	4GB (1x4GB)	484GB (15x32GB, 1x4GB)	512GB (16x32GB)
Models)	E5-2603v4, E5-2609v3, E5-2609v4	8GB (1x8GB)	488GB (15x32GB, 1x8GB)	512GB (16x32GB)
	E5-2620v3, E5-2620v4	16GB (1x16GB)	496GB (15x32GB, 1x16GB)	512GB (16x32GB)

DDR4 memory options part number decoder

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

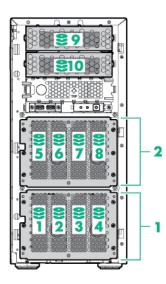
- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB



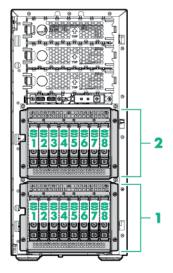
- 1. Capacity: 4GB/8GB/16GB/32GB
- 2. Rank: 1R = Single-rank; 2R = Dual-rank; 4R = Quad-rank
- 3. Data width: x4 = 4-bit; x8 = 8-bit
- 4. Memory generation: DDR4
- 5. Maximum memory speed: 2133 MT/s
- 6. CAS latency: P = 15
- 7. DIMM type: R = RDIMM (registered); L = LRDIMM (load reduced)

Storage

4-bay LFF non-hot-plug driv	ve model
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8-bay SFF hot-plug drive model



4-bay LFF hot-plug drive model

			Lland Duive Davia
8 X LFF	SATA/SSD	inon-not-plug	Hard Drive Bays

9-10

Media Bays

1-8

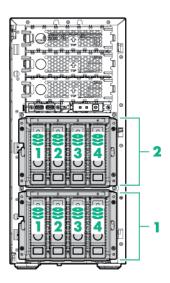
NOTE: When populating 10 LFF, not able to install Tape Drive or Optical Drive. Possible Configurations: 1) 8LFF +1 ODD+ 1 Tape Drive (Full/Half), or 2) 9LFF + 10DD, or 3) 9LFF + 1 Tape Drive (Full/Half).

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

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

2 x 1-4 4 x LFF SATA/SSD Hot Pluggable Hard Drive Bays

Storage



Maximum Storage Capacity -

Total (10 LFF Drive)80TBTotal (16 SFF Drive)61.44TB

Technical Specifications

System Unit	Tower Dimensions	17.03(H) x 7.87(W) x 24.41(D) in (43.26 x 20 x 62 cm)			
	Tower Weight	Minimum:	32lb (14.51kg)		
	-		41lb (18.60kg)		
	Input	Range Line	100 to 240 VAC		
	Requirements	Voltage	For 550W Power Supply:6.7 A (at 100 VAC)3.3 A (at 200 VAC)		
	(for Standard	Rated Input			
	460W	Current			
	PSU, see power	Rated Input	47 to 63 Hz		
	specifications	Frequency			
	tables	Rated Input	For 550 W Power Supply:< 670 W (at 100 VAC),< 660 W (at		
	for detail on 460W,	Power	200 VAC),		
	750W and 1200W power supplies)	I			
	BTU Rating	Maximum	For 550 W Power Supply:2201 BTU/hr (at 100 VAC),2153 BTU/hr (at 200 VAC)		
	Power	To review typical sy	ystem power ratings use the Power Advisor which is available via		
	Specifications the online tool located at URL: <u>http://www.hp.com/go/proliant-ener</u>	ted at URL: http://www.hp.com/go/proliant-energy-efficient			
		or http://www.hp.com/go/hppoweradvisor - Click on the system of interest.			
		Example: ML150 Gen9-Follow the instructions of the next screens.			
	Power Supply Output	Rated Steady- State Power	For 550 W Power Supply:550 W (at 100 VAC),550 W (at 200 VAC)		
		Maximum Peak Power	For 550 W Power Supply:550 W (at 100 VAC),550 W (at 200 VAC)		
	System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°Cper every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).		
			For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3048 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/ashrae		
			For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at		

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

Technical Specifications

		of 3048 m (10,000 ft). The approved hardware configurations for this system are listed at the
		URL: http://www.hp.com/servers/ashrae
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault. NOTE: Supports A3 extended ambient, A4 extended ambience will be available in early 2015.
	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) of24°C (75.2°F) dew point or 90% relative humidity.
	Non-operating	5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457m/min (1500 ft/min).
Acoustic Noise	average bystande product is operati measured in acco ISO 9296 (ECMA	lared A-Weighted sound power levels (LWAd) and declared r position A-Weighted sound pressure levels (LpAm) when the ng in a 23°C ambient environment. Noise emissions were rdance with ISO 7779 (ECMA 74) and declared in accordance with 109).
	Idle	
	L WAd	3.8 Bels (1P LFF Non Hot-Plug Entry)
		3.8 Bels (1P LFF Hot-plug Base)
		4.3 Bels (1P SFF Hot-plug Performance)
	LpAm	22 dBA (1P LFF Non Hot-Plug Entry)
		22 dBA (1P LFF Hot-plug Base)
		25 dBA (1P SFF Hot-plug Performance)
	Operating	
	L WAd	3.8 Bels (1P LFF Non Hot-Plug Entry)
		3.8 Bels (1P LFF Hot-plug Base)
		4.1 Bels (1P SFF Hot-plug Performance)
	LpAm	23 dBA (1P LFF Non Hot-Plug Entry)
		22 dBA (1P LFF Hot-plug Base)
		25 dBA (1P SFF Hot-plug Performance)
	NOTE: Configura	tions tested for 1P LFF Entry models included two (2) 500GB
	LFF SATA Midlin	e HDD and Windows 2012 Enterprise 64-bit.
	NOTE: Configura	tions tested for 1P and 2P SFF models included two (2) 500GB
		e HDD and Windows 2012 Enterprise 64-bit.
		d sound levels apply to standard shipping configurations.
	Additional option	ns may result in increased sound levels.

Technical Specifications

Emissions	FCC Rating	Class A	
Classification	Normative	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003;	
	Standards	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	Four			
Smart Array B140i Controller					
Controller	PCI link rate	4 Gb/s I SATA			
	Storage protocol support				
	SAS/SATA peak data transfer rate	6 Gb/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	HPE SSA, SMH, SIM			
	management				
	Warranty	Server warranty			
	HPE Secure Encryption license	Not Supported			
	HPE SmartCache License	Not Supported			
	HPE Smart Storage	Supported			
	Administrator				
-	Network Interface	10Base-T/100Base-TX/1000Base-TX			
Adapter	Compatibility	IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX			
	Data Transfer Method	PCI Express, two lanes (x2)			
	Controller	BCM5717			

Technical Specifications

	Network Transfer Rate	10Base-T (Half- Duplex) 10Base-T (Full-	10 Mb/s per port, 40 Mb/s combined
		Duplex) 100Base-TX (Half-	20 Mb/s per port, 80 Mb/s combined
		Duplex) 100Base-TX (Full-	100 Mb/s per port, 400 Mb/s combined
		Duplex) 100Base-TX (Half-	200 Mb/s per port, 800 Mb/s combined
		Duplex) 100Base-TX (Full-	1000Mb/s per port, 4000 Mb/s combined
	Connector	Duplex) RJ-45	2000Mb/s per port, 8000 Mb/s combined
	Cable Support	10 Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) -TX Category 5 or higher UTP; up to 328 ft (100 m)
Environment- friendly Products and Approach	End-of-life Management and Recycling	Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green . To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.	
		information for each (product disassemb web site at: http:// recyclers and other	ctive (2002/95/EC) requires manufacturers to provide treatment h product type for use by treatment facilities. This information bly instructions) is posted on the Hewlett Packard Enterprise www.hp.com/go/green . These instructions may be used by WEEE treatment facilities as well as Hewlett Packard Enterprise to integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
08-Apr-2016	From Version 11 to 12	Changed	HPE Processors section was revised.
31-Mar-2016	From Version 10 to 11	Added	Added Intel Xeon E5-2600 v4 Processor support, new HPE Gen9 Standard Memory, and new HPE 900W AC 240VDC Redundant Power.
		Changed	Maximum Internal Storage, Power Supplies, Embedded Management, Service and Support, Pre- configured Models, and Memory sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 9 to 10	Added	New HDD offering was added to HPE Drives.
		Changed	HPE Power Supplies, HPE Disk Backup, and HPE Power Distribution Units (PDUs) were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
8-Jan-2016	From Version 8 to 9	Added	New Smart Buy model was added to the NA version only.
1-Dec-2015	From Version 7 to 8	Changed	On System Management Chipset, Embedded Management, Server utilities, and HPE Tape Backup were revised.
			Product images were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Sep-2015	From Version 6 to 7	Added	Added new 6Gb SATA Solid State Drives.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 5 to 6	Added	New Solid State Drives offering.
			Added new graphic options.
		Changed	Service and Support was updated.
			Maximum Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
1-Jun-2015	From Version 4 to 5	Added	New Hard Drives were added to Core Options.
			New RDX+ external backup options were added.
		Changed	Standard Features and HPE Power Supplies were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
24-Apr-2015	From Version 3 to 4	Added	Added 813534-B21 and 813535-B21 to HPE Power Supplies.
30-Mar-2015	From Version 2 to 3	Added	New Hard Drives offering.
			Optional Software added to HPE Storage Controllers.

Summary of Changes

			Added HPE Smart Array P841/4GB FBWC 12Gb 4- ports Ext SAS Controller.
		Changed	HPE Memory and HPE Disk Storage Systems were updated.
2-Sep-2014	From Version 1 to 2	Added	Added HPE Insight Software section and Network controller sections.
		Changed	Added new HPE Drives and new G4 UPS models. HPE Processors, HPE Memory, HPE Drives, HPE
		Changed	Tape Backup, HPE Disk Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, HPE
			Uninterruptible Power Systems (UPS), and HPE USB and SD Options sections were updated.





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

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