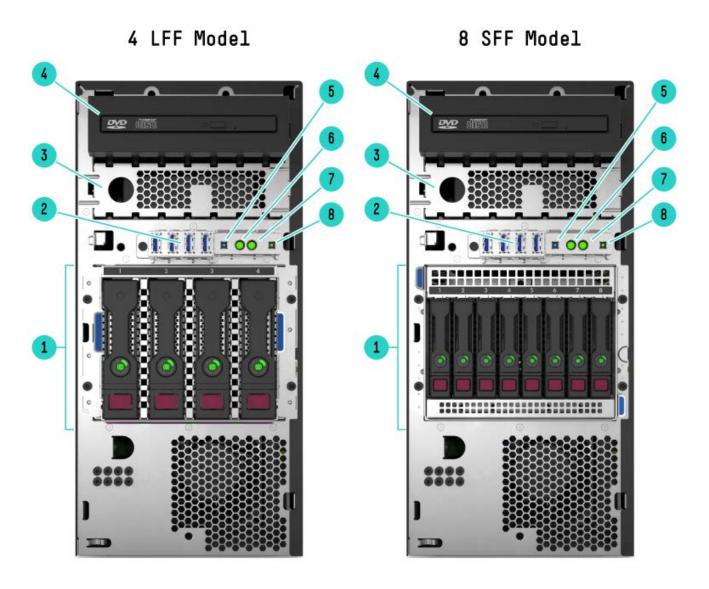
Overview

HPE ProLiant ML30 Generation9 (Gen9)

HPE ProLiant ML30 Gen9, delivers a full featured single-socket tower server with the right features at a competitive price, easy to use and maintain for growing small businesses and remote branch offices.



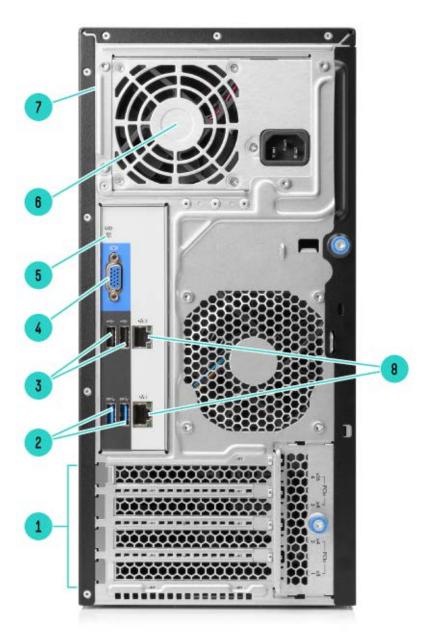
Front View (details for 4LFF and 8SFF)

- 1 Four (4) LFF or Eight (8) SAS/SATA HDD cage
- 3 Media Drive Blank
- 5 Power On/Standby button and system power LED button
- 7 Health LED

- 2 Four (4) USB 3.0 connectors
- 4 9.5mm Slim SATA DVD-ROM or DVD RW Optical Drive
- 6 NIC status LED
- 8 UID (unit identification) button/LED



Overview

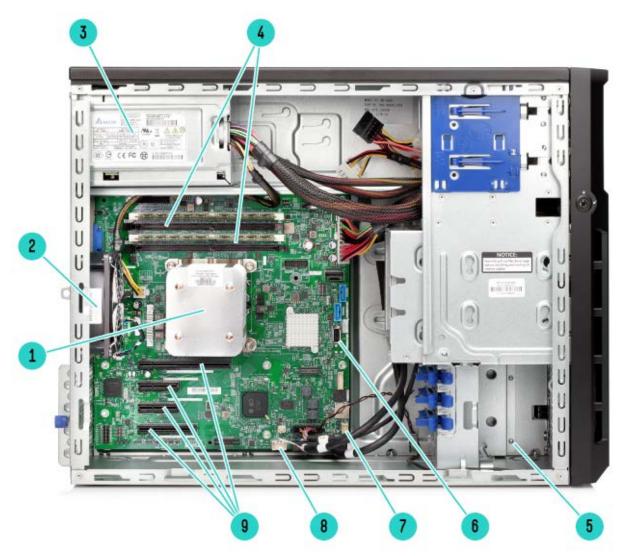


Rear View

- 1 PCI Slots (Slots 1-4)
- 3 USB 2.0 (2)
- 5 UID LED
- 7 HPE 350W Power Supply

- 2 USB 3.0 (2)
- 4 Video Connector
- 6 Power Supply Power Fan
- 8 NIC1/shared iLO port (lower), NIC2 (upper)

Overview



Internal View

- 1 One (1) processor and heatsink
- 3 Power Supply
- 5 Front PCIe fan (optional)
- 7 Gen9 Smart Storage Battery Holder Kit
- 9 Four (4) PCIe expansion slots

- 2 System Fan
- 4 Four (4) DDR4 DIMM slots
- 6 Two (2) Internal USB 2.0 connectors (USB Type A, Tape Drive Header)
- 8 MicroSD slot

QuickSpecs

Standard Features

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

Intel® Xeon® processor E3-1200v5 quad core processor family is designed to deliver the best combination of performance, built-in capabilities, and cost-effectiveness. The product also supports Intel® Pentium® and Intel® Core-i3 dual core processors. Choose one of the following processors based on the model:

One of the following	Model	CPU frequency	Cores	L3 Cache	Power	DDR4 Hz	
depending on model	G4400	3.3GHz	2	3MB	54W	2133	
	G4500	3.5GHz	2	3MB	51W	2133	
	i3-6100	3.7GHz	2	3MB	51W	2133	
	i3-6300	3.8GHz	2	4MB	51W	2133	
	E3-1220v5	3.0GHz	4	8MB	80W	2133	
	E3-1230v5	3.4GHz	4	8MB	80W	2133	
	E3-1240v5	3.5GHz	4	8MB	80W	2133	
	E3-1270v5	3.6GHz	4	8MB	80W	2133	
	E3-1240Lv5	2.1GHz	4	8MB	25W	2133	
				i3 processors.			
model	Intel® C236 Chipse NOTE: For more in URL: http://www.i	t formation rega	rding Intel	• ® chipsets, plea	ase see the fo	llowing	
depending on model Chipset On System Management Chipset	Intel® C236 Chipse NOTE: For more in	t formation rega ntel.com/prod PHPE iLO4 2.0 ser space config	rding Intel ucts/serve or later), 4	[®] chipsets, plea er/chipsets/ GB NAND			more in

Memory Protection ECC

Network	HPE Ethernet 1Gb 2-port NC332i Adapter
Controller	

Expansion Slots

Expansio n Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
4	PCle 3.0	x16	x16		Full length/full height	
3	PCle 3.0	хl	x4		Full length/full height	
2	PCle 3.0	x1	x4		Full length/full height	

Qu	ick	Sp	ecs
G U		<u> </u>	~~~

	1 PCle 3.		x8 umber of physic	Half Length/Full Height al electrical lanes running to the	connector.	
Storage Controller One of the following depending on model	NOTE: B140i can't n Performance Models	HPE Dynamic Smart Array B140i Controller It mix with any standup internal controller. lels HPE Dynamic Smart Array B140i Controller It mix with any standup internal controller.				
Internal Storage Devices One of the following depending on model	Optical Drives Hard Drives Hard Drive Bays	Optional SATA 9.5mm DVD-ROM Optical Drive Optional SATA 9.5mm DVD RW Optical Drive None ship standard 4 LFF drive bays (non-hot-plug and hot-plug) 8 SFF hot-plug drive bays NOTE: HPE ProLiant ML30 Series servers offer both SFF and LFF versions in CTO. NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either P/N 666987-B21: HPE SFF HDD Blank Kit or P/N 666986-B21: HPE LFF HDD Blank Kit.			hard drive ive blanks,	
Maximum Internal Storage One of the following depending on model	Hot Plug LFF SAS Hot Plug SFF SAS Hot Plug LFF SATA Hot Plug SFF SATA Non-Hot Plug LFF S/ Hot Plug SFF SATA S Hot Plug LFF SATA S	ATA SSD	CAPACITY 32TB 16TB 32TB 16TB 16TB 960GB 480GB	CONFIGURAT 4 x 8TB 8x 2TB 4 x 8TB 8 x 2TB 4 x 4TB 8 x 120GE 4 x 120GE	3	
Power Supply One of the following depending on model	for enterprise class et Level power supply of servers. The HPE 350W FIO ProLiant Gen9 Essen features optimized for The HPE 460W (Red support power redun loss. With an 80 Plus operating expenses w All pre-configured se	nt Power Supplies pro- ficiency and re- power Supply tial servers. It r the Gen9 Es lundant) AC P dancy in ProL Gold power e vhile protection rvers ship with cluded with ea	ply rovide lower-cos eliability while m een designed sp is the standard, features Bronze sential-series ra ower Supply can iant ML30 Serve fficiency rating g against trappe n a standard 6-fe ach standard AC	n be configured with redundancy e ers, providing additional protection (up to 92%), this power option hel ed power capacity in the data cent pot IEC C-13/C-14 jumper cord (A power supply option kit. If a differ	re costs. All Entry- Essential Series option for most HPE ency with a set of enablement kit to n against power ps to reduce er. OKO2A). This	

To review the power requirements for your selected system, please use the HPE Power Advisor Tool located at <u>http://www.hp.com/go/hppoweradvisor</u>.

Power Specification and Technical Content for supported power supplies can be found at: <u>https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111541</u>.

Required Cabling Server Power Cords

The ProLiant ML30 server is a tower server that ships standard with a 6 country specific NEMA power cord that allows connection to wall outlets in a home or office. If customers require additional local power cords, they can check the power cord matrix for the appropriate country specific SKU.

System Fans One of the following depending on model	1P model system fan	Non-redundant One (1) Non-redundant system fan	Redundant		
model	1P model PCIe fan	Non-redundant One (1) Non-redundant PCIe fan	Redundant		
Interfaces	Video	1 (rear)			
	Network RJ-45 (Ethernet)	2 (1 shared for HPE Integrated Li	ghts-Out)		
	Micro SD Slot	1 (internal)	-		
		not a hot-pluggable device. Customers s -SD slot while the server is powered.	hould not attempt to plug a		
	USB 3.0	6 (4 front, 2 rear)			
	USB 2.0	4 (2 rear, 1 internal standard USB	, 1 internal USB header)		
	supports VMWare 5.5 U3 and 6.0 U1. NOTE: For more information on HPE's 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/portal/site/hpsc?ac.admitted=1447391526103.125225703.2 938120508.				
Upgradeability	Upgradeable to 4 cores NOTE: Total 2 or 4 cores. Up to 4 DIMM slots available Up to 8 SFF Hard Drive Bays; All PCIe3.0 I/O slots for additi Redundant Power Supply Optical Drive Bay NOTE: Up to 2.		sion		
Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support				

	WOL Support Microsoft® Logo c				
	USB 2.0 /3.0 Supp	port			
Graphics	 1280 x 1 1920 x 1 HPE iLO 4 On System 16 MB FI 	c G200 video standard .024 (32 bpp) .200 (16 bpp) stem Management Memory ash DDR 3 with ECC (112 MB after ECC and video)			
HPE Server UEFI/Legacy ROM	and more secured HPE ProLiant Ger Boot Mode. NOTE: The UEFI	e Firmware Interface (UEFI) is an industry standard that provides better manageability I configuration than the legacy ROM while interacting with your server at boot time. In platform defaults to UEFI and can be factory or field configured for Legacy BIOS System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) for more information, please visit http://www.hpe.com/servers/uefi.			
		indre information, please visit intp://www.npe.com/servers/uen.			
	UEFI enables num • Secure Be	nerous new capabilities specific to HPE ProLiant servers such as: pot			
	• Operating	g system specific functionality			
	Support f	or > 2.2 TB (using GPT) boot drives			
	• USB 3.0 S	Stack			
	Embedde	ed 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.				
		Setting (758959-B22) can be selected to configure the system in Legacy mode in ur HPE ProLiant Gen9 Server.			
Form Factor One of the following depending on		(4U) chassis with feet/bezel: Height x 6.89" (17.5cm) Width x 18.71" (47.52cm) Length			
model	8 SFF Drive Bay Cage: 4.6" (11.74cm) Height x 5.74" (14.57cm) Width x 4.79" (12.15cm) Length				
	4 LFF Drive Bay C 4.6" (11.72cm) He	Cage: eight x 5.74" (14.57cm) Width x 6.90" (17.54cm) Length			
Embedded Management	HPE Integrated Lights-Out (HPE iLO)	Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Not available on ML10 Gen9. Learn more at http://www.hpe.com/info/ilo .			

	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <u>http://www.hpe.com/servers/uefi</u> .
	RESTful API	RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi .
	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning .
	Embedded Remote Support	The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore.
Server utilities	Smart Update	Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP) and smart components. Learn more at http://www.hpe.com/servers/smartupdatemanager .
	HPE Systems Insight Manager (HPE SIM)	HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at http://www.hpe.com/servers/hpsim .
	Scripting Tool Kit and Windows PowerShell	Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at http://www.hpe.com/servers/proliant/stk or http://www.hpe.com/servers /powershell.
	RESTful Interface Tool	RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at http://www.hpe.com/info/resttool .
	HPE iLO Mobile Application	Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: http://www.hpe.com/info/ilo/mobileapp .
	HPE Insight Online	HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty, Care Pack or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at http://www.hpe.com/info/insightonline/explore.

Power switch security Administrator's password TPM 1.2 TPM 2.0 UEFI

WarrantyThis product is covered by a global limited warranty and supported by HPE Services and a worldwide
network of HPE Authorized Channel Partners resellers. Hardware diagnostic support and repair is
available for three years from date of purchase. Support for software and initial setup is available for 90
days from date of purchase. Enhancements to warranty services are available through HPE Care Pack
services or customized service agreements. Hard drives have either a one year or three year warranty;
refer to the specific hard drive QuickSpecs for details.

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

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

Optional Features

Embedded Management	iLO Essentials	HPE iLO Essentials is the preferred license for small and medium business that offers full remote server management capabilities for small and medium business via the Integrated Remote Console (IRC), virtual media, and e-mail based alerts. Learn more about HPE iLO Essentials at http://www.hpe.com/servers/iLO/essentials .		
	iLO Scale-Out	HPE iLO Scale-Out is the preferred license built for web hosting, cloud service providers, and high performance computing data centers, managing massive scale out environments for the DL 100 and 10 series servers, not available for ML servers. This license offers sophisticated scripting tools that provides remote access through Text Console via SSH, Dynamic power capping, Email-based Alerting and proactive notifications. For more information, visit <u>http://www.hpe.com/servers/iLO/scale-out</u> .		
	iLO Advanced	HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at <u>http://www.hpe.com/servers/iloadvanced</u> .		
Server Management	HPE Insight Control	HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see <u>http://www.hpe.com/info/insightcontrol</u> .		
HPC Interconnects	under the HPE C by Hewlett Pack be defined with configure HPEC	formance Computing (HPC) interconnect technologies are available for this server Cluster Platform product portfolio. These high-speed interconnects are fully supported ard Enterprise when they are part of these configure to order clusters. Solutions can a lot of flexibility with the help of configuration tools. Please visit the following URL to Clusters with InfiniBand ttp://www.hp.com/techservers/clusters/ucp/index.html		
Storage Software	Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than Hewlett Packard Enterprise storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities. Storage software that gets the job done:			
	Whether protection busines • Data Au Hewlett retrieva migratin • Storage Hewlett and pro	rotection and Recovery Software r you're a large enterprise or a smaller business, Hewlett Packard Enterprise data on and recovery software will cost-effectively protect you against disaster and ensure s continuity. rchive and Migration Software Packard Enterprise storage software enables you to comply with data retention and I requirements, improve application performance, and reduce costs by efficiently ng infrequently accessed or less valuable data to lower cost storage. Resource Management Software (SRM) Packard Enterprise storage resource management software reduces operational costs vides the command and control foundation you need to efficiently manage and visualize ysical and virtual environments.		

Optional Features

• 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 configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. https://h22174.www2.hp.com/SimplifiedConfig/Index.

Service and Support

HPE Support 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 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. Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Connect your Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² diagnostic accuracy and a single devices consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support. 1- IDC 2 - HP CSC reports 2014 - 2015 Recommended **Basic: HPE Foundation Care NBD, three-year Support Service** HPE Foundation Care Next Business Day connects you to Hewlett Packard Enterprise during business hours Support for assistance on resolving issues – This service features need based next business day hardware onsite response and software call back within two hours. In addition, Collaborative software support and provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems. https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en Standard: HPE Foundation Care 24x7, three-year Support Service HPE Foundation Care 24x7 gives you access to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues. This service includes need based Hardware onsite response within four hours. In addition, collaborative software support is included in this service that provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems. https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en Optimized: HPE Proactive Care* with 24x7 coverage, three year Support Service HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers. Parts and Hewlett Packard Enterprise will provide Hewlett Packard Enterprise-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and **Materials** materials for available and recommended engineering improvements. Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services. The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Related Services **HPE Server Hardware Installation** Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf

Service and Support

	HPE Installation and Startup Service Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems, C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux).
	HPE Technology Services Support Credits Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.
HPE Education Services	Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. <u>http://www.hpe.com/ww/learn</u>
HPE Support Center	The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers.
	Learn more http://www.hpe.com/support/hpesc
	The Hewlett Packard Enterprise Support Center Mobile App [*] allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.
	*HPE Support Center Mobile App is subject to local availability.
	For more information: http://www.hpe.com/services

Pre-configured Models

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

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

	Base Models	Performance Models				
[SKU Number]	824379-xx1	830893-xx1				
Model Name	HPE ProLiant ML30 Gen9 E3-1220v5 1P 4GB-U B140i 4LFF SATA 350W PS Base Server	HPE ProLiant ML30 Gen9 E3-1240v5 1P 8GB-U B140i 4LFF SATA 460W RPS Perf Server				
Processor	Intel [®] Xeon [®] E3-1220v5	Intel [®] Xeon [®] E3-1240v5				
Number of Processors	Or	ne				
Memory	4GB (1x4GB UDIMMs, 2133 MHz)	8GB (1x8GB UDIMMs, 2133 MHz)				
Network Controller	Broadcom 5720	Dual-port 1GbE				
Storage Controller	HPE Dynamic Sn	nart Array B140i				
Hard Drive	None ship standard; includ	es 2 LFF hard drive blanks				
Internal Storage	4 LFF HDD Ba	ays (Hot Plug)				
Optical Drive Bay	1; (Optional: DVD	-ROM, DVD-RW)				
Optical Drive	No	ne				
PCI-Express Slots	4 PCle 3	3.0 slots				
Power Supply	(1) 350W ATX Power Supply	(1) 460W Redundant Power Supply				
Fans	1 non hot plug,	non-redundant				
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional)					
Form Factor	Tower	Tower (4U)				
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.					
	NOTE: APJ Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.					

Country Code Key	xx1 = B21	Worldwide
	xx1 = 001	US
	xx1 = 421	EU
	xx1 = 031	UK
	xx1 = 371	AP
	xx1 = 291	Japan
	xx1 = AA1	PRC
	All and the second s	

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

Configuration Information - Factory Integrated Models

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

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

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

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

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

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

[Chassis]	HPE ProLiant ML30 Gen9	HPE ProLiant ML30 Gen9	HPE ProLiant ML30 Gen9	
	Non-hot Plug 4LFF	Hot Plug 4LFF Configure-to-	Hot Plug 8SFF Configure-to-	
	Configure-to-order Server	order Server	order Server	
SKU Number	823401-B21	823402-B21	823403-B21	
Processor	1	1	1	
DIMM Slots	4	4 DIMM slots for UDIMM DDR4 Memory		
Storage Controller		HPE Dynamic Smart Array B140i		
PCle		4 PCIe 3.0 slots		
Drive Cage	4LFF Non Hot Plug	4LFF Hot Plug	8SFF Hot Plug	
Network Controller		Broadcom 5720 Dual-port 1GbE		
Fans		1 non hot plug, non-redundant		
Management	iLO Managem	iLO Management (standard), Intelligent Provisioning (standard)		
USB	4 front, 4 rear, 2 internal			

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

HPE Select one processor from Core Options-Processor section below

Processors

- Select one xxxxxx-L21.
- Only one processor 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[®] C236 Chipset E3-1200 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 1200x v#, 1 is the number of CPU, 2 is socket type/segment designation, O0 = Processor SKU, x = L for low power SKUs and v# (not yet designated) is the version number.

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

- HPE memory from previous generation servers is not qualified or warranted with this HPE ProLiant Server.
- HPE Standard Memory (UDIMM) is required to realize the memory performance improvements and enhanced functionality listed in this document for this HPE ProLiant Server.
- With one processor installed, four DIMMs slots are available.
- For more information on ProLiant Energy Efficient Features, see: <u>http://www.hp.com/go/proliant-energy-efficient</u>.

Configuration Information - Factory Integrated Models

 Depending on the memory configuration and processor model, the memory speed would run at 2133MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: <u>http://www.hpe.com/go/ddr4config</u>.

HPE Power
Supplies

- Select one or more power supplies from Core Options-Power Supplies section below:
 Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <u>http://www.hpe.com/go/hpepoweradvisor</u>.
 - 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	elect a standup NIC adapter from Core Options-Networking section below,		
	 Please see the QuickSpecs for Technical Specifications and additional information: <u>http://www.hpe.com/go/ProLiantNICs</u>. These options are upgradeable and can be changed from the original configuration after the server is shipped. For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 		
HPE 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 redesigned 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 Graphics Options	Select one or more graphics adapter from Additional Options section below.		
ophons	• Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located at: <u>http://www.hpe.com/go/hpepoweradvisor</u> .		
	• This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.		
HPE 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. 		

Configuration Information - Factory Integrated Models

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

HPE Cooling Select one or more Fan Kits from Core Options section below. **Options**

- This section may contain FIO options, please see HPE Cooling Options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Storage	Select one or more Storage options from Additional Options section below.
Controllers	
	• The embedded B1/:0i controller will operate in LIEEL only mode. For la

- 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 an HPE approved configurator. Contact your local sales representative for additional information.

HPE Unique Options	 HPE ML30 Gen9 Slim Optical Disk Drive Enablement Kit HPE ML30 Gen9 Front PCI Redundant Fan Kit NOTE: Required for any PCI-E card. HPE ML30 Gen9 350W E-star 2.0 Power Supply Kit HPE ML30 Gen9 4U Redundant Power Supply Enablement Kit HPE ML30 Gen9 4 Large Form Factor Hot Plug Hard Drive Cage Kit NOTE: The LFF Kit is a backplane kit designed for going from NHP LFF to hot-plug LFF. 	820288-B21 820290-B21 822384-B21 822607-B21 822608-B21
	HPE ML30 Gen9 8 Small Form Factor Hot Plug Hard Drive Cage Kit NOTE: The SFF Kit is the cage plus backplane and designed to convert from any LFF configuration to SFF.	822756-B21
	HP Tower to Rack Conversion Tray Universal Kit NOTE: Require HPE ML30 Gen9 Front PCI Fan Kit (820290-B21). NOTE: ML30 Gen9 is not designed for a data center rack application environment, the Tower to Rack setting can be located in the office environment up to 35C ambient.	417705-B21
	HPE ML30 Gen9 Tape Drive Cable Kit NOTE: Max=2 1pc required per LTO int tape drive or per RDX USB int disk backup sys if selected together with 350W ES1.0 or ES2.0 power supply. 1pc required when 2pcs of Optical Drives were selected together with 350W ES1.0 or ES2.0 power supply. This cable is not required when only 1pc of Optical drive is selected.	851615-B21
HPE Processors	E3-1200v5 series Processors	
	HPE ML30 Gen9 Intel® Xeon® E3-1220v5 (3.0GHz/4-core/8MB/80W) FIO Processor Kit	820293-L21
	HPE ML30 Gen9 Intel® Xeon® E3-1230v5 (3.4GHz/4-core/8MB/80W) FIO Processor Kit	823371-L21
	HPE ML30 Gen9 Intel® Xeon® E3-1240Lv5 (2.1GHz/4-core/8MB/25W) FIO Processor Kit	820299-L21
	HPE ML30 Gen9 Intel® Xeon® E3-1240v5 (3.5GHz/4-core/8MB/80W) FIO Processor Kit	823373-L21
	HPE ML30 Gen9 Intel® Xeon® E3-1270v5 (3.6GHz/4-core/8MB/80W) FIO Processor Kit	823375-L21
	Intel® Core i3-6000 series Processors HPE ML30 Gen9 Intel® Core™ i3-6300 (3.8GHz/2-core/4MB/51W) FIO Processor Kit	823379-L21
	HPE ML30 Gen9 Intel® Core™ i3-6100 (3.7GHz/2-core/3MB/51W) FIO Processor Kit	837095-L21
	Intel [®] Pentium [®] G4000 series Processors	
	HPE ML30 Gen9 Intel® Pentium® G4400 (3.3GHz/2-core/3MB/54W) FIO Processor Kit	820295-L21
	HPE ML30 Gen9 Intel® Pentium® G4500 (3.5GHz/2-core/3MB/51W) FIO Processor Kit	823389-L21

HPE Memory	Unbuffered DIMMs (UDIMMs)	
	HPE 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Unbuffered Standard Memory Kit	805667-B21
	HPE 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Unbuffered Standard Memory Kit	805669-B21
	HPE 16GB (1x16GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Unbuffered Standard Memory Kit	805671-B21
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Unbuffered Standard Memory Kit	819880-B21
HPE Optical Drives	S HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
	HPE ML30 Gen9 Slim Optical Disk Drive Enablement Kit NOTE: Max=1 if selected together with 460W Hot Plug Power Supply.	820288-B21
HPE Drives	NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, f server backplane) should operate at the same data transfer rate or the system bandwinegotiated down to an acceptable level for all components.	width will be
	NOTE: Hard drives have either a one year or three year warranty; refer to the specific QuickSpecs for details.	c hard drive
	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
	HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-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 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 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
	HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21
	HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
	HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	628065-B21
	HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives.	659339-B21

SAS drives require the selection of a SAS controller. See card lists in Controllers	
section. If B140i is the primary controller, user can only select SATA drives.	
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785069-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801882-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801884-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801886-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801888-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659337-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659341-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-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 NOTE: User may select any combination of SAS or SATA Hard Drives.	765466-B21
SAS drives require the selection of a SAS controller. See card lists in Controllers section.	
If B140i is the primary controller, user can only select SATA drives.	
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
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 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr	737394-B21 737261-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr	
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive 	737261-B21
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive 	737261-B21 765424-B21
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. 	737261-B21 765424-B21 793699-B21
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. SAS drives require the selection of a SAS controller. See card lists in Controllers section. 	737261-B21 765424-B21 793699-B21
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. SAS drives require the selection of a SAS controller. See card lists in Controllers section. If B140i is the primary controller, user can only select SATA drives. 	737261-B21 765424-B21 793699-B21
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. SAS drives require the selection of a SAS controller. See card lists in Controllers section. If B140i is the primary controller, user can only select SATA drives. 	737261-B21 765424-B21 793699-B21 793703-B21
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. SAS drives require the selection of a SAS controller. See card lists in Controllers section. If B140i is the primary controller, user can only select SATA drives. HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive 	737261-B21 765424-B21 793699-B21 793703-B21 761477-B21
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. SAS drives require the selection of a SAS controller. See card lists in Controllers section. If B140i is the primary controller, user can only select SATA drives. HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive 	737261-B21 765424-B21 793699-B21 793703-B21 761477-B21 695510-B21
 HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. SAS drives require the selection of a SAS controller. See card lists in Controllers section. If B140i is the primary controller, user can only select SATA drives. HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive 	737261-B21 765424-B21 793699-B21 793703-B21 761477-B21

HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-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	765257-B21
Drive	,
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard	765259-B21
Drive	
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty	793671-B21
Hard Drive	
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty	793669-B21
Hard Drive	
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21
NOTE: User may select any combination of SAS or SATA Hard Drives.	
SAS drives require the selection of a SAS controller. See card lists in Controllers	
section.	
If B140i is the primary controller, user can only select SATA drives.	
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 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
NOTE: User may select any combination of SAS or SATA Hard Drives.	
SAS drives require the selection of a SAS controller. See card lists in Controllers	
section.	
If B140i is the primary controller, user can only select SATA drives.	
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
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 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 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard	765253-B21
Drive	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard	765255-B21
Drive	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty	793667-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty	793667-B21 793665-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793665-B21 793683-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard	793665-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793665-B21 793683-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard	793665-B21 793683-B21
 HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. 	793665-B21 793683-B21
 HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. If B140i is the primary controller, user can only select SATA drives. SAS drives 	793665-B21 793683-B21
 HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. If B140i is the primary controller, user can only select SATA drives. SAS drives require the selection of a SAS controller. See card lists in Controllers section. 	793665-B21 793683-B21
 HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive NOTE: User may select any combination of SAS or SATA Hard Drives. If B140i is the primary controller, user can only select SATA drives. SAS drives require the selection of a SAS controller. See card lists in Controllers section. 6G SATA SC Hot Plug LFF 7.2K (3.5-inch) Standard Drives 	793665-B21 793683-B21 793695-B21

QuickSpecs

	6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1 Solid St	ate Drives
	HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764923-B21
	6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
	HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
	6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives	
	HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816899-B21
	6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD	
	HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-B21
	HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816985-B21
	Hard Drive Kits	
	HPE ML30 Gen9 8 Small Form Factor Hot Plug Hard Drive Cage Kit	822756-B21
	HPE ML30 Gen9 4 Large Form Factor Hot Plug Hard Drive Cage Kit	822608-B21
	HP Large Form Factor Hard Drive Blank Kit	666986-B21
	HP Small Form Factor Hard Drive Blank Kit	666987-B21
	HP ML10v2 Drive Enablement Kit NOTE: Compatible with all chassis and supports NHP LFF Hard Disk. If ATX	812248-B21
	PSU is installed, system support up to 2x. If RPS is installed, system support up to 1x.	
	M.2 SSD	
	HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	777894-B21
	HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	788028-B21
IPE Networking	1 Gigabit Ethernet adapters	
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	10 Gigabit Ethernet adapters	
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP Ethernet 10Gb 2-port 557SFP+ Adapter	788995-B21
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 561T Adapter NOTE: Max=1 if selected with another x8 device.	716591-B21
HPE Power	HPE Entry-Level Power Supplies	
Supplies	HPE ML30 Gen9 350W E-star 1.0 FIO Power Supply Kit NOTE: Max=1	820303-B21
	NOTE: The HPE ML30 Gen9 350W E-star 1.0 FIO Power Supply Kit supports Bronze-level efficiency (no less than 82%) at all load	
	HPE ML30 Gen9 350W E-star 2.0 Power Supply Kit NOTE: Max=1	822384-B21
	NOTE: The HPE ML30 Gen9 350W E-star 2.0 Power Supply Kit supports Silver-level efficiency (no less than 85%) at all load	
	HPE 460W Common Slot Gold Hot Plug Power Supply Kit	503296-B21

	NOTE: Must select 4U RPS Enablement Kit. Max=2 Customer can select: 460W Hot Plug Power Supply x1 + 4U RPS Enablement Kit x1 460W Hot Plug Power Supply x2 + 4U RPS Enablement Kit x1	
	HPE ML30 Gen9 4U Redundant Power Supply Enablement Kit NOTE: Required for 460W Hot Plug Power Supply. Max=1	822607-B21
HPE Computation and Graphics Accelerators	HP NVIDIA Quadro K2200 Graphics Accelerator NOTE: An x16 device cannot be selected together with GPU.	JOG89A
HPE Cooling Options	HPE ML30 Gen9 Front PCI Redundant Fan Kit	820290-B21

HPE ProLiant ML30 Generation9 (Gen9)

Additional Options

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

HPE Insight	HPE Insight Control			
Software	HPE Insight Control including 1yr 24x7 TSU E-LTU	C6N28ABE		
	HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU	C6N27A		
	HPE Insight Management Media Kit	C6N31A		
	HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU	C6N36A		
	HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO E-LTU	C6N36ABE		
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple li activation key.			
	NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HPE Software Technical Support and Update Service.			
	NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can			
	be downloaded at: http://www.hp.com/go/insightupdates.			
	NOTE: For additional license options please see the HPE Insight Control QuickSpe	<u>CS</u> .		
Embedded	HPE iLO Advanced			
Management	HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE		
	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU	512485-B21		
	HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU	BD505A		
	HPE iLO Advanced including 3yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD506A		
	HPE iLO Advanced including 3yr 24x7 Tech Support and Updates Tracking LTU	BD507A		
	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE		
	HPE iLO Essentials			
	HPE iLO Essentials including 3yr 24x7 Tech Support and Updates 1-server LTU	BD774A		
	HPE iLO Essentials including 1yr 24x7 Tech Support and Updates 1-server LTU	BD775A		
	HPE iLO Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE		
	HPE iLO Essentials including 1yr 24x7 Technical Support and Updates E-LTU NOTE: For additional license kits, including electronic delivery options, please	E6U62ABE		
	see the <u>HPE Integrated Lights-Out (iLO) QuickSpecs</u> .			
	NOTE: For more information, visit: <u>http://www.hp.com/go/ilo</u> .			
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	SAS Controller			

QuickSpecs

Additional Options

HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller NOTE: Device Count - This controller can support up to 8 internal SAS/SATA devices Must select P440/P840 Cable Kit x1 Max=1 Must select Megacell battery x1 + battery holder kit x1 if no other P-series	820834-B21
controllers are selected. HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller NOTE: Device Count - This controller can support up to 8 internal SAS/SATA devices Must select P440/P840 Cable Kit x1 Must select Megacell battery x1 + battery holder kit x1 if no other P-series controllers are selected.	726821-B21
Max=1 HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller NOTE: Must select Megacell battery x1 + battery holder kit x1 if no other P- series controllers are selected. Max=1	726825-B21
HAX-1 HP ML110 Gen9 Mini SAS P440/P840 Cable Kit NOTE: 1pcs required per P440/4G or P440/2G controller.	789651-B21
SAS Controller Options HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers NOTE: Max=1.	727258-B21
Battery Holder HP ML150 Gen9 Smart Storage Battery Holder Kit NOTE: Max=1.	786710-B21
HPE Smart Host Bus Adapters HP H240 12Gb 2-ports Int Smart Host Bus Adapter NOTE: Device Count - This controller can support up to 8 internal SAS/SATA devices	726907-B21
1pc required per H240 controller for HPE 4LFF Mod-X 2pcs required per H240 controller for 8SFF Mod-X Max=1	
HP H241 12Gb 2-ports Ext Smart Host Bus Adapter NOTE: Max=1	726911-B21
HP ML110 Gen9 Mini SAS H240 Cable Kit NOTE: 1pc required per H240 controller for HPE 4LFF Mod-X. NOTE: 2pcs required per H240 controller for 8SFF Mod-X.	789648-B21

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

HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive

see: http://www.hp.com/go/tape. For hardware and software compatibility of HPE tape backup products see: http://www.hp.com/storage/SPOCK and http://www.hp.com/go/ebs.
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 External Tape Drive
BB874A
HPE StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive
EH964A
HPE StoreEver LTO-6 Ultrium 6650 SAS Internal Tape Drive

EH970A

Additional Options

	HPE StoreEver LTO-6 Ultrium 6250 Internal Tape Drive	EH969A
	HPE StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
	HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
	HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
	HPE StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
	HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2m	K2R09A
	Cable	KZRU7A
	HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 4m Cable	K2R10A
	HPE ML30 Gen9 Tape Drive Cable Kit	851615-B21
	NOTE: Required per RDX/LTO internal disk backup system if selected together with 350W ES1.0 or ES2.0 power supply.	
	NOTE: HPE ML30 Gen9 server requires HPE ML30 Gen9 Tape Drive Cable Kit (8 tape drive support.	51615-B21) for interna
	SAS Rack-Mount Tape Solutions	
	HPE StoreEver 1U SAS Rack Mount Kit	AE459B
	HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit	COL99A
	HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
	HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit	EJ014B
		EJU14D
	HPE MSL2024 Tape Library HPE StoreEver MSL2024 0-drive Tape Library	AK379A
		AKJ79A
	HPE MSL4048 Tape Library	
	HPE StoreEver MSL4048 0-drive Tape Library	AK381A
	HPE 1/8 G2 Tape Autoloader	
	HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
	HPE StoreEver MSL6480	
	HPE StoreEver MSL6480 Scalable Base Module	QU625A
	HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A
HPE Disk Backup	HPE RDX Removable Disk Backup System	
	HPE RDX1000 USB3.0 Internal Disk Backup System	B7B67A
	HPE RDX500 USB3.0 Internal Disk Backup System	B7B64A
	HPE RDX USB 3.0 Internal Docking Station	C8S06A
	HPE D3700 Enclosure	QW967A
	HPE D3600 Enclosure	QW968A
	HPE RDX 2TB USB3.0 Internal Disk Backup System	E7X52A
	NOTE: HPE ML30 Gen9 server requires HPE ML30 Gen9 Tape Drive Cable Kit (8	
	tape drive support.	
	HPE StoreOnce Backup systems	
	HPE StoreOnce 5100 48TB System	BB915A
	HP StoreOnce 4700 24TB Backup	BB879A
	HP StoreOnce 4500 24TB Backup	660/08
	HP StoreOnce 4500 24TB Backup HPE StoreOnce 3540 24TB System	BB878A BB914A
	HP StoreOnce 4500 24TB Backup HPE StoreOnce 3540 24TB System HPE StoreOnce 3520 12TB System	BB878A BB914A BB922A

HPE Disk Storage Disk Enclosures

Systems HP D6000 Dual I/O Module Disk Enclosure

QQ695A

HPE ProLiant ML30 Generation9 (Gen9)

Additional Options

	NOTE: See the URE D6000 Disk Enclosure OvickEncer for additional	
	NOTE: See the <u>HPE D6000 Disk Enclosure QuickSpecs</u> for additional information including configuration steps and additional options needed for a	
	complete solution.	
	HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W30A
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HPE D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A
	HPE D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	ΜΟΤ59Α
HPE Uninterrupti	ble HPE Tower UPS	
Power Systems	HPE T750 G4 UPS Models	
(UPS)	HP T750 G4 NA/JP Uninterruptible Power System	J2P85A
	HPE T1000 G4 UPS Models	
	HP T1000 G4 NA/JP Uninterruptible Power System	J2P86A
	HPE T1500 G4 UPS Models	
	HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A
	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS	<u>) web page</u>
HPE USB and SD		i) web pag <u>e</u>
	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS	•) web page 726116-B21
	NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS</u> HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS</u> HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21 700139-B21
Options	NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS</u> HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	726116-B21 700139-B21 737953-B21
Options HPE Support	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit	726116-B21 700139-B21 737953-B21
Options HPE Support	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit	726116-B21 700139-B21 737953-B21 741279-B21
Options HPE Support	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ5E
Options HPE Support	 NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service 	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ5E
Options HPE Support	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Drive Key Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service Foundation Care	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ5E U7WZ7E
Options HPE Support	 NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service HPE 3 year Foundation Care Next business day ML30 Gen9 Service 	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ5E U7WZ7E H1AS0E
Options HPE Support	 NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Drive Key Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service HPE 3 year Foundation Care Next business day ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service 	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ5E U7WZ7E H1AS0E H1AS1E
Options HPE Support	 NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service HPE 3 year Foundation Care Next business day ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 ML30 Gen9 Service	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ5E U7WZ7E H1AS0E H1AS1E H1AS6E
Options HPE Support	 NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service HPE 3 year Foundation Care Next business day ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR ML30 Gen9 Service	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ7E U7WZ7E H1AS0E H1AS1E H1AS6E H1AS7E
HPE USB and SD Options HPE Support Services	 NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service HPE 3 year Foundation Care Next business day ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ5E U7WZ7E H1AS0E H1AS1E H1AS1E H1AS7E H1AX4E
Options HPE Support	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service HPE 3 year Foundation Care Next business day ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR ML30 Gen9 Service	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ5E U7WZ7E H1AS0E H1AS1E H1AS6E H1AS7E H1AX4E
Options HPE Support	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML/DL Series 10 Service HPE Startup ML/DL Series 10 Service Foundation Care HPE 3 year Foundation Care Next business day ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 ML30 Gen9 Service HPE 3 year Foundation Care Next business day with DMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR ML30 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR ML30 Gen9 Service	726116-B21 700139-B21 737953-B21 741279-B21 U7WZ7E H1AS0E H1AS1E H1AS6E H1AS7E H1AX4E H1AX7E

Memory

NOTE: Memory configurations listed do not apply to "Factory Integrated Models".

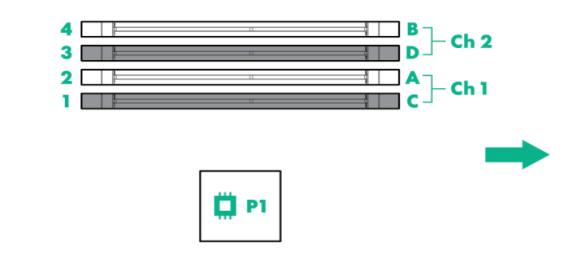
HPE Standard Memory

HPE Standard Memory is unique technology which is designed to work on 10/100 series Rack and Tower server. In Gen9 Server HPE Standard Memory has passed HPE's rigorous qualification and test processes. HPE Standard Memory is a certified HPE options and will provide a platform to allow future memory-related support enhancements through HPE Active Health System, System Insight Management and Insight Control management software.

DDR4 memory population guidelines

For detailed memory configuration rules and guidelines, please use the Online DDR4 Memory Configuration Tool: **http://www.hp.com/go/ddr4memory-configurator**.

Memory Population guidelines



General Memory Population Rules and Guidelines:

- . The HPE ProLiant ML30 Gen9 Server has four memory slots
- . There are two channels per server with two DIMM slots per channel
- . Memory channel 1 consists of the two (2) DIMMs that are closest to the processor
- . Memory channel 2 consists of the two (2) DIMMs that are furthest from the processor
- . Support for single/dual-rank 2133 MT/s ECC UDIMM (unbuffered DIMMS)
- . The server supports up to 64 GB (4 x 16-GB) for Unbuffered DIMMs
- . No support for LRDIMMs; RDIMMs; Non-ECC UDIMMs
- . Do not install DIMMs if the processor is not installed
- . Populate DIMMs from heaviest load (double-rank) to lightest load (single-rank)
- . Non-ECC DIMMs are not supported
- . Always use HPE qualified DIMMs

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E3-1200v5 Series Processor Family

Memory Bandwidth and Capacity						
[DIMM Type]		Unbuffered with ECC DIMMs (UDIMMs)				
HPE SKU P/N	805667-B21	819880-B21	805669-B21	805671-B21		
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank		
DIMM Capacity	4GB	8GB	8GB	16GB		

Memory

Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	
DIMM Native Speed (MT/s)	2133	2133	2133	2133	
SLOTS THAT CAN BE P	OPULATED				
4 slot servers	4	4	4	4	
MAXIMUM CAPACITY (GB)	1	1		
	16	32	32	64	
POPULATED DIMM SPE	ED (MT/s)				
1 DIMM Per Channel	2133	2133	2133	2133	
2 DIMM Per Channel	2133	2133	2133	2133	
3 DIMM Per Channel					

DIMM slot and

configuration diagram

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

Standard memory replaced with optional memory (1 CPU model)

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

• When two processors are installed, install DIMMs in sequential alphabetic order: CPU1-A, CPU2-A,CPU1-B,CPU2-B,CPU1-C, CP2-C

		CPU 1		CPU 2	
	Slot #	population order	Slot # populat	ion order	
Chnl 1	1	С	1		
	2	A	2		
			I		
		CPU 1		CPU 2	
	Slot #	CPU 1 population order	Slot #populat		
Chnl 2	Slot #		Slot #populat		

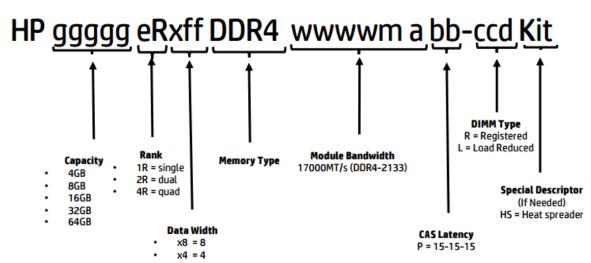
Memory Speed by	Processor Models	Supported Memory Speeds
	E3-1220v5, E3-1230v5, E3-1240Lv5, E3-1240v5, E3-1270v5, i3-6300, i3-6100, G4400, G4500	2133MT/s

Maximum Memory Capacity (Pre-	-	-	Optional Memory	Standard Memory Replaced with Optional Memory
configured Models)	E3-1240v5	8GB (1x8GB)	56GB (3x16GB, 1x8GB)	64GB(4x16GB)
	E3-1220v5	4GB (1x4GB)	52GB (3x16GB, 1x4GB)	64GB(4x16GB)

DDR4 memory options part number decoder

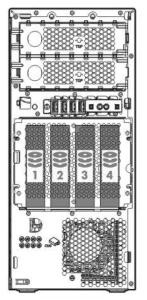
Memory

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

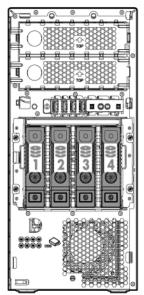


Storage

4-Bay LFF non-hot-plug drive model



4-bay LFF hot-plug drive model



8-bay SFF hot-plug drive model

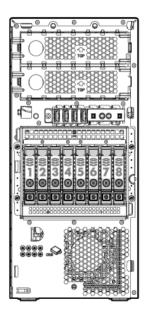
1-4

4 x LFF SATA/SSD Non-hot-plug Hard Drive Bays

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

1 x 8 8 x SFF SATA/SSD Hot Pluggable Hard Drive Bays

Storage



Maximum Storage Capacity

Total (4 LFF Drive)	32TB
Total (8 SFF Drive)	16TB

Technical Specifications

System Unit Tower Dimensions	14.50(H) x 6.89(W)) x 18.7(D) in (36.82 x 17.5 x 47.52 cm)
	Minimum:	27.1lb(13.56kg)
-	Maximum:	30.8lb(15.4kg)
Input Requirements	Range Line Voltage	100 to 120 VAC
	Rated Input Current	2.5 to 6 Amps
	Rated Input Frequency	47 to 63 Hz
	Rated Input Power	412W to 526W at 115 V AC input 412W to 523W at 230 V AC input
BTU Rating	Maximum	460W - 1773 BTU / hr (at 120 VAC), 1715 (at 240 VAC)
Power Supply Output	Rated Steady- State Power	350 W (at 115 VAC) 350 W (at 230 VAC)
	Maximum Peak Power	350 W (at 115 VAC) 350 W (at 230 VAC)
System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 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 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating	10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature.
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, noncondensing.
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
Acoustic Noise	average bystander product is operatin measured in accord with ISO 9296 (EC	ared A-Weighted sound power levels (LWAd) and declared position A-Weighted sound pressure levels (LpAm) when the g in a 23°C ambient environment. Noise emissions were dance with ISO 7779 (ECMA 74) and declared in accordance MA 109).
	Idle	
	L WAd	4.2 Bels (1P LFF Base) 3.7 Bels (1P LFF Performance)
	L pAm	27 dBA (1P LFF Base) 23 dBA (1P LFF Performance)
	Operating	
	L WAd	4.2 Bels (1P LFF Base) 3.8 Bels (1P LFF Performance)
	L pAm	27 dBA (1P LFF Base) 23 dBA (1P LFF Performance)

Technical Specifications

NOTE: Configurations tested for 1P LFF Base models include one (1) 1TE SATA Midline HDD and Windows 2012 Enterprise 64-bit. NOTE: Configurations tested for 1P LFF Performance models include one 1TB LFF SATA Midline HDD and Windows 2012 Enterprise 64-bit. NOTE: The Listed sound levels apply to standard shipping configurations Additional options may result in increased sound levels. NOTE: Levels presented do not account for non-Hewlett Packard Enterpri installed hardware.	e (1) 5.
Emissions FCC Rating Class B	
Classification Normative CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICE Standards CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 610 EN 60950-1; IEC 60950-1	
NOTE: Product conformance to cited product specifications is based on sa	ample
(type) testing, evaluation, or assessment. This product or family of produc	cts is
eligible to bear the appropriate compliance logos and statements.	
HPE Dynamic Number of PCI Four Smart Array B140i links	
ControllerPCI link rate4 Gb/s	
Storage protocol SATA support	
SAS/SATA peak 6 Gb/s data transfer	
rate	
Number of10 links	
SAS/SATA links	
SAS/SATA2x4 connectors; 2x1 connectorsconnectivity	
Expander No	
support	
support Drives supported Up to 10 Internal Drives	
support Drives supported Up to 10 Internal Drives (max)	
Drives supported Up to 10 Internal Drives	

HPE Ethernet 1Gb 2-port 332i	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

Server warranty

Not Supported

Supported

HPE SmartCache Not Supported

management

Warranty **HPE Secure**

Encryption license

License **HPE Smart**

Storage Administrator

Technical Specifications

Data Transfer Method		PCI Express, two lanes (x2)			
	Controller	BCM5720			
	Network	10Base-T (Half-			
	Transfer Rate	Duplex)	10 Mb/s per port, 40 Mb/s combined		
		10Base-T (Full-			
		Duplex)	20 Mb/s per port, 80 Mb/s combined		
		100Base-TX (Half			
		Duplex)	100 Mb/s per port, 400 Mb/s combined		
		100Base-TX (Full-			
		Duplex)	200 Mb/s per port, 800 Mb/s combined		
		1000Base-TX	1000Mh /s man mont / 000 Mh /s same bin ad		
		(Half-Duplex) 1000Base-TX	1000Mb/s per port, 4000 Mb/s combined		
		(Full-Duplex)	2000Mb/s per port, 8000 Mb/s combined		
	Connector	RJ-45			
	Cable Support	10 Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) e-TX Category 5 or higher UTP; up to 328 ft (100 m)		
Environment-	End-of-life	Hewlett-Packar	d offers end-of-life Hewlett Packard Enterprise product return,		
friendly Products	Management and	trade-in, and re	cycling programs in many geographic areas. For trade-in		
and Approach	Recycling		ase go to: http://www.hp.com/go/green. To recycle your product,		
			tp://www.hp.com/go/green or contact your nearest Hewlett		
			rise sales office. Products returned to Hewlett Packard Enterprise		
		will be recycled, recovered or disposed of in a responsible manner.			
		The EU WEEE	directive (2002/95/EC) requires manufacturers to provide		
			mation for each product type for use by treatment facilities. This		
		-	oduct disassembly instructions) is posted on the Hewlett Packard		
		Enterprise web site at: http://www.hp.com/go/green . These instructions may be			
			rs and other WEEE treatment facilities as well as HPE OEM		
		customers who	integrate and re-sell Hewlett Packard Enterprise equipment.		

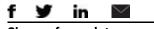
Summary of Changes

Date	Version History	Action	Description of Change
28-Oct-2016	From Version 8 to 9	Removed	Obsolete Hard Drives were removed from the QuickSpecs.
15-Aug-2016	From Version 7 to 8	Added	Added HPE ML30 Gen9 Tape Drive Cable Kit to the Unique Options section. Added T750, T1000, and T1500 G4 Tower UPS models.
		Changed	HPE Hard Drives section was revised.
8-Jul-2016	From Version 6 to 7	Changed	Smart Buy models section was revised for the NA version only.
6-Jun-2016	From Version 5 to 6	Added	Added new HDD offering to the HPE Drives section.
8-Apr-2016	From Version 4 to 5	Changed	HPE Processors section was revised.
31-Mar-2016	From Version 3 to 4	Added	Added new HPE TMP 2.0 module, and new RDX Disk Backup Systems.
		Changed	Embedded Management, Security, Service and Support, and Pre-configured Models sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 2 to 3	Added	New HDD offering was added to HPE Drives.
		Changed	HPE Unique Options and HPE Tape Backup were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Dec-2015	From Version 1 to 2	Added	Smart Buy models were added to the NA version.
		Changed	Chipset, Pre-Configure Models, HPE Drives, HPE Power Supplies, HPE Tape Backup, Maximum Storage Capacity, and Technical Specifications were revised.



QuickSpecs

Summary of Changes



Sign up for updates

© Copyright 2016 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Intel® and Xeon® are registered trademarks of Intel Corporation in the U.S. and other countries.

Microsoft®, Windows®, and Windows Server® are U.S. registered trademarks of the Microsoft group of companies.



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

c04834991 - 15475 - Worldwide - V9 - 28-October-2016