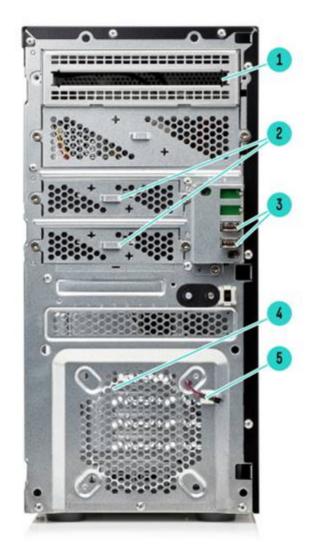
Overview

HPE ProLiant ML10 Generation9 (Gen9)

HPE ProLiant ML10 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.



Overview

Front View (details for 4LFF)

1. Media Bay

3. USB 2.0 connectors

5. Ambient temperature sensor

2. Hard drive bays

NOTE: To install HDD, must:

- a. Power down the server.
- b. Remove all power.
- c. Disconnect each power cord from the power source.
- d. Remove the access panel.
- e. Remove the tower bezel.
- f. Remove the EMI shield.

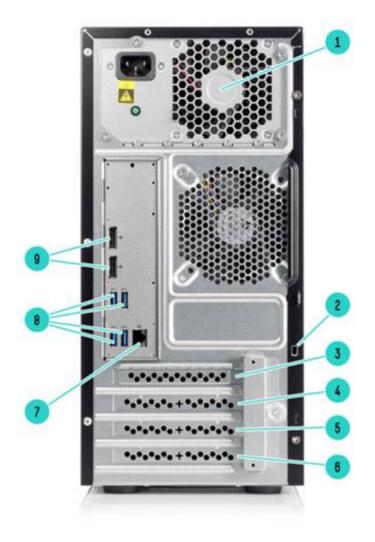
4. Drive cage

NOTE: To install HDD, must:

- a. Power down the server.
- b. Remove all power.
- c. Disconnect each power cord from the power source.
- d. Remove the access panel.
- e. Remove the tower bezel.

Remove the EMI shield.

Overview



Rear View

- 1. Power Supply
- 3. Slot 1, PCle3 x 8 (8,4,1)

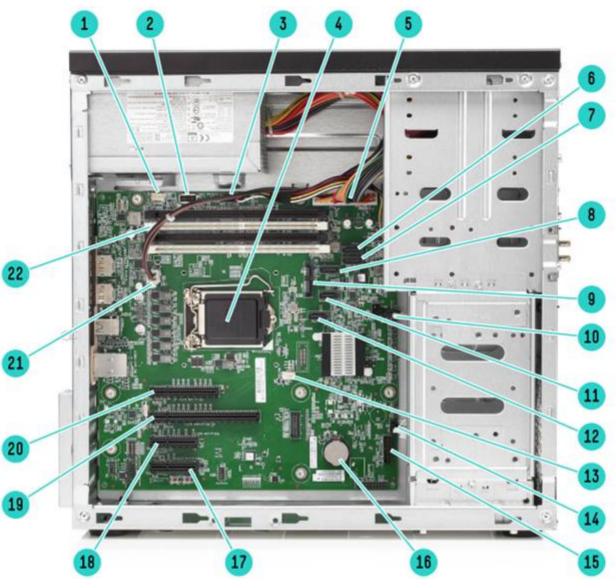
NOTE: For more information on the expansion slot specifications, see PCIe expansion slot definitions.

- Slot 3, PCle3 x 4 (4,1)
 NOTE: For more information on the expansion slot specifications, see PCle expansion slot definitions.
- 7. NIC connector
- 9. Display ports

NOTE: To connect to a VGA monitor, a DisplayPort to VGA Active Dongle is required. **NOTE:** Video output is design for DisplayPort 1.2.

- 2. Kensington security slot
- Slot 2, PCle3 x 16 (16, 8, 4, 1)
 NOTE: For more information on the expansion slot specifications, see PCle expansion slot definitions.
- Slot 4, PCle3 x 4 (1) NOTE: For more information on the expansion slot specifications, see PCle expansion slot definitions.
- 8. USB 3.0 connectors

Overview



Internal View

- 1. System fan connector
- 3. Front LEDs and power button module connector
- 5. 24-pin power supply connector
- 7. SATA connector 2
- 9. Optical drive connector
- 11. SATA connector 4
- 13. Heatsink fan connector
- 15. TPM connector
- 17. Slot 4, PCIe3 x 4 (1)

NOTE: For more information on the expansion slot specifications, see PCIe expansion slot definitions.

19. Slot 2, PCIe3 x 16 (16,8,4,1)

NOTE: For more information on the expansion slot specifications, see PCIe expansion slot definitions.

- 2. Internal USB 2.0 connector
- 4. Processor
- 6. SATA connector 1
- 8. SATA connector 3
- 10. Front USB connector
- 12. SATA connector 5
- 14. Ambient temperature sensor connector
- 16. System battery
- Slot 3, PCle3 x 4 (4,1)
 NOTE: For more information on the expansion slot specifications, see PCle expansion slot definitions.
- 20. Slot 1, PCle3 x 8 (8,4,1) **NOTE:** For more information on the expansion slot specifications, see PCle expansion slot definitions.

Overview

21. 4-pin power connector

22. DIMM slots

What's New

• ClearOS, an easy to use OS with an application marketplace, allows you to build a fully functional server that is just right for you at no upfront cost. To learn more on what you can do, please visit http://www.hpe.com/servers/clearos.

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:

Processor One of the	Model	CPU	Cores	L3 Cache	Power	DDR4 Hz		
following	G4400	frequency 3.3GHz	2	3MB	54W	2133	-	
depending on model	E3-1225v5	3.3GHz	4	8MB	80W	2133		
Cache Memory	8MB (1 x 8MB) L	evel 3 cache.						
One of the	NOTE: For Quad	NOTE: For Quad-core Intel Xeon® processors.						
following depending on	3MB (1 x 3MB) L	3MB (1 x 3MB) Level 3 cache						
model	NOTE: For Dual	-core Intel Pe	entium® a	and Core™ i	3 processo	rs.		
Chipset	Intel® C236 Chip	oset						
	NOTE: For more			· · ·		e see the follow	ving URL:	
	http://www.intel	l.com/produ	cts/serv	er/chipsets/				
On System	Intel® Active Mar	nagement Teo	chnology	(Intel® AMT	11.0)			
On Oystem	NOTE: The server supports the Intel Standard Manageability when the Intel Pen							
Management	NOTE: The serv				· ·			
Management	NOTE: The serv Core i3 processo	or is installed.	The serv		· ·			
Management	NOTE: The serv Core i3 processo processor is inst	or is installed. alled in the sy	The servystem.	ver supports	Intel AMT w	hen the Intel >	Keon	
Management	NOTE: The serv Core i3 processo	or is installed. alled in the system information,	The servystem.	ver supports	Intel AMT w	hen the Intel >	Keon	
Management Chipset	NOTE: The serv Core i3 processo processor is inst NOTE: For more	or is installed. alled in the system information,	The servystem.	ver supports	Intel AMT w	hen the Intel >	Keon	
Management Chipset Memory	NOTE: The serv Core i3 processo processor is inst NOTE: For more technology/inte	or is installed. alled in the sy e information, el-amt	The servystem.	ver supports	Intel AMT w	hen the Intel >	Keon	
Management Chipset	NOTE: The serv Core i3 processor processor is inst NOTE: For more technology/inte	or is installed. alled in the sy e information, el-amt d (UDIMM)	The servystem.	/er supports p://www.inte	Intel AMT w	hen the Intel >	Keon orm-	
Management Chipset	NOTE: The serv Core i3 processor processor is inst NOTE: For more technology/inte DDR4 Unbuffered DIMM Slots Avail Maximum Capac	d (UDIMM) able bity (UDIMM)	The serv ystem. visit: <u>htt</u> 4 64GB	/er supports p://www.inte 4 DIMMs (2 (4 x 16GB L	Intel AMT w el.com/tech Channels/ JDIMM @2'	/hen the Intel > nology/platfo 2 DIMMs per o	Keon orm-	
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Management Chipset	NOTE: The serv Core i3 processor processor is inst NOTE: For more technology/inte DDR4 Unbuffered DIMM Slots Avail Maximum Capac NOTE: For inform	d (UDIMM) able sity (UDIMM) mation regare	The serv ystem. visit: <u>htt</u> 4 64GB ding HPE	/er supports p://www.inte 4 DIMMs (2 (4 x 16GB L	Intel AMT w el.com/tech Channels/ JDIMM @2'	/hen the Intel > nology/platfo 2 DIMMs per o	Keon orm-	
Management Chipset Memory Memory	NOTE: The serv Core i3 processor processor is inst NOTE: For more technology/inte DDR4 Unbuffered DIMM Slots Avail Maximum Capac NOTE: For inform http://www.hp.c	d (UDIMM) able bity (UDIMM) able bity (UDIMM) able bity (UDIMM) able bity (UDIMM)	The serv ystem. visit: <u>htt</u> 64GB ding HPE <u>ory</u> .	/er supports p://www.inte 4 DIMMs (2 (4 x 16GB L	Intel AMT w el.com/tech Channels/ JDIMM @2'	/hen the Intel > nology/platfo 2 DIMMs per o	Keon orm-	
Management Chipset Memory Memory Protection Network	NOTE: The serv Core i3 processor processor is inst NOTE: For more technology/inte DDR4 Unbuffered DIMM Slots Avail Maximum Capac NOTE: For infor http://www.hp.c	d (UDIMM) able bity (UDIMM) able bity (UDIMM) able bity (UDIMM) able bity (UDIMM)	The serv ystem. visit: <u>htt</u> 64GB ding HPE <u>ory</u> .	/er supports p://www.inte 4 DIMMs (2 (4 x 16GB L	Intel AMT w el.com/tech Channels/ JDIMM @2'	/hen the Intel > nology/platfo 2 DIMMs per o	Keon orm-	

Standard Features	5				
	4	PCIe 3.0	x1	x4	Full height/half length
	3	PCIe 3.0	x4	x4	Full height/half length
	2	PCIe 3.0	x8	x16	Full height/half length
	1	PCIe 3.0	x8	x8	Full height/half length
	NOTE: Bus W connector.	idth indicates	the number	of physical e	lectrical lanes running to the
Storage Controller One of the	Entry Models	Intel F	RST SATA F	AID	
following depending on model	Performance N	Aodels Intel F	RST SATA F	RAID	
Internal Storage Devices One of the following depending on	Optical Drive	Optio NOTE NOTE	nal SATA 9 E: When ins E: To install	5mm DVD R tall ODD, HD	OM Optical Drive W Optical Drive D can support up to 5 drives. ourchase HPE ML10 Gen9 Slim 2-B21).
nodel	Hard Drives1 x1TB HPE LFF SATA HDD included in Performance ModeHard Drive Bays4 LFF Non-hot plug SATA 3.5" drives				
		Up to NOTE requir	6 LFF Non- E: HPE ML1 ed if install	hot plug SAT 0 Gen9 HDD he 5th drive.	
Maximum Internal Storage	Non Hot Plug L SATA	-		ONFIGURA T «4 TB	ΓΙΟΝ
Power Supply	300W Multi-Output Power Supply NOTE: HPE Entry-Level Power Supplies provide lower-cost options for customers tryin to balance their need for enterprise class efficiency and reliability while maintaining lowest possible hardware costs. All Entry-Level power supply options have been designed specifically for HPE ProLiant Gen9 Essential Series servers. 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 The ProLiant M cords:		rver is a tov	ver server tha	t ships standard with below power

Standard Features

Japan: JP CN: CN EMEA: EU/UK

If customers require additional local power cords, they can check the power cord matrix for the appropriatecountry specific SKU.

System Fans One of the		Non-redundant	Redundant
following depending on model	1P model	One (1) Non-redundant system fan	
Interfaces	Display Port	2 (rear)	
		t to a VGA monitor, a DisplayPort to VGA ut is design for DisplayPort 1.2.	A Active Dongle is required.
	Network RJ-45 (Ethernet)	1 (rear)	
	USB 3.0	4 (4 rear)	
	USB 2.0	3 (2 front, 1 internal)	
Operating	Microsoft Window	ws Server	
Systems and	Red Hat Enterpris	se Linux (RHEL <u>)</u>	
Virtualization	SUSE Linux Ente	erprise Server (SLES)	
Software Support for	ClearOS		
	NOTE: ClearOS al	llows you to build a fully functional serve	r that is just right for you at no
	upfront cost. It is a	vailable via CTO preload, Intelligent Prov	visioning or via download
	· · · ·	on on ClearOS, please visit <u>http://www.</u>	U
	For more informati NOTE: For more in and Virtualization S	on on ClearOS, please visit <u>http://www.</u> nformation on HPE's Certified and Supp Software and latest listing of software driv	.hpe.com/servers/clearos. orted ProLiant Servers for OS vers available for your server,
	For more informati NOTE: For more in and Virtualization S	on on ClearOS, please visit <u>http://www.</u> nformation on HPE's Certified and Supp	.hpe.com/servers/clearos. orted ProLiant Servers for OS vers available for your server,
Upgradeability	For more informati NOTE: For more in and Virtualization S please visit our Sup download page.	on on ClearOS, please visit <u>http://www.</u> nformation on HPE's Certified and Supp Software and latest listing of software driv pport Matrix at: <u>http://www.hpe.com/inf</u>	.hpe.com/servers/clearos. orted ProLiant Servers for OS vers available for your server,
Upgradeability	For more informati NOTE: For more in and Virtualization S please visit our Sup <u>download page</u> . Up to 6LFF Non-ho	on on ClearOS, please visit <u>http://www.</u> nformation on HPE's Certified and Suppo Software and latest listing of software driv pport Matrix at: <u>http://www.hpe.com/inf</u> ot plug SATA 3.5" drives	hpe.com/servers/clearos. orted ProLiant Servers for OS vers available for your server, o/ossupport and our driver
Upgradeability	For more informati NOTE: For more in and Virtualization S please visit our Sup <u>download page</u> . Up to 6LFF Non-ho NOTE: HPE ML10	on on ClearOS, please visit <u>http://www.</u> nformation on HPE's Certified and Supp Software and latest listing of software driv pport Matrix at: <u>http://www.hpe.com/inf</u>	hpe.com/servers/clearos. orted ProLiant Servers for OS vers available for your server, o/ossupport and our driver
Upgradeability	For more informati NOTE: For more in and Virtualization S please visit our Sup download page. Up to 6LFF Non-ho NOTE: HPE ML10 5th drive. If the 6th	on on ClearOS, please visit <u>http://www.</u> nformation on HPE's Certified and Suppo Software and latest listing of software driv pport Matrix at: <u>http://www.hpe.com/inf</u> ot plug SATA 3.5" drives	hpe.com/servers/clearos. orted ProLiant Servers for OS vers available for your server, o/ossupport and our driver
Upgradeability	For more informati NOTE: For more in and Virtualization S please visit our Sup download page. Up to 6LFF Non-ho NOTE: HPE ML10 5th drive. If the 6th (#836739-B21). Optical Drive Bay NOTE: When insta	on on ClearOS, please visit <u>http://www.</u> nformation on HPE's Certified and Suppo Software and latest listing of software driv pport Matrix at: <u>http://www.hpe.com/inf</u> ot plug SATA 3.5" drives of Gen9 HDD Cable Screw Kit (#841425-E drive is required, must purchase HPE M	hpe.com/servers/clearos. orted ProLiant Servers for OS vers available for your server, o/ossupport and our driver 321) is required if install the IL10 Drive Enablement Kit
Upgradeability	For more informati NOTE: For more in and Virtualization S please visit our Sup download page. Up to 6LFF Non-ho NOTE: HPE ML10 5th drive. If the 6th (#836739-B21). Optical Drive Bay NOTE: When insta	on on ClearOS, please visit <u>http://www.</u> nformation on HPE's Certified and Suppo Software and latest listing of software driv pport Matrix at: <u>http://www.hpe.com/inf</u> ot plug SATA 3.5" drives Gen9 HDD Cable Screw Kit (#841425-E drive is required, must purchase HPE M	hpe.com/servers/clearos. orted ProLiant Servers for OS vers available for your server, o/ossupport and our driver 321) is required if install the IL10 Drive Enablement Kit
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Standard Features

Graphics	GPU Support (Xeon Only) NOTE: Embedded GPU support for Xeon processor only.
Form Factor	Up to 6LFF Drive
Security	Power-on password Setup password Power switch security Administrator's password TPM 1.2 TPM 2.0 NOTE: HPE Trusted Platform Module 2.0 Option (745823-B21) works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants. HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option. The earlier HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version, which is also available however TPM 2.0 has newer technology standards incorporated. The TPM 1.2 compatible server platforms include Gen8 and Gen9 servers. HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.
Warranty	NOTE: Server Warranty includes 1-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: <u>http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/</u> .

Optional Features

HPC Interconnects	NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HPE Cluster Platform product portfolio. These high-speed interconnects are fully supported by Hewlett Packard Enterprise when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPEC Clusters with InfiniBand Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html.
ClearOS	HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive web based graphical user interface that provides a cloud-like experience on- premise, and an Application Marketplace with over 100 apps and growing. Whether you're starting out or scaling, you decide what applications you need and pay as you grow. NOTE: For more information on ClearOS, please visit http://www.hpe.com/servers/clearos .
One Config Simple (SCE)	SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized

Partner for assistance. http://ocs.ext.hpe.com/.

Service and Support

Support

HPE Support Services	HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full
	entitlement to the support for need for your IT and business.

Connect your devices Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support. **1- IDC 2 - HPE 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 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 Foundation Care CTR, three-year Support Service

HPE Foundation Care Call-To-Repair Service connects you to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues -this includes our highest level commitment to repair hardware within six hours after opening your case and respond to software questions within two hours. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. In addition, Collaborative software support is included and provides troubleshooting assistance on industry leading software running on your server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems. <u>https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-</u> 8876ENW&cc=us&Ic=en

Service and Support

Parts and
MaterialsHewlett Packard Enterprise will provide Hewlett Packard Enterprise-supported
replacement parts and materials necessary to maintain the covered hardware product in
operating condition, including parts and materials for available and recommended
engineering improvements.

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

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

Related Services HPE Server Hardware Installation

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

HPE Installation and Startup Service

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

HPE Technology Services Support Credits

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

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

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.

	Entry Models	Performance Models		
[SKU Number]	837826-xx1	837829-xx1		
Model Name	HPE ProLiant ML10 Gen9 G4400 4GB- R Non-hot Plug 4LFF SATA 300W Entry Svr	HPE ProLiant ML10 Gen9 E3-1225 v5 8GB- R 1TB Non-hot Plug 4LFF SATA 300W Perf Svr		
Processor	Intel® Pentium® G4400	Intel® Xeon® E3-1225v5		
Number of Processors		One		
Memory	4GB (1x4GB UDIMMs, 2133 MHz)	8GB (1x8GB UDIMMs, 2133 MHz)		
Network Controller	Intel® Ethernet Connection I219-LM			
Storage Controller	Intel RS	ST SATA RAID		
Hard Drive	None ship standard	1 x 1TB		
Internal Storage	4 LFF HDD Bays (Non Hot Plug)			
Optical Drive Bay	Optional Slim Optical Bay (S/	SATA DVD-RW/ROM Optical Drive)		
Optical Drive	HPE Half-Height SATA DVD-RW/ROM Optical Drive	Optional Slim Optical Bay (SATA DVD- RW/ROM Optical Drive)		
PCI-Express Slots	4 PCIe 3.0 slots			
Power Supply	300W Multi-Output Power Supply			
Fans	1 non hot plug, non-redundant			
Management	Intel Standard Management	Intel® Active Management Technology (Intel AMT 11.0)		
Form Factor	То	wer (4U)		
Warranty		-Year Labor, 1-Year Onsite support with next s day response		

Country	xx1 = B21	Worldwide
Code	xx1 = 001	US
Кеу	xx1 = 421	EU
	xx1 = 371	AP
	xx1 = 291	Japan
	xx1 = AA1	PRC

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

Core Options

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

HPE Unique Options	HPE ML10 Gen9 Drive Enablement Kit NOTE: HPE ML10 Gen9 Drive Enablement Kit is required if install 6th HDD.	836739-B21
	HPE ML10 Gen9 Slim ODD Enablement Kit	836742-B21
	NOTE: HPE ML10 Gen9 Slim ODD Enablement Kit is required if install ODD.	
	HPE ML10 Gen9 HDD Cable Screw Kit	841425-B21
	NOTE: HPE ML10 Gen9 HDD Cable Screw Kit (#841425-B21) is required if install the 5th drive. If the 6th drive is required, must purchase HPE ML10 Drive Enablement Kit (#836739-B21).	

HPE Memory	NOTE: For information regarding HPE Server Memory visit: http://www.hp.com/products/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	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive HPE ML10 Gen9 Slim ODD Enablement Kit	726536-B21 726537-B21 836742-B21

firmware, and the serve system bandwidth will NOTE: Hard drives have hard drive QuickSpect NOTE: HPE ML10 Get 5th drive. NOTE: HPE ML10 Get 6th drive. GG SATA Non-hot PI HPE 500GB SATA 6G M HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 3TB SATA 6G M HPE 2TB SATA 6G M HPE 2TB SATA 6G M HPE 2TB SATA 6G M HPE 4TB SATA 6G M	n9 HDD Cable Screw Kit (#841425-B21) i n9 Drive Enablement Kit (#836739-B21) is ug LFF 7.2K (3.5-inch) Entry Drives	e data transfer rate or the el for all components. ty; refer to the specific is required if install the
HPE 500GB SATA 6G HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 3TB SATA 6G M 6G SATA Non-hot PI HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 4TB SATA 6G M		
HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 3TB SATA 6G M 6G SATA Non-hot PI HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 4TB SATA 6G M 6G SATA Non-hot PI		
HPE 2TB SATA 6G M HPE 3TB SATA 6G M 6G SATA Non-hot PI HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 4TB SATA 6G M 6G SATA Non-hot PI	Midline 7.2K LFF (3.5in) RW 1yr Wty HD	D 843264-B21
HPE 3TB SATA 6G M 6G SATA Non-hot PI HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 4TB SATA 6G M 6G SATA Non-hot PI	dline 7.2K LFF (3.5in) RW 1yr Wty HDD	843266-B21
6G SATA Non-hot PI HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 4TB SATA 6G M 6G SATA Non-hot PI	dline 7.2K LFF (3.5in) RW 1yr Wty HDD	843268-B21
HPE 1TB SATA 6G M HPE 2TB SATA 6G M HPE 4TB SATA 6G M 6G SATA Non-hot PI	dline 7.2K LFF (3.5in) RW 1yr Wty HDD	843270-B21
HPE 2TB SATA 6G M HPE 4TB SATA 6G M 6G SATA Non-hot PI	ug LFF 7.2K (3.5-inch) Standard Drives	6
HPE 4TB SATA 6G M 6G SATA Non-hot PI	dline 7.2K LFF (3.5in) RW 1yr Wty HDD	801882-B21
6G SATA Non-hot Pl	dline 7.2K LFF (3.5in) RW 1yr Wty HDD	801884-B21
	dline 7.2K LFF (3.5in) RW 1yr Wty HDD	801888-B21
	ug LFF 5.9K (3.5-inch) Entry Drives	
HPE 41B SATA 6G E	ntry 5.9K LFF (3.5in) RW 1yr Wty HDD	815635-B21
Hard Drive Kits		
HPE ML10 Gen9 Drive		836739-B21
HPE ML10 Gen9 HDD	Enablement Kit	841425-B21

HPE Networking 1 Gigabit Ethernet adapters

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

Additional Options

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

HPE Security	HPE Trusted Platform Module 2.0 Kit	745823-B21	
	HPE Trusted Platform Module Option NOTE: HPE Trusted Platform Module 2.0 Option (745823-B21) works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants. HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option. The earlier HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version, which is also available however TPM 2.0 has newer technology standards incorporated. The TPM 1.2 compatible server platforms include Gen8 and Gen9 servers. HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.	488069-B21	
HPE Storage	HPE Host Bus Adapters		
Controllers	HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21	
	NOTE: Only require when install External Tape Drive.		
HPE Tape Backup	NOTE: For the complete range of tape drives, autoloaders, libraries and me http://www.hp.com/go/tape. For hardware and software compatibility of Hi backup products see: <u>http://www.hp.com/storage/SPOCK</u> and <u>http://www.hp.com/go/ebs</u> . NOTE: Limited to H241 when select Tape Drive. Tape Drives		
	HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A	
	HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B	
HPE Uninterrup Power Systems	tible HPE Tower UPS HPE T750 G4 UPS Models		
(UPS)	HPE T750 G4 NA/JP Uninterruptible Power System	J2P85A	
	HPE T1000 G4 UPS Models		
	HPE T1000 G4 NA/JP Uninterruptible Power System	J2P86A	
	HPE T1500 G4 UPS Models		
	HPE T1500 G4 NA/JP Uninterruptible Power System	J2P87A	
	NOTE: To learn more, please visit the HPE Uninterruptible Power		
	Systems (UPS) web page.		

Additional Options

HPE Support

Foundation Care

HPE Rack Mount	HPE USB Keyboard and Mouse	
Consoles, KVM Switches, and	HPE USB US Keyboard/Mouse Kit	631341-B21
	HPE USB UK Keyboard/Mouse Kit	631344-B21
Keyboards	HPE USB FR Keyboard/Mouse Kit	631346-B21
	HPE USB ES Keyboard/Mouse Kit	631348-B21
	HPE USB DE Keyboard/Mouse Kit	631358-B21
	HPE USB JP Keyboard/Mouse Kit	631360-B21
	HPE USB IT Keyboard/Mouse Kit	631362-B21
	HPE USB CN Keyboard/Mouse Kit	631364-B21
	HPE USB AE Keyboard/Mouse Kit	638212-B21
	HPE USB RU Keyboard/Mouse Kit	638214-B21
	HPE USB IN Keyboard/Mouse Kit	672097-D63
	HPE USB AP/INTL Keyboard/Mouse Kit	672097-373
	HPE USB INTL Keyboard/Mouse Kit	672097-B33
	HPE USB PT Keyboard/Mouse Kit	672097-133
	HPE USB TR Keyboard/Mouse Kit	672097-143
	HPE USB CZ Keyboard/Mouse Kit	672097-223
	HPE USB FI Keyboard/Mouse Kit	672097-353
	HPE USB SE Keyboard/Mouse Kit	672097-103
	HPE USB CH Keyboard/Mouse Kit	672097-113
	HPE USB KR Keyboard/Mouse Kit	672097-KD3

Services HPE 3 year Foundation Care Next business day ML10 Gen9 Service H1RN5E HPE 3 year Foundation Care Next business day with DMR ML10 Gen9 H1RN6E Service HPE 3 year Foundation Care 24x7 ML10 Gen9 Service H1RN7E HPE 3 year Foundation Care 24x7 with DMR ML10 Gen9 Service H1RN8E HPE 3 year Foundation Care Call to Repair ML10 Gen9 Service H1RN9E HPE 3 year Foundation Care Call to Repair with DMR ML10 Gen9 H1RP0E Service HPE 3 year Foundation Care Next business day with CDMR ML10 Gen9 H1RQ3E Service HPE 3 year Foundation Care 24x7 with CDMR ML10 Gen9 Service H1RQ4E HPE 3 year Foundation Care Call to Repair with CDMR ML10 Gen9 H1RQ5E Service HPE 3 year Foundation Care Next business day ML10v2 Service U2GU0E HPE 3 year Foundation Care Next business day with DMR ML10v2 U2GU1E Service HPE 3 year Foundation Care Next business day with CDMR ML10v2 U2GU2E Service

HPE 3 year Foundation Care 24x7 ML10v2 Service	U2GU3E
HPE 3 year Foundation Care 24x7 wDMR ML10v2 Service	U2GU4E
HPE 3 year Foundation Care 24x7 wCDMR ML10v2 Service	U2GU5E

Additional Options

Proactive Care	
HPE 3 year Proactive Care 24x7 ML10v2 Service	U0SC5E
Installation Services	
HPE Install ProLiant ML110 Service	U4444E

Memory

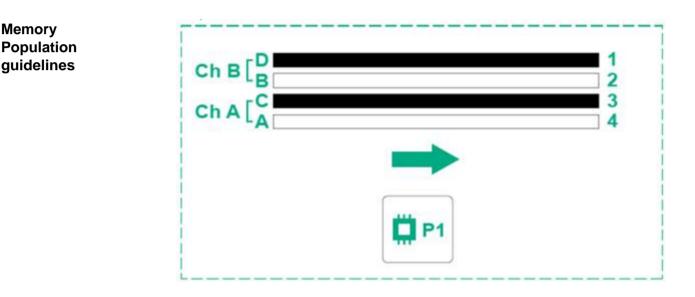
NOTE: Memory configurations listed do not apply to "Factory Integrated Models".

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://h22195.www2.hp.com/MemoryTool/Home/SelectServer.



General Memory Population Rules and Guidelines:

- . The HPE ProLiant ML10 Gen9 Server has four memory slots
- . There are two channels per server with two DIMM slots per channel
- . Memory channel consists of the two (2) DIMMs that are closest to the processor
- . Memory channel 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
- . When only one processor is installed, install DIMMs in sequential alphabetic order: 3C, 1D, 4A, 2B
- . 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)
- . DIMMs should be populated starting farthest from the processor on each channel
- . Non-ECC DIMMs are not supported
- . Always use HPE qualified DIMMs

Memory

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

Memory Bandwid	dth 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
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 CA	N BE POPULATED			
4 slot servers	4	4	4	4
	CITY (GB)			
	16	32	32	64
POPULATED DI	MM SPEED (MT/s)	1		1
1 DIMM Per Channel	2133	2133	2133	2133
2 DIMM Per Channel	2133	2133	2133	2133
3 DIMM Per Channel				

DIMM slot and Standard memory replaced with optional memory (1 CPU model)

configuration diagram

• When one processor is installed, install DIMMs in sequential alphabetic order: 3C, 1D, 4A, 2B

CPU 1			CPU 2		
	Slot #	Population order	Slot #	Population order	
Chnl B	1	D	1	D	
2		В	2	В	
CPU 1			CPU 2		
	Slot #	Population order	Slot #	Population order	
Chnl 2	3	С	3	С	
	4	A	4	A	

Memory

Memory	Processor Models	Supported Memory Speeds
Speed by	G4400, E3-1225v5	2133MT/s
Processor	· · · · ·	

Model

Standard and Maximum Memory	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
Capacity (Pre- configured	G4400	4GB (1x4GB)	52GB (3x16GB, 1x4GB)	64GB (4x16GB)
Models)	E3-1225v5	8GB (1x8GB)	56GB (3x16GB, 1x8GB)	64GB (4x16GB)

DDR4 memory options part number decoder

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

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

• 64GB

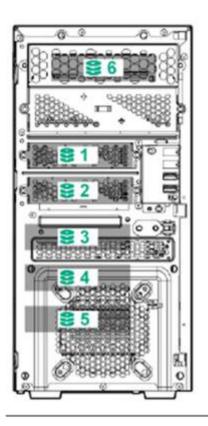
•x8 = 8 •x4 = 4

HP ggggg eRxff DDR4 wwwwm a bb-ccd Kit DIMM Type R = Registered Module Bandwidth Capacity Rank Memory Type = Load Reduced 17000MT/s (DDR4-2133) 4GB IR = single • 8GB • 2R = dual Special Descriptor • 16GB • 4R = quad (If Needed) • 32GB CASLatency Data Width HS = Heat spreader

•P = 15-15-15

Storage

Max 6 LFF non-hot-plug drive model



Maximum Storage Capacity

Total (4 LFF Drive)	16 TB
Max (6 LFF Drive)	24 TB

- 1-5 5 x LFF SATA Non-hot-plug Hard Drive Bays NOTE: HPE ML10 Gen9 HDD Cable Screw Kit (#841425-B21) is required if install the 5th drive.
- 6 6 LFF SATA Non-hot plug Hard Drive Bay

NOTE: If requires the 6th drive, must purchase HPE ML10 Drive Enablement Kit (#836739-B21). NOTE: When install ODD, HDD can support up to 5 drives. NOTE: To install ODD, must purchase HPE ML10 Gen9 Slim ODD Enablement Kit (#836742-B21).

Technical Specifications

System Unit	Tower Dimensions	14.47(H) x 6.89(W) >	x 15.79(D) in (36.76 x 17.5 x 40.13 cm)
	Tower Weight	Minimum:	14.7lb(6.68kg)
		Maximum:	24.29lb(11.04kg)
	Input Requirements	Rated Line Voltage	100-120 VAC/200-240 VAC
		Rated Input Current	6 A/ 4 A
		Rated Input Frequency	50/60 Hz
		Rated Input Power	333W at 115 V AC input
			333W at 230 V AC input
	BTU Rating	Maximum	1133.33 at 115 VAC /1133.33 at 230 VAC
	Power Supply Output	Rated Steady-State Power	300 W (at 115 VAC) 300 W (at 230 VAC)
		Maximum Peak	300 W (at 115 VAC)
		Power	300 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°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).
		Non-operating	-30C to 60C (-22F to 140F)
	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 24°C (75.2°F) dew point or 90% relative humidity.
		Non-operating	5% to 95% 38.7C (101.7F), maximum wet bulb temperature.
	Altitude	Operating	An altitude derating of 1.0°C per 304.8 m (1.8°F per 1000 ft) to3048 m (10,000 ft) is applicable. No direct sunlight allowed. Maximum rate of change is 20°C per hour (36°F per hour). The upper limit and rate of change might be limited by the type and number of options installed.
		Non-operating	
	Acoustic Noise	(LWAd) and declared sound pressure leve in a 23°C ambient er measured in accorda	red A-Weighted sound power levels d average bystander position A-Weighted Is (LpAm) when the product is operating nvironment. Noise emissions were ance with ISO 7779 (ECMA 74) and nce with ISO 9296 (ECMA 109).

Technical Specifications

	Idle	
	LWAd	3.8 Bels
	LpAm	22 dBA
	Operating	
	LWAd	3.8 Bels
	LpAm	22 dBA
	1TB LFF SATA Mid NOTE: The Listed s	ons tested for LFF Pmodels include one (1) line HDD and Windows 2012 R2 64-bit. sound levels apply to standard shipping itional options may result in increased
Emissions	FCC Rating	Class B
Classification (EMC)	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
	based on sample (t This product or fam	nformance to cited product specifications is ype) testing, evaluation, or assessment. ily of products is eligible to bear the ance logos and statements.

Intel RSTe SATA RAID	Storage protocol support	SATA
	SAS/SATA peak data transfer rate	6Gb/s
	Number of SAS/SATA links	6 links
	SAS/SATA connectivity	6 connectors
	Expander support	No
	Drives supported (max)	Up to 6 Internal Drives
	RAID support	0, 1, 10, 5 SATA
	Software management	Intel RST utility
	Warranty	Server warranty
	HPE Secure Encryption license	Not Supported
	HPE SmartCache License	Not Supported

Technical Specifications

Intel® Ethernet	Network Interface	10Base-T/100Base-TX/1000Base-TX		
Connection I219-	Compatibility	IEEE 802.3 10Base-T		
LM		IEEE 802.3ab 1000Base-T		
		IEEE 802.3u 100Base-TX		
	Data Transfer Method	PCI Express, two lane	es (x2)	
	Controller	Intel Ethernet Connect	Ethernet Connection I219-LM	
	Network Transfer Rate	10Base-T (Half-		
		Duplex)	10 Mb/s per port, 40 Mb/s combined	
		10Base-T (Full-		
		Duplex)	20 Mb/s per port, 80 Mb/s combined	
		100Base-TX (Half- Duplex)	100 Mb/s per port, 400 Mb/s combined	
		100Base-TX (Full-	Too Mb/s per port, 400 Mb/s combined	
		Duplex)	200 Mb/s per port, 800 Mb/s combined	
		1000Base-TX (Half and Full-Duplex)	1000 Mb/s per port, 4000 Mb/s combined	
		1000Base-TX (Full- Duplex)	2000 Mb/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)	
		10/100/1000 Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)	

friendlyManagement andtracProducts andRecyclingforApproachEnt	vlett Packard Enterprise offers end-of-life product return, e-in, and recycling programs, in many geographic areas, our products. Products returned to Hewlett Packard erprise will be recycled, recovered or disposed of in a bonsible manner.
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http://www.hpe.com/recycle

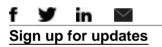
The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other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

http://www.hpe.com/recycle

Summary of Changes

Date	Version History	Action	Description of Change
11-Jul-2017	From Version 6 to 7	Changed	Operating Systems and Virtualization Software Support for ProLiant Servers section was revised.
8-May-2017	From Version 5 to 6	Added	Added ClearOS support.
28-Nov-2016	From Version 4 to 5	Changed	Maximum Storage Capacity and Internal Storage Devices were revised.
15-Aug-2016	From Version 3 to 4	Added	Added T750, T1000, T1500 G4 Tower UPS models.
		Changed	Interfaces section was revised.
6-Jun-2016	From Version 2 to 3	Changed	Memory, Upgradeability, and Storage were revised.
31-Mar-2016	From Version 1 to 2	Added	Added new Security TMP option.
		Changed	Security, Service and Support, and Pre- configured Models sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.





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Hewlett Packard Enterprise

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

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