QuickSpecs

HPE ProLiant DL360 Gen9 Server

Overview

The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information

HPE ProLiant DL360 Gen9 Server

The Hewlett Packard Enterprise leading server for dense general-purpose computing, the HPE ProLiant DL360 Gen9 Server delivers increased performance with the best memory and I/O expandability packed in a 1U dense rack design. Reliability, serviceability and always on availability, backed by a comprehensive warranty, make it ideal for the most space constrained server workloads.





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Overview



Rear View

1. PCle 3.0 Slots 1-3¹

- 2. HPE Flexible Slot Power Supply Bay 2
- 3. Power Supply 2 Status LED
- 4. Power Supply 2 C13 Connection
- 5. HPE Flexible Slot Power Supply Bay 1
- 6. Power Supply 1 Status LED
- 7. Power Supply 1 C13 Connection

- 8. Video Connector
- 9. Embedded 4x1GbE Network Adapter
- 10. Dedicated iLO 4 connector
- 11. Serial Port Connector (Optional)
- 12. USB 3.0 Connectors (2)
- 13. Unit Identification LED
- 14. FlexibleLOM bay (Optional)

¹ **NOTE:** Slot 1 and 2 Riser Ships Standard, Slot 3 Optional one FH/ ½ length and two Low Profile slots available (shown) or two FH/ ½ length slots.

¹⁴ **NOTE:** Shown: 4x1Gbe.

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Overview



Internal View

- 1. 5 Standard Fans Ship for 1P and 7 Standard Fans Ship for 2P¹
- 2. HPE Smart Storage Battery (Optional)
- 3. 2 Processors with HPE Smart Socket Guide
- 4. MicroSD card slot⁴
- 5. Dual Internal USB 3.0 connector
- 6. HPE Flexible Smart Array or Smart HBA (Optional)⁶
- 7. 2 HPE Flexible Slot Power supplies⁷
- ¹ **NOTE:** High Performance Fans also available as an option
- ⁴ **NOTE:** Optional Dual Micro-SD option.
- ⁶ **NOTE:** H240ar shown and P440ar available.
- ⁷ **NOTE:** Optional Micro UPS option

What's New:

- NVMe 1.6TB to 6.4TB MU & 1.92TB to 7.68TB RI SFF SCN DS SSDs
- SAS 12G 400GB to 6.4TB MU, 960GB to 7.68TB RI & 400GB to 3.2TB WI SFF SC DS SSDs
- SATA 6G 480GB to 1.92TB MU SFF SC DS SSDs

- Secondary PCIe 3.0 riser for PCIe slot 3 (requires CPU 2)
- 9. Embedded 4x1Gbe NIC
- 10. Primary PCle 3.0 riser for PCle slots 1 & 2
- 11. FlexibleLOM Bay (Optional)
- 12. Embedded SATA Controller ports
- 13. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)

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Standard Features

Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
E5-2699v3	2.3GHz	18	45MB	145W	9.6GT/s	2133
E5-2698v3	2.3GHz	16	40MB	135W	9.6GT/s	2133
E5-2697v3	2.6GHz	14	35MB	145W	9.6GT/s	2133
E5-2695v3	2.3GHz	14	35MB	120W	9.6GT/s	2133
E5-2690v3	2.6GHz	12	30MB	135W	9.6GT/s	2133
E5-2687Wv3	3.1GHz	10	25MB	160W	9.6GT/s	2133
E5-2683v3	2.0GHz	14	35MB	120W	9.6GT/s	2133
E5-2680v3	2.5GHz	12	30MB	120W	9.6GT/s	2133
E5-2670v3	2.3GHz	12	30MB	120W	9.6GT/s	2133
E5-2667v3	3.2GHz	8	20MB	135W	9.6GT/s	2133
E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
E5-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
E5-2643v3	3.4GHz	6	20MB	135W	9.6GT/s	2133
E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
E5-2637v3	3.5GHz	4	15MB	135W	9.6GT/s	2133
E5-2630v3	2.4GHz	8	20MB	85W	8.0GT/s	1866
E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
E5-2699v4	2.2GHz	22	55MB	145W	9.6GT/s	2400
E5-2698v4	2.2GHz	20	50MB	135W	9.6GT/s	2400
E5-2697v4	2.3GHz	18	45MB	145W	9.6GT/s	2400
E5-2697Av4	2.6GHz	16	40MB	145W	9.6GT/s	2400
E5-2695v4	2.1GHz	18	45MB	120W	9.6GT/s	2400
E5-2690v4	2.6GHz	14	35MB	135W	9.6GT/s	2400
E5-2687Wv4	3.0GHz	12	30MB	160W	9.6GT/s	2400
E5-2683v4	2.1GHz	16	40MB	120W	9.6GT/s	2400
E5-2680v4	2.4GHz	14	35MB	120W	9.6GT/s	2400
E5-2667v4	3.2GHz	8	25MB	135W	9.6GT/s	2400
E5-2660v4	2.0GHz	14	35MB	105W	9.6GT/s	2400
E5-2650v4	2.2GHz	12	30MB	105W	9.6GT/s	2400
E5-2650Lv4	1.7GHz	14	35MB	65W	9.6GT/s	2400
E5-2643v4	3.4GHz	6	20MB	135W	9.6GT/s	2400
E5-2640v4	2.4GHz	10	25MB	90W	8.0GT/s	2133
E5-2637v4	3.5GHz	4	15MB	135W	9.6GT/s	2400

NOTE: For more information regarding Intel Xeon processors, please see the following <u>http://www.intel.com/xeon</u>. **Processor** Up to two of the following depending on model

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E5-2630v4	2.2GHz	10	25MB	85W	8.0GT/s	2133
E5-2630Lv4	1.8GHz	10	25MB	55W	8.0GT/s	2133
E5-2623v4	2.6GHz	4	10MB	85W	8.0GT/s	2133
E5-2620v4	2.1GHz	8	20MB	85W	8.0GT/s	2133
E5-2609v4	1.7GHz	8	20MB	85W	6.4GT/s	1866
E5-2603v4	1.7GHz	6	15MB	85W	6.4GT/s	1866
E5-2699Av4	2.4 GHz	22	55MB	145W	9.6GT/s	2400
	onsuming up to 12 suming over 120w ance heat sink can Intel® C610 Series	20w ship with star ships with a High be added to help s Chipset	ndard heat sink. I Performance heat I reduce power con	sink as standard	. except the Intel Xe	on E5-2690v4
		Processor Family			following	
On System Management Chipset			or later) 4GB NAND urable via UEFI an		.O. Read and learn r	nore in the
Memory One of the following depending on model	Type: HPE SmartMemo	•	l Reduced (LRDIMI	Ч)		
Memory One of the following	Type: HPE SmartMemo	(RDIMM) or Load		ots per processor	, 4 channels per proc	cessor, 3 DIMMs
Memory One of the following	Type: HPE SmartMemo DDR4 Registered	(RDIMM) or Loac able 24	(12 DIMM s	lots per processor)	, 4 channels per proc	cessor, 3 DIMMs
Memory One of the following	Type: HPE SmartMemo DDR4 Registered DIMM Slots Availa Maximum Capacit	(RDIMM) or Loac able 24 ty 3TB	(12 DIMM s per channel (24 x 128G	lots per processor) 3 LRDIMM)	, 4 channels per prod	cessor, 3 DIMMs
Memory One of the following	Type: HPE SmartMemo DDR4 Registered DIMM Slots Availa Maximum Capacit (LRDIMM) Maximum Capacit	ry (RDIMM) or Loac able 24 ry 3TB ry 768G	(12 DIMM s per channel (24 x 128G B (24 x 32GB	lots per processor) 3 LRDIMM) RDIMM)	, 4 channels per prod	cessor, 3 DIMMs
Memory One of the following	Type: HPE SmartMemo DDR4 Registered DIMM Slots Availa Maximum Capacit (LRDIMM) Maximum Capacit (RDIMM) Maximum Capacit (NVDIMM) NVDIMM support 128GB D *NVDIMM * A maxim NVDIMM	(RDIMM) or Loac able 24 ty 3TB ty 768G ty 128G only with the E5- DIMMS cannot be s cannot be used num of 16 NVDIM Is are only suppor	(12 DIMM s per channel) (24 x 128G) B (24 x 32GB) B (16 x 8GB N) 2600v4 processor mixed with any oth d with LRDIMMs. IMs can be support	lots per processor) 3 LRDIMM) RDIMM)* IVDIMM)* s, and RDIMMs on er size DIMMs. ed. igured servers wit	ly h E5-2600 v4 proce	
Memory One of the following	Type: HPE SmartMemo DDR4 Registered DIMM Slots Availa Maximum Capacit (LRDIMM) Maximum Capacit (RDIMM) Maximum Capacit (NVDIMM) NVDIMM support 128GB D • *NVDIMM • *A maxim • NVDIMM	(RDIMM) or Loac able 24 ty 3TB ty 768G ty 128G only with the E5- DIMMS cannot be s cannot be used hum of 16 NVDIM is are only suppor d on servers uppr d on servers uppr	(12 DIMM s per channel) (24 x 128G B (24 x 32GB B (16 x 8GB N 2600v4 processor mixed with any oth d with LRDIMMs. IMs can be support ted on factory conf raded from E5-260	lots per processor) 3 LRDIMM) RDIMM) IVDIMM)* s, and RDIMMs on er size DIMMs. ed. igured servers wit 0 v3 to E5-2600 1 le device data cor	ly h E5-2600 v4 proce v4 processors.	essors, not

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Standard Features

Expansion Slots

	•	# Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCle 3.0	X16	X16	7	Full-height, ¾ length (up to 9.5") Slot	Proc 1
	2	PCle 3.0	X8	X8	10	Low profile	Proc 1
	NOTE: Bus Width	indicates the n	umber of	physical electrical lane	es running to t	the connector.	
Secondary Riser	Expansion Slots #	# Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	3	PCle 3.0	X16	X16	16	Full-height, full- length slot Low profile	Proc 2
	3	PCle 3.0	X16	X16	20	Full-height, ¾ length (up to 9.5") slot	Proc 2*
	NOTE: *If seconda are supported max		249-B21)) is installed, then prim	ary PCIe Slot	2 cannot be used. Onl	y 2 FH slots
Controller One of the following depending		0v3 Entry mod	lels, the e	mart Host Bus Adapter mbedded B140i will oj	perate in UEF	I mode only.	
on model	• For CTO c	orders please al Ided B140i def TA only models HPE F	so select aults to a s if neede lexible Sr	ional controller will be HPE Legacy FIO Mode AHCI off the chipset. H d. nart Array P440ar/2GE nart Array P440ar/2GE	Setting (758 HPE Dynamic		er needs to t

NOTE: The 2SFF kit comes with cable for internal B140i SATA controller.

For SAS an alternate storage controller and cable kit are required.

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Standard Features

Maximum Internal		CAPACITY	CONFIGURATION
Storage	Hot Plug SFF SAS SSD	153.0TB	10 x 15.3TB
	Hot Plug SFF SATA SSD	76.8TB	10 x 7.68TB
	Hot Plug SFF SAS	20.0TB	10 x 2.0TB
	Hot Plug SFF SATA	20.0TB	10 x 2.0TB
	Hot Plug LFF SAS SSD	6.4TB	4 x 1.6TB
	Hot Plug LFF SATA SSD	15.36TB	4 x 3.84TB
	Hot Plug LFF SAS	48.0TB	4 x 12TB
	Hot Plug LFF SATA	48.0TB	4 x 12TB
	Hot Plug SFF NVMe PCle SSD	61.44.TB	6 x 7.68TB NVMe + 4 x 3.84TB SFF SSD

Power Supply

One of the following depending on model

HPE 500W Flex Slot Platinum Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HPE 800W Flex Slot Platinum Hot Plug Power Supply

NOTE: Also available in 96%.

NOTE: Also available in -48VDC and 227VAC/380VDC power inputs 720480-B21 Universal PSU.

HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HPE Flexible Slot Battery Backup Unit Kits

NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration.

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen9 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (AOK02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the **ProLiant Power Cables** web page.

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

Power specifications and technical content for all HPE Server power supplies can be found at <u>http://www.hpe.com/info/proliant/powersupply</u>.

System Fans		Non-redundant	Redundant
One of the following depending on model	1P model	N/A	5 fans
		Non-redundant	Redundant
	2P model	N/A	7 fans
	NOTE: The second processor of	option kit contains two fans.	
	NOTE: High Performance Fan	Kit, 766201-B21, is available to n	neet some extended ambient operating
			ambient configurations are detailed
	at: http://www.hpe.com/serve	ers/ashrae.	

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Standard Features

Sidiludiu rediule					
Interfaces	Serial	1			
	NOTE: Serial Cable Option Kit: 764646-B21.				
	Video	1 rear (Standard) 1 front (Optional)			
	the second s	available for 8SFF and 4LFF models. This QuickSpecs for more details.			
	Network RJ-45 (Ethernet)	Embedded 4x1GBE + FlexibleLOM bay			
	NOTE: Both the SFF and LF See HPE Networking sectio	F chassis have an embedded 4x1GbE NIC and FlexibleLOM bay. n below for more details.			
	HPE iLO Remote Management Network Port	1 Gb Dedicated			
	SD Connector	1 micro SD Internal			
	NOTE: The Micro SD slot is into the SD slot while the se	not a hot-pluggable device. Customers should not attempt to plug an SD card erver is powered.			
	USB 3.0	5 total: 2 rear, 1 front, 2 internal			
Operating Systems	Microsoft Windows Server Red Hat Enterprise Linux (RHEL)				
Operating Systems and Virtualization		RHEL)			
and Virtualization Software Support for	Red Hat Enterprise Linux (
and Virtualization	Red Hat Enterprise Linux (
and Virtualization Software Support for	Red Hat Enterprise Linux (SUSE Linux Enterprise Ser				
and Virtualization Software Support for	Red Hat Enterprise Linux (SUSE Linux Enterprise Ser Canonical Ubuntu				
and Virtualization Software Support for	Red Hat Enterprise Linux (SUSE Linux Enterprise Ser Canonical Ubuntu Oracle Linux				
and Virtualization Software Support for	Red Hat Enterprise Linux (SUSE Linux Enterprise Ser Canonical Ubuntu Oracle Linux CentOS				
and Virtualization Software Support for	Red Hat Enterprise Linux (SUSE Linux Enterprise Ser Canonical Ubuntu Oracle Linux CentOS VMware				
and Virtualization Software Support for	Red Hat Enterprise Linux (SUSE Linux Enterprise Ser Canonical Ubuntu Oracle Linux CentOS VMware Citrix XenServer				
and Virtualization Software Support for	Red Hat Enterprise Linux (SUSE Linux Enterprise Ser Canonical Ubuntu Oracle Linux CentOS VMware Citrix XenServer Oracle Solaris Wind River Linux NOTE: For more informatio OS and Virtualization Softw. to purchase from Hewlett P				

Up to 24 DIMM slots available for higher Memory capacity

Up to 10 SFF Hard Drive Bays; or 4 LFF Hard Drive Bays

FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options

Optional 3 slot riser (x16, x16, x8), or 2 slot primary riser (x16, x8)

3 PCIe 3.0 I/O slots for additional communications and storage expansion

NOTE: Slot 1 and 2 Riser Shipped Standard. Slot 3 Optional 1 FH, ¾ length and 2 Low Profile slots available or two FH, ¾ length slots.

Redundant Power Supplies

Optical Drive supported via Universal Media Bay 8SFF Chassis with: Option Kit 764632-B21 VGA, SFF DVD-RW USB Kit Option Kit 818213-B21 VGA, SFF DVD-ROM USB Kit

4LFF Model with: Option Kit 726536-B21 - HPE 9.5mm SATA DVD-ROM Jb Gen9 Kit

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Standard Features

Option Kit 726537-B21 - HPE 9.5mm SATA DVD-RW Jb Gen9 Kit

Industry Standard	ACPI 2.0b Compliant						
Compliance	PCIe 3.0 Compliant						
	PXE Support						
	WOL Support Microsoft® Logo certifications USB 3.0 Support Energy Star						
							ASHRAE A3/A4
							NOTE: The DL360 Gen9 is now one of the first HPE ProLiant Gen9 Servers with Extended Ambien Support up to 45C for data center infrastructures designed for better energy efficiency.
	For additional technical thermal details regarding ambient temperatures, humidity and features suppor please visit http://www.hpe.com/servers/ashrae .						
Graphics	Integrated Matrox G200 video standard with 16MB of Video RAM						
	 1280 x 1024 (32 bpp) 1920 x 1200 (16 bpp) 						
	• 1920 x 1200 (16 bpp)						
HPE Server UEFI/Legacy ROM	Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot Mode. NOTE: The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <u>http://www.hpe.com/servers/uefi</u> .						
	 UEFI enables numerous new capabilities specific to HPE ProLiant servers such as: Secure Boot Operating system specific functionality Support for > 2.2 TB (using GPT) boot drives USB 3.0 Stack 						
	 Embedded UEFI Shell Mass Configuration Deployment Tool using RESTful API for iLO 4 						
	 PXE boot support for IPv6 networks Boot support for option cards that only support a UEFI option ROM Network Stack configurations 						
	 Network Stack configurations NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI. 						
	NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen9 Server.						
Form Factor	1U Rack form factor						
One of the following depending on model	8 SFF Drive Bay Version and 10 SFF Drive Bay Version: 1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 27.5" (69.85cm) Length 4 LFF Drive Bay Version:						
	1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 29.5" (74.67cm) Length NOTE: Dimensions without bezel.						

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Standard Feat	ures	
Embedded Management	HPE Integrated Lights-Out (HPE iLO)	Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at http://www.hpe.com/info/ilo .
	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <u>http://www.hpe.com/servers/uefi</u> .
	RESTful API	RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at <u>http://www.hpe.com/info/restfulapi</u> .
	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning .
	Embedded Remote Support	The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at 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). 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-Hewlett Packard Enterprise servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at <u>http://www.hpe.com/servers/hpsim</u> .
		Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at <u>http://www.hpe.com/servers/proliant/stk</u> or <u>http://www.hpe.com/servers/powershell</u> .
	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 <u>http://www.hpe.com/info/resttool</u> .
	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 .
		ine ne, available at no additional cost as part of your Hewlett Packard Enterprise warranty or ort agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified

HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at https://support.hpe.com/hpsc/doc/public/display?docld=emr_na-c03355402&docLocale=en_US

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Standard Features

Security

Power-on password Keyboard password QuickLock, Network Server Mode Serial interface control Administrator's password iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption iLO 4 can be disabled via a Global Setting Integrated Lights-Out can be disabled via a Global Setting iLO Advanced supports directory services integration TPM 2.0 UEFI

Warranty

This product is covered by a global limited warranty and supported by Hewlett Packard Enterprise Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational 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, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at:

http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/

Optional Features

Server Management	HPE Insight Control	HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hpe.com/info/insightcontrol .
	HPE Insight Cluster Management Utility (CMU)	HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at <u>http://www.hpe.com/info/cmu</u> .
Rack and Power Infrastructure	existing or new protection and looking for to h changes in the provision infrast positioned to ad	Power Infrastructure products and services create highly efficient and intelligent solutions for IT data centers. HPE Rack and Power infrastructure solutions – rack infrastructure, power management, performance optimized data centers (PODs) – are the foundation you are lelp secure your long-term IT success. These products are designed to help you react to industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and ructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely ldress the key concerns of power, cooling, cable management and system access.
High Performance Clusters	HPE Insight Cluster Management Utility (CMU)	HPE Insight Cluster Management Utility is a Hyperscale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at http://www.hpe.com/info/cmu .
HPC Interconnects	the HPE Clust by Hewlett Pack defined with a	rformance Computing (HPC) interconnect technologies are available for this server under er Platform product portfolio. These high-speed interconnects are fully supported kard Enterprise when they are part of these configure to order clusters. Solutions can be lot of flexibility with the help of configuration tools. Please visit the following URL to C clusters with InfiniBand Interconnects: <u>https://www.hpe.com/info/hpc/solutions</u> .

Storage Software

Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than Hewlett Packard Enterprise storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities. Storage software that gets the job done:

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

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

• Storage Resource Management Software (SRM)

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

• Data Replication Software

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

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Optional Features

• 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

Enable highly available and clustered storage in your HPE ProLiant servers with virtualized storage: Add StoreVirtual VSA to multiple servers, manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. To simplify deployment, Hewlett Packard Enterprise offers StoreVirtual Ready Nodes, pre-defined reference configurations for converged vSphere and Hyper-V virtualization solutions. You also have the option to install free 1TB-capacity StoreVirtual VSA software during server setup within Intelligent Provisioning. HPE ProLiant Gen9 servers include a 3-year limited license for this HPE software-defined storage at no extra cost. More information, instructional videos, and free management software are available

at http://www.hpe.com/storage/storevirtual

NOTE: For more information about Storage Software including QuickSpecs, please see:

https://www.hpe.com/us/en/solutions/hpc-high-performance-computing/hpc-software.html

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. <u>http://ocs.ext.hpe.com/</u>.

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Service and Support

HPE Support Services

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

Connect your devices

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

¹⁻ IDC

²⁻ HPE CSC reports 2014 - 2015

Recommended Support

Standard: HPE Proactive Care* with 24x7 coverage, three year Support Service

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

https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

Optimized HPE Proactive Care* with 6 hour call-to-repair commitment, 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 highest level of hardware support – Hewlett Packard Enterprise 24x7, six hour hardware call-to-repair. 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. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your Hewlett Packard Enterprise servers.

https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

Parts and Materials

Hewlett Packard Enterprise will provide HPE-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 quick-specs, 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.

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Service and Support

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 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. **http://www.hpe.com/ww/learn**

HPE Support Center

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

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

The Hewlett Packard Enterprise Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.*HPE Support Center Mobile App is subject to local availability. For more information: <u>http://www.hpe.com/services</u>

Parts and Materials

Hewlett Packard Enterprise will provide HPE-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 quick-specs, 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.

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Pre-configured Models

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

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

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

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

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

NOTE: All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html web page.

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

	Entry Models	Base Models
[SKU Number]	818207-B21	818208-B21
Model Name	HPE ProLiant DL360 Gen9 E5-2603v4 1.7GHz 6- core 1P 8GB-R H240ar 8SFF 500W PS Entry SAS Server	HPE ProLiant DL360 Gen9 E5-2630v4 2.2GHz 10-core 1P 16GB-R P440ar 8SFF 500W PS Base SAS Server
Processor	Intel® Xeon® E5-2603v4	Intel® Xeon® E5-2630v4
Number of Processors	0	ne
Memory	8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: With E5-2603 v4 Processor, the actual DIMM speed will operate at 1866 MHz depending on DIMM configuration.	16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: With E5-2630 v4 Processor, the actual DIMM speed will operate at 2133 MHz depending on DIMM configuration.
Network Controller	HPE Embedded 1Gb Ethe	ernet 4-port 331i Adapter
Storage Controller	HPE H240ar Smart Host Bus Adapter	HPE Flexible Smart Array P440ar/2GB
Hard Drive	None ship standard	
Internal Storage	8 SFF HDD Bays	
Optical Drive Bay	I Drive Bay Optional via Universal Media Bay	
PCI-Express Slots	2 Standard (1-FH/	¾ L, 1-LP) PCIe 3.0
Power Supply	(1) HPE 500W Flex Slo	t Platinum Power Supply
Fans	5 standard hot plu	ug fans, redundant
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HPE OneView (optional)	
Form Factor	Rack (1U), HPE	Easy Install Rails
Warranty	nty 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response	

QuickSpecs

HPE ProLiant DL360 Gen9 Server

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

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

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

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

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

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

CTO Server	HPE ProLiant DL360 Gen9 4LFF Configure-to-order	HPE ProLiant DL360 Gen9 8SFF Configure-to-	
	Server	order Server	
SKU Number 755259-B21 755		755258-B21	
Processor	2 (optional) x HPE S	2 (optional) x HPE Smart Socket Guide	
DIMM Slots	24 DIMM slots for RDIMM	, LRDIMM DDR4 Memory	
Storage Controller	HPE Dynamic Smart Array B140i		
PCle	2 PCIe 3.0 Slots: Slot 1, FH / ¾ Length; Slot 2, Low Profile		
Drive Cage	4LFF Hot Plug 8SFF Hot Plug		
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter		
Fans	5 standard hot plug fans, redundant		
Management	iLO Management (standard), Intelligent Provisioning (standard)		
USB	1 front, 2 internal, 2 rear		
Ears	HPE Quick Release Ears		

NOTE: 4LFF CTO Server includes one SATA Cable (766213-B21), which attaches to the B140i controller. **NOTE:** 8SFF CTO Server includes two 4 x Mini-SAS Cables (766209-B21), which attach to an optional HPE Smart HBA H240ar or HPE Smart Array P440ar controller.

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

HPE Processors E5-2600v4 series Processors

HPE DL360 Gen9 Intel Xeon E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit	818166-L21
HPE DL360 Gen9 Intel Xeon E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit NOTE: This processor does not support Hyper-Threading.	818168-L21
HPE DL360 Gen9 Intel Xeon E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit NOTE: This processor does not support Hyper-Threading.	818170-L21
HPE DL360 Gen9 Intel Xeon E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit	818172-L21
HPE DL360 Gen9 Intel Xeon E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit	818190-L21
HPE DL360 Gen9 Intel Xeon E5-2637v4 (3.5GHz/4-core/15MB/135W) FIO Processor Kit	818192-L21
HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) FIO Processor Kit	818194-L21
HPE DL360 Gen9 Intel Xeon E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	818176-L21
HPE DL360 Gen9 Intel Xeon E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	818178-L21
HPE DL360 Gen9 Intel Xeon E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit	818180-L21
HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) FIO Processor Kit	818182-L21
HPE DL360 Gen9 Intel Xeon E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit	818184-L21
HPE DL360 Gen9 Intel Xeon E5-2690v4 (2.6GHz/14-core/35MB/135W) FIO Processor Kit	818186-L21
HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) FIO Processor Kit	818188-L21

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Configuration Information - Factory Integrated Models

	HPE DL360 Gen9 Intel Xeon E5-2667v4 (3.2GHz/8-core/25MB/135W) FIO Processor Kit HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) FIO Processor Kit HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Processor Kit HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) FIO Processor Kit HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/10-core/25MB/145W) FIO Processor Kit HPE DL360 Gen9 Intel Xeon E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit NOTE: If two processors are desired, select one xxxxx-L21 and one corresponding xxxxx-B22 NOTE: Up to two processors supported. Mixing different processor models is not supported.	818196-L21 818198-L21 818202-L21 818204-L21 818206-L21 818174-L21
	NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed may the quantity and type of DIMMs installed.	y depend on
	NOTE: v4 Processors require PC4-2400T Memory Kits.	
	NOTE: For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indi Product Line (E3, E5, E7); 2600x v#, 2=number of CPUs in a Node, 6 is socket/segment designa 00=Processor SKU, x=L for Low Power SKUs and v# (not yet designated)=version number.	
HPE Memory	NOTE: Select one or more memory kits from below.	
	NOTE: LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a serve majority of ProLiant Gen9 servers support LRDIMM and RDIMM	/er. The
	NOTE: HPE memory from previous generation servers are not qualified or warranted with this H Server. HPE SmartMemory is required to realize the memory performance improvements and en functionality listed in this document for Gen9	
	NOTE: If only one processor is installed, only half of the total DIMM slots are available. When po two processors all DIMM slots are available	pulating with
	NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Ener Features, see: <u>https://www.hpe.com/us/en/about/environment/eco-labels.html</u>	gy Efficient
	NOTE: Depending on the memory configuration and processor model, the memory speed may r 2400MHz, 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table Memory Configuration Tool	
	Registered DIMMs (RDIMMs) for E5-2600v4 Series	
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
	HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
	HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
	Load Reduced DIMMs (RDIMMs) for E5-2600v4 Series	
	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
	HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B21
	HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit NOTE: 128GB DIMMs cannot be mixed with any other size DIMMs.	809208-B21
HPE Power Supplies	NOTE: Prior to selecting a power supply option, it is highly recommended that you review your configuration in the HPE Power Advisor tool to determine the right size power supply for your sconfiguration. The HPE Power Advisor is located at: <u>https://paonline56.itcs.hpe.com/?Page=In</u>	server
	NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, receive an error message and/or experience operational issues with your server.	
	NOTE: Support for HPE Power Discovery Services is included with the 1400W Flex Slot option. specifications and technical content for all HPE Server power supplies can be found at: https://www.hpe.com/us/en/product-catalog/servers/power-supplies.hits-12.html	Power
	NOTE: Maximum of two (2) Flex Slot Power Supplies per platform.	
		_
		Paga 18

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Configuration Information - Factory Integrated Models

HPE Flex Slot Hot-Plug Power Supplies

	HPE Flex Slot Hot-Plug Power Supplies	
	HPE 500W Flex Slot Platinum Hot Plug Power Supply Kit NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	720478-B21
	HPE 800W Flex Slot Platinum Hot Plug Power Supply Kit NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	720479-B21
	HPE 800W Flex Slot Titanium Hot Plug Power Supply Kit NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	720482-B21
	HPE 800W Flex Slot -48VDC Hot Plug Power Supply Kit NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%	720480-B21
	HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).	720620-B21
Step 3: Choose	Additional Factory Integratable Options (only one of the following from each list unless otherw	vise noted)
HPE Storage Controllers	NOTE: The embedded B140i controller will be used as the primary controller if no controller is the list below. Embedded SATA controller can support up to 8 SATA hard drives. Cable kit may	
	HPE Smart Array Controllers	
	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	749974-B21
	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes one PCIe slot. NOTE: Includes the HP Smart Storage Battery	761872-B21
	HPE Smart Host Bus Adapters	
	HPE H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	749976-B21
	HPE H240 12Gb 2-ports Int FIO Smart Host Bus Adapter	761873-B21
	HPE Cable Options	
	HPE DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable	766211-B21

	HPE DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable NOTE: Required with P440ar/2GB (749974-B21) or H240ar (749976-B21) if using the HP ProLiant DL360 Gen9 4LFF CTO Server (755259-B21)	766211-B21
	HPE DL360 Gen9 SFF Embedded SATA Cable NOTE: Required with the HP ProLiant DL360 Gen9 8SFF CTO Server (755258-B21) if using the embedded B140i as primary controller	766207-B21
	HPE DL360 Gen9 SFF Smart Array P440/H240 SAS Cables NOTE: Required with P440/4GB (761872-B21) or H240 (761873-B21) if using the HP ProLiant DL360 Gen9 8SFF CTO Server (755258-B21)	775927-B21
	HPE DL360 Gen9 LFF Smart Array P440/H240 SAS Cables NOTE: Required with P440/4GB (761872-B21) or H240 (761873-B21) if using the HP ProLiant DL360 Gen9 4LFF CTO Server (755259-B21)	775929-B21
BIOS Mode	HPE Legacy FIO Mode Setting NOTE: If selected, then B140i will not be supported and can no longer be a primary controller therefore, SAS internal controller must be selected to be the primary controller	758959-B22
Controller State	HPE FIO Enable Smart Array SW RAID NOTE: Must be selected when B140i is used as the primary controller and RAID is desired.	784308-B21
	HPE Manufacturing FIO Enable HBA Mode Setting	792962-B21

QuickSpecs HPE ProLiant DL360		Gen9 Server
Configuration Information - Factory Integrated Models		
	NOTE: When selected if H240ar/H240 are used as the primary controller then RAID is not allowed.	
HPE Converged	HPE OneView Advanced (with HPE iLO Advanced)	
Infrastructure Management	HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
Software	HPE OneView Advanced (without HPE iLO Advanced)	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
Step 4: Choose A	dditional Options for Factory Integration from Core and Additional Options Sections below.	
	CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are	

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

QuickSpecs

HPE ProLiant DL360 Gen9 Server

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 Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

HPE Unique	HPE DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit	764630-B21
Options	NOTE: Required when upgrading from an 8SFF config to a 10SFF config. This option kit is not su	
	the 4LFF CTO Server and cannot be used with the DVD-ROM or DVD-RW Universal Media Bay op	otion kits.
	NOTE: This kit contains a cable to attach the 2 drives to the internal B140i SATA controller. For SAS, an alternate storage controller and its associated cable kit are required.	
	HPE DL360 Gen9 SFF DVD-RW/USB Universal Media Bay Kit	764632-B21
	NOTE: DVD-RW, USB 2.0 and VGA included. This option kit cannot be used with the 2 SFF	704032 021
	SAS/SATA option kit (764630-B21).	
	HPE DL360 Gen9 SFF DVD/USB Universal Media Bay Kit	818213-B21
	NOTE: DVD ROM, USB 2.0 and VGA included. This option kit cannot be used with the 2 SFF SAS/SATA option kit (764630-B21).	
	HPE DL360 Gen9 SFF USB/VGA Universal Media Bay Kit	764634-B21
	NOTE: Adds front VGA and USB 2.0 ports to SFF models.	
	This option kit cannot be used with the 2 SFF SAS/SATA option kit (764630-B21).	
	HPE DL360 Gen9 High Performance Heat Sink Kit	795235-B21
	NOTE: These are included in some higher Watt processors (see processor section), but may	
	also be added to lower power processors to reduce fan power consumption.	
	HPE DL360 Gen9 Rear Serial Port and Enablement Kit	764646-B21
	HPE DL360 Gen9 SFF Systems Insight Display Kit	764636-B21
	NOTE: Adds a System Insight Display for improved diagnosis capabilities on an 8FF or 10SFF model.	
	HPE DL360 Gen9 NVMe 2 Solid State Drive Express Bay Enablement Kit	764628-B21
	NOTE: This option provides support for up to 2 NVMe SFF drives. This option cannot be used with	n the Universal
	NOTE: The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) will be required with this NOTE: The PCIe card in this enablement kit can only be populated in slot1 of primary riser or in slot	
	optional FH riser.	
	HPE DL360 Gen9 6 NVMe + 4 SAS/SATA Express Bay Enablement Kit	817676-B21
	NOTE: This option kit provides support for up to 6 NVMe drives (drives 5-10).	
	NOTE: The PCIe card in this enablement kit can only be populated in slot1 of primary riser.	
	HPE DL360 Gen9 LFF USB/VGA Kit	764638-B21
	NOTE: Adds front VGA and USB 2.0 ports to LFF models. This option kit cannot be used with the 2 SFF SAS/SATA Option Kit (764630-B21).	
	HPE DL360 Gen9 LFF Systems Insight Display Kit	764640-B21
	NOTE: Adds a System Insight Display for improved diagnosis capabilities on a 4LFF model.	/ U4U4U-DZI
	HPE DL360 Gen9 Location Discovery Services Ear Kit	764757-B21
	NOTE: Requires ProLiant Location Discovery Services Infrastructure within server racks.	, OT / D/ D/L

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Core Options

HPE E5-2600v4 series Processors

HPE DL360 Gen9 Intel Xeon E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit 818176-B21 HPE DL360 Gen9 Intel Xeon E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit 818178-B21 HPE DL360 Gen9 Intel Xeon E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit 818180-B21 HPE DL360 Gen9 Intel Xeon E5-2660v4 (2.4GHz/14-core/35MB/105W) Processor Kit 818184-B21 HPE DL360 Gen9 Intel Xeon E5-2660v4 (2.4GHz/14-core/35MB/135W) Processor Kit 818186-B21 HPE DL360 Gen9 Intel Xeon E5-2667v4 (3.2GHz/8-core/25MB/135W) Processor Kit 818196-B21 NOTE: Ships with a High Performance Heatsink 818174-B21 HPE DL360 Gen9 Intel Xeon E5-2650v4 (1.7GHz/14-core/15MB/85W) Processor Kit 818166-B21 HPE DL360 Gen9 Intel Xeon E5-2603v4 (1.7GHz/14-core/15MB/85W) Processor Kit 818166-B21 HPE DL360 Gen9 Intel Xeon E5-2603v4 (1.7GHz/8-core/20MB/85W) Processor Kit 818170-B21 NOTE: This processor does not support Hyper-Threading. 818170-B21 HPE DL360 Gen9 Intel Xeon E5-2603v4 (2.6GHz/4-core/10MB/85W) Processor Kit 818190-B21 NOTE: This processor does not support Hyper-Threading. 818104-B21 HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.5GHz/4-core/10MB/85W) Processor Kit 818192-B21 NOTE: Ships with a High Performance Heatsink 818194-B21 HPE DL360 Gen9 Intel Xeon			
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HPE DL360 Gen9 Intel Xeon E5-2623v4 (2,6GHz/4-core/10MB/85W) Processor Kit818190-B21HPE DL360 Gen9 Intel Xeon E5-2637v4 (3,5GHz/4-core/15MB/135W) Processor Kit818192-B21NOTE: Ships with a High Performance Heatsink818194-B21HPE DL360 Gen9 Intel Xeon E5-2643v4 (3,4GHz/6-core/20MB/135W) Processor Kit818194-B21NOTE: Ships with a High Performance Heatsink818194-B21HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2,6GHz/16-core/40MB/145W) Processor Kit818182-B21NOTE: Ships with a High Performance Heatsink818182-B21HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3,0GHz/12-core/30MB/160W) Processor Kit818188-B21NOTE: Ships with a High Performance Heatsink818188-B21HPE DL360 Gen9 Intel Xeon E5-2683v4 (2,1GHz/16-core/40MB/120W) Processor Kit818198-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2,3GHz/18-core/40MB/120W) Processor Kit8181202-B21NOTE: Ships with a High Performance Heatsink818202-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2,2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: Ships with a High Performance Heatsink818206-B21<		HPE DL360 Gen9 Intel Xeon E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	818170-B21
HPE DL360 Gen9 Intel Xeon E5-2637v4 (3.5GHz/4-core/15MB/135W) Processor Kit818192-B21NOTE: Ships with a High Performance Heatsink818194-B21HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit818194-B21NOTE: Ships with a High Performance Heatsink818192-B21HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit818182-B21NOTE: Ships with a High Performance Heatsink818182-B21NOTE: Ships with a High Performance Heatsink818188-B21NOTE: Ships with a High Performance Heatsink8181898-B21NOTE: Ships with a High Performance Heatsink818198-B21HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit8181202-B21NOTE: Ships with a High Performance Heatsink818202-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: Ships with a High Performance He		NOTE: This processor does not support Hyper-Threading.	
NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit818194-B21NOTE: Ships with a High Performance Heatsink818182-B21HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit818182-B21NOTE: Ships with a High Performance Heatsink818188-B21HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit818188-B21NOTE: Ships with a High Performance Heatsink818188-B21HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/40MB/120W) Processor Kit818108-B21NOTE: Ships with a High Performance Heatsink818108-B21HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit818202-B21NOTE: Ships with a High Performance Heatsink818202-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.NOTE: Processors consuming up to 120w ship with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		HPE DL360 Gen9 Intel Xeon E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit	818190-B21
HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit818194-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit818182-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit818188-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit818198-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit818202-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818204-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818204-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2609v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance HeatsinkNOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.NOTE: Processors consuming up to 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		HPE DL360 Gen9 Intel Xeon E5-2637v4 (3.5GHz/4-core/15MB/135W) Processor Kit	818192-B21
NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit818182-B21NOTE: Ships with a High Performance Heatsink818188-B21HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit818188-B21NOTE: Ships with a High Performance Heatsink818188-B21HPE DL360 Gen9 Intel Xeon E5-2683Vv4 (2.1GHz/16-core/40MB/120W) Processor Kit818198-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit818202-B21NOTE: Ships with a High Performance Heatsink818202-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.NOTE: Processors consuming up to 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		NOTE: Ships with a High Performance Heatsink	
HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit818182-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit818188-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit818198-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/40MB/120W) Processor Kit818202-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/40MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2609 v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance HeatsinkNOTE: Ships with a High Performance HeatsinkNOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.NOTE: Processors consuming up to 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit	818194-B21
NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit818188-B21NOTE: Ships with a High Performance Heatsink818198-B21HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit818198-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit818202-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.NOTE: Processors consuming up to 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		NOTE: Ships with a High Performance Heatsink	
HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit818188-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit818198-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit818202-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818204-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2609 v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance HeatsinkNOTE: Ships with a Gene E5-2600 v3 and E5-2600 v4 processors is not supported.NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.NOTE: Processors consuming up to 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit	818182-B21
NOTE: Ships with a High Performance HeatsinkHPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit818198-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit818202-B21NOTE: Ships with a High Performance Heatsink818204-B21HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported.818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.818206-B21NOTE: Processors consuming up to 120w ships with standard heat sink.818206-B21NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.818204-B21		NOTE: Ships with a High Performance Heatsink	
HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit818198-B21HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit818202-B21NOTE: Ships with a High Performance Heatsink818204-B21HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance Heatsink818204-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.NOTE: Processors consuming up to 120w ship with standard heat sink.NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit	818188-B21
HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit818202-B21NOTE: Ships with a High Performance Heatsink818204-B21HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance Heatsink818206-B21HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.818206-B21NOTE: Processors consuming up to 120w ship with standard heat sink.NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		NOTE: Ships with a High Performance Heatsink	
NOTE: Ships with a High Performance Heatsink818204-B21HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance Heatsink818206-B21HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported.818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.818206-B21NOTE: Processors consuming up to 120w ship with standard heat sink.818206-B21NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.818206-B21		HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit	818198-B21
HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit818204-B21NOTE: Ships with a High Performance Heatsink818206-B21HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance Heatsink818206-B21NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported.818206-B21NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.818206-B21NOTE: Processors consuming up to 120w ship with standard heat sink.818206-B21NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit	818202-B21
NOTE: Ships with a High Performance Heatsink818206-B21HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit818206-B21NOTE: Ships with a High Performance HeatsinkNOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported.NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.NOTE: Processors consuming up to 120w ship with standard heat sink.NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4.		NOTE: Ships with a High Performance Heatsink	
 HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit 818206-B21 NOTE: Ships with a High Performance Heatsink NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported. NOTE: All processors support Hyper-Threading <i>except</i> E5-2609 v4/v3 and E5-2603 v4/v3. NOTE: Processors consuming up to 120w ship with standard heat sink. NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4. 		HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit	818204-B21
NOTE: Ships with a High Performance Heatsink NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported. NOTE: All processors support Hyper-Threading <i>except</i> E5-2609 v4/v3 and E5-2603 v4/v3. NOTE: Processors consuming up to 120w ship with standard heat sink. NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4		NOTE: Ships with a High Performance Heatsink	
 NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported. NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3. NOTE: Processors consuming up to 120w ship with standard heat sink. NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4 		HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit	818206-B21
NOTE: All processors support Hyper-Threading <i>except</i> E5-2609 v4/v3 and E5-2603 v4/v3. NOTE: Processors consuming up to 120w ship with standard heat sink. NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4		NOTE: Ships with a High Performance Heatsink	
NOTE: Processors consuming up to 120w ship with standard heat sink. NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4		NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported.	
NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4			
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			except the intel
			5-B21).

HPE Memory Registered DIMMs (RDIMMs) for E5-2600v4 Series

HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17 Registered Memory Kit805351-B21HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17 Registered Memory Kit805349-B21HPE 16GB (1x16GB) Dual Rank x8 DDR4-2400 CAS-17-17 Registered Smart Memory KitP00423-B21NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MHz.P00423-B21

QuickSpecs	HPE ProLiant DL	360 Gen9 Server
Core Optio	ns	
	NOTE: Mixing of DIMM types is not supported. NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.	
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series	
	HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit	809208-B21
	NOTE: 128GB DIMMs cannot be mixed with any other size DIMMs.	
	HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B21
	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
	Registered DIMMs (RDIMMs) for E5-2600v3 Series	
	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
HPE Optical	HPE 9.5mm SATA DVD-ROM Optical Drive	726536-B21
Drives	HPE 9.5mm SATA DVD-RW Optical Drive	726537-B21
	HPE DL360 Gen9 SFF DVD/USB Universal Media Bay Kit	818213-B21
	NOTE: Front DVD ROM, USB 2.0, and VGA and optical cable.	
	HPE DL360 Gen9 SFF DVD-RW/USB Universal Media Bay Kit	764632-B21
	NOTE: Front DVD-RW, USB 2.0 and VGA, and optical cable.	
	HPE Mobile USB DVD-RW Optical Drive	701498-B21
	NOTE: This is only supported on USB 3.0 ports.	

HPE Drives

12G SAS 10K Hot Plug SFF (2.5-inch) SC Hard Drives - 3yr Warranty

HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	881457-B21
HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
12G SAS 15K Hot Plug SFF (2.5-inch) SC Hard Drives - 3yr Warranty	
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870759-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870757-B21
HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21
12G SAS 7.2K Hot Plug SFF (2.5-inch) SC Midline Hard Drives - 1yr Warranty	
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	832514-B21
12G SAS 7.2K Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty	
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765464-B21
12G SAS 10K Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty	
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
12G SAS Hot Plug LFF (3.5-inch) SC 512e Hard Drives- 3yr Warranty	
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861754-B21
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819201-B21
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857644-B21
HPE 14TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	P09163-B21
HPE 14TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	P09153-B21

QuickSpecs

Core Options

12G SAS Hot Plug LFF (3.5-inch) SC Enterprise Hard Drives - 3yr Warranty

HPE 600GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD	P04695-B21
HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD	P04693-B21
12G SAS Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty	
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872487-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872487-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872485-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872485-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846514-B21
HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846524-B21

SSD Selection

To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located here: <u>http://www.hpe.com/products/recommend</u>.

12G SAS Hot Plug SFF (2.5-inch) Write Intensive Solid State Drives - 3yr Warranty

5	
HPE 3.2TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04547-B21
HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04545-B21
HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09102-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09100-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04543-B21
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09098-B21
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04541-B21
12G SAS Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives - 3yr Warranty	
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04523-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04521-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04519-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04517-B21
HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06592-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06590-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06588-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06586-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06584-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872394-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872392-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872390-B21
HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870148-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870144-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875330-B21
12G SAS Hot Plug SFF (2.5-inch) SC Mixed Use-3 Solid State Drives - 3yr Warranty	
HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09096-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09094-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09092-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09090-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09088-B21
HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04539-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04537-B21

QuickSpecs	HPE ProLiant DL360 Gen9 Server
Core Options	
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04533-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04527-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04525-B21
12G SAS Mixed Use LFF (3.5in)	
HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	P04529-B21
6G SATA Hot Plug SFF (2.5 inch) SC Midline Hard Drives - 1yr Warranty	
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	655710-B21

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Core Options

6G SATA Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty

od sa ra hoi Flug SFF (2.5-liici) SC 512e hard Drives - 1yr Warranny	
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765455-B21
6G SATA Hot Plug LFF (3.5-inch) SC 512e Hard Drives - 1yr Warranty	
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819203-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861750-B21
HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	881785-B21
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857648-B21
6G SATA Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty	
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872491-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872491-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861691-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872489-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872489-B21
6G SATA Hot Plug SFF (2.5-inch) SC DS Read Intensive Solid State Drives - 3yr Warranty	
HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04482-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04480-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04478-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04476-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04474-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04570-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06198-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04566-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04564-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06196-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04560-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06194-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875503-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04556-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06200-B21
Read Intensive - 6G SATA - M.2 - Solid State Drives	
HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875498-B21
HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875500-B21
6G SATA Hot Plug SFF (2.5-inch) SC DS Mixed Use Solid State Drives - 3yr Warranty	
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872344-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives	
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives	
HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875492-B21
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875490-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use-2 Solid State Drives	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09722-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09716-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09712-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07930-B21

QuickSpecs

Core Options

HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P07926-B21 HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P07922-B21 P00896-B21 HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 6G SATA Read Intensive LFF (3.5in) HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09693-B21 HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09689-B21 HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09687-B21 6G SATA Hot Plug LFF (3.5-inch) SCC DS Mixed Use Solid State Drives - 3yr Warranty HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3vr Wtv Digitally Signed Firmware SSD P09724-B21 HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09718-B21 HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P07932-B21 HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P07928-B21 HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P07924-B21 HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 875476-B21 HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 872346-B21 HPE NVMe PCIe Read Intensive SFF (2.5 inch) SC2 Solid State Drives - 3yr Warranty HPE 7.68TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD P10218-B21 HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD P10216-B21 HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD P10214-B21 HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 877986-B21 HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 878014-B21 HPE 1.6TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card P10264-B21 HPE 3.2TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card P10266-B21 HPE 6.4TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card P10268-B21 HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05976-B21 HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05980-B21 HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05986-B21 HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05994-B21 HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05924-B21 HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05928-B21 HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05932-B21 HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05938-B21 P05946-B21 HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD HPE 960GB SAS 12G Mixed Use SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10448-B21 HPE 960GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Value SAS Digitally Signed Firmware SSD P10450-B21 HPE 1.92TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10454-B21 HPE 1.92TB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Value SAS Digitally Signed Firmware SSD P10456-B21 HPE 3.84TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10460-B21 HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10440-B21 HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10442-B21 HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10444-B21 HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10446-B21 **NOTE:** HPE NVMe drives need the enablement kit 764628-B21.

NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio using the Operating System inbox drivers. **NOTE:** For full detail please see the <u>HPE Solid State Drive QuickSpecs</u>.

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Core Options

HPE NVMe PCIe Mixed Use SFF (2.5 inch) SC2 Solid State Drives - 3yr Warranty

HPE NVMe PCIe Mixed Use SFF (2.5 inch) SC2 Solid State Drives - 3yr Warranty	
HPE 6.4TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10226-B21
HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10224-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10222-B21
HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	877998-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	877994-B21
NOTE: HPE NVMe drives need the enablement kit 764628-B21.	
NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio using the Operating System inb NOTE: For full detail please see the <u>HPE Solid State Drive QuickSpecs</u>	ox drivers.
M.2 SSD	
HPE Universal SATA HHHL 3yr Wty M.2 Kit	878783-B21
NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only.	
NOTE: M.2 supports Software RAID only.	
NOTE: No HPE Flexible Smart Array supported.	
Hard Drive Blank Kits	
HPE Large Form Factor Hard Drive Blank Kit	666986-B21
HPE Small Form Factor Hard Drive Blank Kit	666987-B21
NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only.	
NOTE: M.2 supports Software RAID only.	
NOTE: No HPE Flexible Smart Array supported.	
Hard Drive Kits	
HPE DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit	764630-B21
NOTE: Required when upgrading 8SFF config to 10SFF model. Not supported in the 4LFF model.	
HPE DL360 Gen9 NVMe 2 Solid State Drive Express Bay Enablement Kit	764628-B21
NOTE: This option provides support for up to 2NVMe drives in SFF only. This option cannot be used with the Universal Media Bay Kit.	
NOTE: The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) is required with the NVMe kit.	
NOTE: The PCIe card can only be used in slot1 of primary riser or slot3 of secondary optional FH riser.	
HPE DL360 Gen9 6 NVMe + 4 SAS/SATA Express Bay Enablement Kit	817676-B21
NOTE: Required when upgrading 8SFF config to 10SFF model. Not supported in the 4LFF model.	
NOTE: This option provides support for up to 6NVMe drives in SFF only. Adding NVMe drives replaces	support for Universal
Media Bay. N OTE: The DCIs could in this cook lement kit con only be nonvilated in clet1 of primery riser.	
NOTE: The PCIe card in this enablement kit can only be populated in slot1 of primary riser. NOTE: This option provides support for up to 2NVMe drives in SFF only. This option cannot be used wit	h the Universal Media
Bay Kit.	
NOTE: The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) is required with the NVMe kit.	
NOTE: The PCIe card can only be used in slot1 of primary riser or slot3 of secondary optional FH riser.	
25 Gigabit Ethernet adapters	
HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
NOTE: This option provides support for up to 6NVMe drives in SFF only. Adding NVMe drives replaces	
Media Bay.	
NOTE: The PCIe card in this enablement kit can only be populated in slot1 of primary riser.	

HPE	10 Gigabit Ethernet adapters	
Networking	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
	HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
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Core Options

HPE ProLiant DL360 Gen9 Server

	HPE Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HPE Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
	NOTE: The DL360 Gen9 ships with 4x1Gb Embedded.	
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapte	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and	cables for fiber-optic
	environments must be purchased separately. NOTE: Please see NIC QuickSpecs for Technical Specifications and additional information	
	https://www.hpe.com/us/en/product-catalog/servers/adapters.hits-12.html.	•
	1 Gigabit Ethernet adapters	
	HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
	HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
	NOTE: The DL360 Gen9 ships with 4x1Gb Embedded.	00
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapte	er.
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and	
	environments must be purchased separately.	
	NOTE: Please see NIC QuickSpecs for Technical Specifications and additional information	:
	https://www.hpe.com/us/en/product-catalog/servers/adapters.hits-12.html	
	HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
	FlexibleLOM Adapters	
	HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
	HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
	HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	HPE Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
	NOTE: The DL360 Gen9 ships with 4x1Gb Embedded.	
	NOTE: Only one FlexibleLOM can be added to the server as an upgradeable option.	
	HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
	HPE InfiniBand 10Gb	
	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	NOTE: The DL360 Gen9 ships with 4x1Gb Embedded.	
	NOTE: Only one FlexibleLOM can be added to the server as an upgradeable option.	
	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
HPE Infini	Band HPE InfiniBand 100Gb	
	HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter	872725-B21
	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	872725 B21
	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	872720-B21 825110-B21
	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825110-B21 825111-B21
	HPE 100Gb 1-port with Intel Ompi-Path	OZJIII-DZI

HPE 100Gb 1-port with Intel Omni-Path

QuickSpecs	HPE ProLiant DL36	0 Gen9 Server
Core Optio	ns	
	 HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel Omni-Path Architecture Adapter NOTE: For additional InfiniBand information: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440 HPE 100Gb 1-port with Intel Omni-Path HPE DL360 Gen9 Low Profile PCle Slot CPU2 Kit NOTE: This option kit requires a second CPU and will add an additional Low Profile PCle 3.0 slot. 	829335-B21 764642-B21
	HPE DL360 Gen9 2P Full Height PCIe Slot 2 GPU Enablement Kit	867249-B21
HPE I/O Expansion Options	NOTE: This enablement kit can support more than one Full Height/GPU card NOTE: This option kit requires a second CPU and will add an additional FH / ¾ Length PCIe 3.0 s NOTE: This kit includes GPU power cable and bracket; when this option kit is installed the Low riser is not useable. NOTE: It is not possible to convert a unit with the Full height kit back to dual Low Profile brackets	Profile PCIe3.0
	HPE DL360 Gen9 2P Full Height PCIe Slot 2 GPU Enablement Kit	867249-B21
NOTE: Flex SI HPE 800W Fl NOTE: Flex S connector that NOTE: Flex SI NOTE: Also a HPE 800W Fl NOTE: Flex SI	ex Slot Platinum Hot Plug Power Supply Kit lot Platinum power supplies support power efficiency of up to 94%. Includes a C-14 power inlet conne ex Slot Platinum Hot Plug Power Supply Kit Slot Platinum Plus power supplies support power efficiency of up to 94%. Includes a C-14 pow at can support HPE Power Discovery Services. In the Platinum power supplies support power efficiency of up to 96%. Vailable in -48VDC and 227VAC / 380VDC power inputs, 720480 and 720484 ex Slot -48VDC Hot Plug Power Supply Kit ot -48VDC power supplies support power efficiency of up to 94%.	720479-B21 er inlet (blue) 720480-B21
NOTE: Flex S NOTE: Flex S	ex Slot Titanium Hot Plug Power Supply Kit ot Titanium power supplies support power efficiency of up to 96%.Includes a C-14 power inlet conne lot Universal power supplies support power efficiency of up to 94% and support both 277VAC / 3	
NOTE: Flex Si Includes a C-1 NOTE: Maxim NOTE: All pow	Flex Slot Platinum Plus Hot Plug Power Supply Kit ot Platinum Plus power supplies support power efficiency of up to 94%. L4 power inlet (blue) connector that can support HPE Power Discovery Services. num of 2 Flex Slot power supplies per platform. wer supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching p	720620-B21
NOTE: Mixing features inclu server should NOTE: Prior t Power Adviso	you may receive an error message and/experience operational issues with your server. I different power supplies in the same server may limit or disable some power supply ding support for power redundancy. To ensure access to all available features, all power supplies w have the same output and efficiency ratings o selecting a power supply option, it is highly recommended that you review your server configurat r tool to determine the right size power supply. The HPE Power Advisor is located at: upe.com/info/hppoweradvisor.	
NOTE: Suppo content for al NOTE: Flex S	rt for HPE Power Discovery Services is included with the 1400W Flex Slot option. Power specification HPE Server power supplies can be found at: http://www.hpe.com/info/proliant/powersupply . ot Titanium power supplies support power efficiency of up to 96%. L4 power inlet connector.	s and technical

HPE ProLiant DL360 Gen9 Server

Core Options

Graphics NOTE: Flex Slot Universal power supplies support power efficiency of up to 94% and support both 277VAC / Accelerators 380VDC power inputs. NOTE: Flex Slot Universal power supplies support power efficiency of up to 94% and support both 277VAC / 380VDC power inputs. NOTE: Max of 2 cards can be ordered (Slots 1 and 3). NOTE: If 2 cards are installed, then 867249-B21 (HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit) is required. NOTE: Max of 2 cards can be ordered (Slots 1 and 3). NOTE: If 2 cards are installed, then 764642-B21 (HPE DL360 Gen9 Low Profile PCIe Slot CPU2 Kit) is required. HPE DL360 Gen9 GPU Cable for CPU1 Kit 766199-B21 NOTE: Max of 2 cards can be ordered (Slots 1 and 3). NOTE: If 2 cards are installed, then 867249-B21 (HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit) is required. NOTE: This kit is required if one HPE NVIDIA Quadro M4000 Graphics Accelerator card is installed (includes GPU cable and brackets). NOTE: The NVIDIA Quadro modules are supported only on 64-bit versions of Linux and Windows operating systems as well as on Virtual Machine client operating systems. The supported bare metal operating systems are RHEL6, RHEL7, SLES 11, SLES12 and Windows Server 2012 R2. HPE DL360 Gen9 GPU Cable for CPU1 Kit 766199-B21 HPE DL360 Gen9 High Performance Fan Kit 766201-B21 NOTE: This kit is required if one HPE NVIDIA Quadro M4000 Graphics Accelerator card is installed (includes GPU cable and brackets). NOTE: High Performance Fan Kit is required for some supported configurations (10SFF Chassis, 160W CPUs or higher, LRDIMMs, NVMe SSDs) and extended ambient operating temperatures above 35° C. Qualifications for extended ambient configurations are at: http://www.hpe.com/servers/ashrae.

NOTE: High performance fan kit increases power consumption. To reduce power consumption use high performance heat sinks (795235-B21).

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HPE ProLiant DL360 Gen9 Server

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 Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

HPE Converged	HPE OneView Advanced (with HPE iLO Advanced)		
Infrastructure	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A	
Management	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE	
Software	HPE OneView Advanced (without HPE iLO Advanced)		
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A	
	HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A	
	HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE	
HPE OneView Physical Media Kit LTU		E5Y37A	
	NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight additional charge.	Control without	
	NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed a	as part of HPE	
	OneView Advanced and provides multi-server OS and driver provisioning.	ataly or can be	
	NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separa downloaded at: <u>http://www.hpe.com/info/hpeoneview</u> .	arery, or can be	
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple license	es with a single	
	activation key. NOTE: Licenses ship without media. The HPE OneView Media Kit can be order	ered separately,	
	or can be downloaded at: http://www.hpe.com/info/hpeoneview.		
High Performance	HPE Cluster Management Utility		
Clusters	HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU	QL803B	
	HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU	BD476A	
	NOTE: These part numbers can be used to purchase one certificate for multiple licenses at a single activation key. Each license is for one node (server). Customer will receive a printed agreement and license entitlement certificate via physical shipment. The license entitlem must be redeemed online in order to obtain a license key. Customer also will receive a supp	end user license ment certificate port agreement.	
	HPE Insight Cluster Management Utility Media	BD477A	
	NOTE: For additional license kits please see the <u>HPE Insight Cluster Management</u> <u>Utility QuickSpecs</u> .		
HPE PCIe Workload	HPE Mixed Use PCIe Workload Accelerator		
Accelerator Options	HPE 1.6TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	877825-B21	
	HPE 6.4TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	877829-B21	
	HPE 3.2TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	877827-B21	
	HPE 750GB PCIe x4 Lanes Write Intensive HHHL 3yr Wty Digitally Signed Firmware Card	878038-B21	
	NOTE: Please see the HPE PCIe Workload Accelerators for ProLiant Servers		
	QuickSpecs for Technical Specifications and additional information.		
HPE Security	HPE 1U Security Bezel Kit	664918-B21	
	HPE Trusted Platform Module 2.0 Kit	745823-B21	
	NOTE: This option kit is supported on Gen9 servers with UEFI Mode not Legacy Mode. It is with HPE ProLiant Gen8 servers or earlier generation variants.	not compatible	

QuickSpecs

Additional Options

NOTE: HPE Gen9 servers purchased earlier may require latest BIOS update to be compatible. **NOTE:** HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

HPE Trusted Platform Module Option

488069-B21

HPE ProLiant DL360 Gen9 Server

NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline.

NOTE: ProLiant OS pre-installed units will come with the partition required for TPM deployment.

NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.

NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version. Compatible server platforms include Gen8 and Gen9 servers.

NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

HPE Storage Controllers

SAS Controllers

HPE Smart Array Controllers

HPE Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726897-B21
HPE DL360 Gen9 Smart Array P840 SAS Card with Cable Kit	766205-B21
NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HPE Smart Storage Battery, and ass	ociated cabling
required to attach it to a 10SFF configuration.	
HPE Smart Array P840ar/2GB FBWC 12Gb 2-port Internal SAS Controller	843199-B21
NOTE: The Smart Array P840ar SAS controller will require the P840ar Cable Kit 843234-B21.	
HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
NOTE: The P440/4GB will support up to 8 internal SAS/SATA drives and consume 1 PCIe slot. Also includes Storage Battery.	the HPE Smart
HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller	726736-B21
NOTE: The P440ar/2GB will support up to 8 internal SAS/SATA drives without using a PCIe slot.	
HPE Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21
HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
HPE DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations	726740-B21
NOTE: This controller is specific for the DL360 Gen9 with 2 GPGPUs installed. It has a unique heatsink that will all to fit.	ow the 2 nd GPU
HPE Smart Host Bus Adapters	
HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
HPE H240ar 12Gb 2-ports Int Smart Host Bus Adapter	726757-B21
NOTE: The H240ar will support up to 8 internal SAS/SATA drives without using a PCIe slot.	
HPE H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
NOTE: When ordering controllers, see HPE Cable Options below for required cable(s).	
HPE Cable Options	
HPE DL360 Gen9 Smart Array P840ar Cable Kit	843234-B21
HPE DL360 Gen9 SFF Embedded SATA Cable	766207-B21
NOTE: Needed only when attaching drive bays to the B140i controller in an 8 SFF model.	

UPE DI 760 Cano SEE Smart Array D//0/12/0 SAS Cables	775927-B21
HPE DL360 Gen9 SFF Smart Array P440/H240 SAS Cables	
NOTE: Required for use with the HPE Smart Array P440 (PCIe Controllers) 726821-B21 or 70 documentation details out cable placement with the HPE Smart Array P440 in PCIe 3.0 Slots 1 or backplane or the 2 SFF SAS/SATA option kit.	· · · · · · · · · · · · · · · · · · ·
HPE DL360 Gen9 SFF Smart Array P440ar/H240ar SAS Cable	766209-B21
HPE DL360 Gen9 LFF Smart Array P440/H240 SAS Cables	775929-B21
NOTE: Required for use with the HPE Smart Array P440 (PCIe Controllers) 726821-B21 or 70 documentation details out cable placement with the HPE Smart Array P440 in PCIe 3.0 Slots 1 or backplane.	and the second
HPE DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable	766211-B21
NOTE: Required for an upgrade from a B140i SATA controller to a HPE Smart HBA 240ar or HPE Sm Array P440ar.	hart
HPE DL360 Gen9 LFF Embedded SATA Cable	766213-B21
NOTE: Options noted "DL360 Gen9 SFF" are supported on the 8 SFF models only. Options noted "D supported on the 4 LFF models only.	L360 Gen9 LFF" are
Optional Software	
HPE Smart Array SR SmartCache (Single Key/Single Server) LTU	D7S26A
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU	D7S27A
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU	D7S27AAE
NOTE: HPE SmartCache is supported when one of the supported Smart Array Controllers is installed server.	in the
NOTE: HPE SmartCache comes standard (no licensing is required) if the HPE Smart Array P840 Cont installed in the server.	roller is

NOTE: For the complete range of tape drives, autoloaders, libraries and media see: <u>http://www.hpe.com/storage/storeever</u>. For hardware and software compatibility of HPE tape backup products <u>http://www.hpe.com/storage/BURAcompatibility</u>.

Rack-Mount Tape Solutions

Tape Drives

QuickSpecs

HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver MSL 1/8 G2 0-drive Tape Autoloader	R1R75A
HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HPE Tape Storage Systems	
HPE StoreEver MSL6480	
HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A
HPE StoreEver MSL6480 Scalable Base Module	QU625A
HPE StoreEver MSL2024 0-drive Tape Library	AK379A
NOTE: Please see the HPE StoreEver MSL6480 Tape Library QuickSpecs for Technical Specifications and information).	additional

HPE Disk Backup	HPE RDX Removable Disk Backup System	
	HPE RDX 4TB External Disk Backup System	Q2R33A
	HPE RDX 3TB Internal Disk Backup System	P9L71A
	HPE RDX 3TB External Disk Backup System	P9L72A
	HPE RDX 2TB External Disk Backup System	E7X53B

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Additional Options HPE RDX 1TB External Disk Backup System B7B69B C8S07B HPE RDX External Docking Station QW967A HPE D3700 Enclosure HPE D3600 Enclosure QW968A HPE StoreOnce 5100 48TB System BB915A HPE StoreOnce 3540 24TB System BB914A HPE StoreOnce 3520 12TB System BB922A HPE StoreOnce 3100 8TB System BB913A **NOTE:** For the complete range of RDX drives and media see: https://www.hpe.com/us/en/product-catalog/storage/disk-based-backup-systems.html For hardware and software compatibility of HPE disk backup products see: http://www.hpe.com/storage/spock. NOTE: Please see the HPE RDX Removable Disk Backup System QuickSpecs for additional part numbers, Technical Specifications, and additional information **HPE Storage** NOTE: The following is a list of all Fibre Channel Host Bus Adapters for Windows and Linux. For detailed Options compatibility information please see: https://www.hpe.com/us/en/product-catalog/servers/adapters.hits-12.html **Emulex Fibre Channel HBAs** HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter QOL11A HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter QOL12A HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter QOL13A HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter QOL14A HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter C8R39A HPE StoreFabric SN1100E 4-port 16Gb Fibre Channel Host Bus Adapter P9D99A HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter C8R38A HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter AJ763B HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter AJ762B **QLogic Fibre Channel HBAs** HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter P9M75A HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter P9M76A HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter P9D93A HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter P9D94A HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter QW971A HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter QW972A HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter P9D91A HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter AJ764A HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter AK344A **Converged Network Adapter** HPE StoreFabric CN1200E 10Gb Converged Network Adapter E7Y06A HPE StoreFabric CN1100R Dual Port Converged Network Adapter QW990A HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter N3U51A HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter N3U52A

HPE ProLiant DL360 Gen9 Server

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Additional Options

HPE Data Center	HPE Advanced Series Racks			
Racks	NOTE: Please see the HPE Advanced Series Racks QuickSpecs for information on additional racks options			
	and rack specifications. HPE Enterprise Series Racks			
	CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are requir Server installations. Please refer to your installation instructions for proper tools and numbe use for any installation.			
	HPE Power	HPE Basic Power Distribution Units (PDU)		
Distribution Units	NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs			
(PDUs)	for information on additional options and product specifications.			
	HPE Metered Power Distribution Units (PDU)			
	NOTE: Please see the <u>HPE Metered Power Distribution Units (PDU) QuickSpecs</u> for inform	ation on		
	additional options and product specifications.			
	HPE Intelligent Power Distribution Unit (PDU)			
	HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A		
	HPE 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A		
	HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A		
	HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU	AF523A		
	HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A		
	NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs			
	for information on additional options and product specifications. HPE Metered and Switched Power Distribution Units (PDU)			
	NOTE: Please see the <u>HPE Metered and Switched Power Distribution Units (PDU) QuickS</u>	ecs for		
	information on additional options and product specifications.			
	NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS) web page</u>	<u>)</u> .		
HPE Rack Mount	HPE Location Discovery Services			
Consoles, KVM	HPE Rack Mount Consoles			
Switches, and Keyboards	HPE LCD8500 1U US Rackmount Console Kit	AF630A		
	HPE LCD8500 1U US TAA Rackmount Console Kit	AF645A		
	HPE KVM Switches			
	HPE 0x1x8 G3 KVM Console Switch	AF651A		
	HPE 0x2x16 G3 KVM Console Switch	AF652A		
	HPE KVM Console USB Interface Adapter	AF628A		
	HPE KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A		
QuickSpecs	HPE ProLiant	DL360 Gen9 Server		
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Additional Optio	ns			
	HPE USB Remote Access Key for G3 KVM Console Switches	AF650A		
	HPE 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A		
	HPE 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A		
	HPE 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A		
	NOTE: To learn more, please visit the HPE KVM Switches web page.	, (1 0 2 2) (
	HPE USB Keyboard and Mouse			
	HPE USB US Keyboard/Mouse Kit	631341-B21		
	Rail Kits	001041 021		
	HPE 1U LFF Gen9 Easy Install Rail Kit	789388-B21		
	HPE 10 Small Form Factor Easy Install Rail Kit	734807-B21		
		734811-B21		
	HPE 1U Cable Management Arm for Rail Kit	663201-B21		
	HPE 1U Small Form Factor Ball Bearing Rail Kit	663202-B21		
	HPE 1U Large Form Factor Ball Bearing Rail Kit	003202-821		
	HPE Other Options			
	HPE Rack LED Light Kit HPE Kit LCD 1.83m Latch Display Port Cable	BW939A G7T29A		
		G7129A		
	HPE Rack/Tower UPS			
Power Systems	R7000 Uninterruptible Power System (UPS)			
(UPS)	HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A		
	R5000 Uninterruptible Power System (UPS)			
	HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A		
	NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs			
	for information on additional options and product specifications.			
	HPE UPS Options			
	HPE R/T3000 G4 Extended Runtime Module	J2R10A		
	HPE R/T2200 G4 Extended Runtime Module	J2R09A		
	HPE 2U Rack/Tower UPS Shipping Kit	L4Q11A		
	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) we	<u>b</u>		
	page.			
HPE USB and SD	HPE Enterprise Mainstream Flash Media Kits for Memory Cards			
Options	HPE 32GB microSD Flash Memory Card	700139-B21		
	HPE 8GB Dual microSD Flash USB Drive	741279-B21		
	HPE 8GB microSD Flash Memory Card	726116-B21		
	HPE 8GB microSD Flash USB Drive	737953-B21		
HPE Support	Installation & Start-up Services			
Services	HPE Install ProLiant DL3xx Service	U4506E		
	HPE Installation and Startup DL3xx Service	U4507E		
	Proactive Care	04307L		
	HPE 3 year Proactive Care 24x7 DL360 Gen9 w/IC Service	U5HM4E		
	HPE 3 year Proactive Care 24x7 DL300 Gen9 w/IC Service HPE 3 year Proactive Care 24x7 with DMR DL360 Gen9 w/IC Service	U5HM5E		
	THE D YEAR FROM THE CALE 24A7 WITH DMIN DEDUC GENY W/IC DEPUCE	UJHIYIJE		

HPE 3 year Proactive Care 24x7 with CDMR DL360 Gen9 w/IC Service

HPE 3 year Proactive Care Call to Repair DL360 Gen9 w/IC Service

U5HM6E U5HN3E

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HPE ProLiant DL360 Gen9 Server

Additional Options

HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL360 Gen9 w/IC Service	U5HN4E			
HPE 3 year Proactive Care Call to Repair with CDMR DL360 Gen9 w/IC Service	U5HN5E			
HPE 3 year Proactive Care 24x7 DL360 Gen9 Service	U7AM2E			
HPE 3 year Proactive Care 24x7 with DMR DL360 Gen9 Service	U7AM3E			
HPE 3 year Proactive Care 24x7 with CDMR DL360 Gen9 Service	U7AM4E			
HPE 3 year Proactive Care Call to Repair DL360 Gen9 Service	U7AM8E			
HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL360 Gen9 Service	U7AM9E			
HPE 3 year Proactive Care Call to Repair with CDMR DL360 Gen9 Service	U7AN0E			
NOTE: For a full listing of support services available for this server, please visit https://ssc.hpe.com/				

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Memory

Memory Population guidelines



General Memory Population Rules and Guidelines

- . White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- . A minimum of one DIMM is required per server.
- . Install DIMMs only if the corresponding processor is installed.
- . When two processors are installed, balance the DIMMs across the two processors
- . Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel. Heaviest load (DIMM with most ranks) within a channel goes furthest from the processor.
- . Do not mix RDIMMs or LRDIMMs.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed
- . The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors
- . HPE memory from previous generation servers is not compatible with the DL360 Gen9 Server.
- . For memory population rules and additional memory guidelines, please see the DL360 Gen9 user guide at http://www.hpe.com/services.
- . There are four (4) Memory channels per processor; eight (8) channels per 2 processor server.
- . There are three (3) DIMM slots for each memory channel; twenty four (24) total slots for 2 processor server.

QuickSpecs

Memory

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

Memory Bandwidth a	nd Capacity									
[DIMM Type]		R	Registered DIMMs (RDIMMs)				Load Reduced (LRDIMMs)			
HPE SKU P/N	805347- B21	805349- B21	836220- B21	P00423- B21	805351- B21	805353- B21	805358- B21	809208-B21		
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Octal Rank		
DIMM Capacity	8GB	16GB	16GB	16GB	32GB	32GB	64GB	128GB		
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V		
DRAM Depth [bit]	1G	2G	1G	1G	2G	2G	2G	2G		
DRAM Width [bit]	x8	x4	x4	x8	x4	x4	x4	x4		
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb	8Gb	8Gb	8Gb		
CAS Latency	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	20-18-18		
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400	2400	2400	2400		
SLOTS THAT CAN BE	POPULATE)			•					
24 slot servers	24	24	24	24	24	24	24	24		
MAXIMUM CAPACITY	(GB)									
	192	384	384	384	768	768	1536	3072		
POPULATED DIMM S	PEED (MT/s)					l				
1 DIMM Per Channel	2400	2400	2400	2400	2400	2400	2400	2400		
2 DIMM Per Channel	2133	2133	2400	2400	2400	2400	2400	2400		
3 DIMM Per Channel	1866	1866	1866	1866	1866	2400	2400	2400		

NOTE: Mixing the 128GB LRDIMM with other capacities is not supported.

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

Memory Bandwidth and Capacity								
[DIMM Type]			Load Reduced (LRDIMMs)					
HPE SKU P/N	726717-B21	726718-B21	726719-B21	728629-B21	726724-B21			
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Quad Rank			
DIMM Capacity	4GB	8GB	16GB	32GB	64GB			
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V			
DRAM Depth [bit]	512M	1G	1G	1G	2G			
DRAM Width [bit]	x8	x4	x4	x4	x4			
DRAM Density	4Gb	4Gb	4Gb	4Gb	8Gb			

Memory

CAS Latency	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133
SLOTS THAT CAN B	E POPULATED				
24 slot servers	24	24	24	24	24
MAXIMUM CAPACIT	'Y (GB)				
	96	192	384	768	1536
POPULATED DIMM	SPEED (MT/s)	•	•	•	•
1 DIMM Per Channel	2133	2133	2133	2133	2133
2 DIMM Per Channel	2133	2133	2133	2133	2133
3 DIMM Per Channel	1600	1600	1600	1600	1866

DIMM slot and configuration diagram

DIMM slot and configuration diagrams Basic memory slot & population diagram

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

		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 3	1	С	1	С	Chnl3			
	2	G	2	G				
	3	К	3	К				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 4	4	D	4	D	Chnl 4			
	5	Н	5	Н				
	6	L	6	L				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 2	7	J	7	J	Chnl 2			
	8	F	8	F				
	9	В	9	В				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 1	10		10		Chnl 1			
	11	E	11	E				
	12	A	12	A				

QuickSpecs

Memory

Memory Speed by P Processor Mod

Processor Models	Supported Memory Speeds
E5-2603v3, E5-2609v3	1600MT/s
E5-2623v3, E5-2620v3, E5-2630v3, E5-2640v3, E5-2630Lv3	1866MT/s
E5-2637v3, E5-2650v3, E5-2660v3, E5-2670v3, E5-2680v3, E5-2690v3, E5-2683v3, E5-2695v3, E5-2697v3, E5-2643v3, E5-2667v3, E5- 2687Wv3, E5-2698v3, E5-2650Lv3, E5-2699v3	2133MT/s
E5-2603v4, E5-2609v4	1866MT/s
E5-2630Lv4, E5-2620v4, E5-2623v4, E5-2640v4, E5-2630v4	2133MT/s
E5-2650Lv4, E5-2637v4, E5-2643v4, E5-2650v4, E5-2660v4, E5-2697Av4, E5-2680v4, E5- 2690v4, E5-2687Wv4, E5-2667v4, E5-2683v4, E5-2695v4, E5-2697v4, E5-2698v4, E5-2699v4, E5-2699Av4	2400MT/s

laximum Memory apacity	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
Pre-configured lodels)	E5-2670v3	64GB(4x16GB)	704GB (20x32GB, 4x16GB)	1536GB (24x64GB)
	E5-2660v4	64GB(4x16GB)	704GB (20x32GB, 4x16GB)	3072GB (24x128GB)
	E5-2650v4	32GB (2x16GB)	736GB (22x32GB, 2x16GB)	3072GB (24x128GB)
	E5-2650v3	32GB (2x16GB)	736GB (22x32GB, 2x16GB)	1536GB (24x64GB)
	E5-2640v4, E5-2630v4	16GB (1x16GB)	752GB (23x32GB, 1x16GB)	3072GB (24x128GB)
	E5-2630v3	16GB (1x16GB)	752GB (23x32GB, 1x16GB)	1536GB(24x64GB)
	E5-2603v4	8GB (1x8GB)	744GB (23x32GB, 1x8GB)	3072GB (24x128GB)
	E5-2603v3	8GB (1x8GB)	744GB (23x32GB, 1x8GB)	1536GB (24x64GB)

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Memory

DDR4 memory options part number decoder

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

- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



QuickSpecs

Storage



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

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



1-10 10 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays

QuickSpecs

Technical Specifications

System Unit	Dimensions	8 SFF and 10 SFF 1.7 x	17.1 x 27.5 inches (4.32 x 43.47 x 69.85 cm)				
		4 LFF - 1.7 x 17.1 x 29.5 inches (4.32 x 43.46 x 75.0 cm)					
	Weight	Maximum:	8 SFF Chassis 33.3 lb. (15.31 kg)				
	(approximate)	(all hard drives, power supply, and processor	NOTE: Includes 2 SFF Option for a total of 10 SFF HDD.				
		installed)	4 LFF Chassis 37 lb. (16.78kg)				
		Minimum:	8SFF Chassis 27 lb. (12.25 kg)				
		(one hard drive, power supply, and processor installed)	4 LFF Chassis 30.36 lb. (13.77 kg)				
	Input Requirements	Rated Line Voltage	100 to 120 VAC				
	(per power supply)		200 to 240 VAC				
	BTU Rating	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only				
			For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only				
	Power Supply Output (per power supply)	Rated Steady-State Power	For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC)				
			For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only				
			For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only				
		Maximum Peak Power	For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only				
			For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only				
			For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only				

Qu	ick	Sp	ecs
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Technical Specifications

HPE ProLiant	DL360	Gen9	Server
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System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. NOTE: System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).
	Extended Ambient Operating Support	For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hpe.com/servers/ashrae For approved hardware configurations, the
		supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hpe.com/servers/ashrae
		in the extended ambient operating range or with a fan fault.
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
(non-condensing)	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3050 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).

QuickSpecs		HPE ProLiant DL360 Gen9 Server
Technical Specifications		
Acoustic Noise	average bystan the product is o measured in a	eclared A-Weighted sound power levels (LWAd) and declared der position A-Weighted sound pressure levels (LpAm) when perating in a 23°C ambient environment. Noise emissions were accordance with ISO 7779 (ECMA 74) and declared in n ISO 9296 (ECMA 109).
	Idle	
	LWAd	(1P non-redundant) 4.6 A Average Bystander
		(2P redundant) 5.5 A Average Bystander
	l nAm	(1P pop-redundant) 20 dBA

	LpAm	(1P non-redundant) 29 dBA		
		(2P redundant) 37 dBA		
	Operating			
	LWAd	(1P non-redundant) 4.6 A Average Bystander		
		(2P redundant) 6.2 C Average Bystander		
	LpAm	(1P non-redundant) 30 dBA		
		(2P redundant) 46 dBA		
	on tested included two Intel E5-2630 v3, 2.3GHz B SAS HDD, five standard hot plug fans, one 8GB Hz, one 500W power supply.			
	NOTE: 2P Configuration tested included two Intel E5-2650 v3, 2.6GHz processors, one 500GB SAS HDD, seven standard hot plug fans, two 16GB DDR4 RDIMM's 2133MHz, one 500W power supply, P440ar HDD controller PCI card with 2GB cache.			
	NOTE: Values are subject to change without notification and are for reference only.			
	NOTE: Performance of system, options, and ancillary equipment will vary depending on the system configuration.			
	NOTE: Levels presented do not account for non-Hewlett Packard Enterprise installed hardware.			
Emissions Classification	FCC Rating	Class A		
(EMC)	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1		
	NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.			

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Technical Specifications

HPE Dynamic Smart Array B140i Controller				
Number of PCI links	Four			
PCI link rate	4Gb/s			
Storage protocol support	SATA			
SAS/SATA peak data transfer rate	6Gb/s			
Number of SAS/SATA links	10 links			
SAS/SATA connectivity	2x4 connectors; 2x1 connectors			
Expander support	No			
Drives supported (max)	Up to 10 Internal Drives			
RAID support	0, 1, 10, 5 SATA			
Software management	HPE SSA, SMH, SIM			
Warranty	Server warranty			
HPE Secure Encryption license	Not Supported			
HPE SmartCache License	Not Supported			
HPE Smart Storage Administrator	Supported			

HPE Ethernet 1Gb	Network Interface	10Base-T/100Base-TX/1000Base-TX
4-port 331i Adapter	Compatibility	IEEE 802.3 10Base-T
		IEEE 802.3ab 1000Base-T
		IEEE 802.3u 100Base-TX
	Data Transfer Method	PCI Express, two lanes (x2)
	Controller	BCM5719
Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s per port, 40 Mb/s combined
	10Base-T (Full-Duplex)	20 Mb/s per port, 80 Mb/s combined
	100Base-TX (Half-Duplex)	100 Mb/s per port, 400 Mb/s combined
	100Base-TX (Full-Duplex)	200 Mb/s per port, 800 Mb/s combined
	1000Base-TX (Half and Full-Duplex)	1000 Mb/s per port, 4000 Mb/s combined
	1000Base-TX (Full-Duplex)	2000 Mb/s per port, 8000 Mb/s combined
Connector	Four RJ-45	
Cable Support	10 Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)
	10/100/1000 Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)

Environment-friendly Products and Approach -End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner. http://www.hpe.com/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

HPE ProLiant DL360 Gen9 Server

Summary of Changes

Date	Version History	Action	Description of Change
01-Jul-2019	Version 48	Changed	The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information
18-Apr-2019	Version 47	Changed	Obsolete SKUs were removed. SKUs were updated.
02-Apr-2019	Version 46	Changed	Obsolete SKUs were removed and new SKUs were added in Core Options section
04-Feb-2019	Version 45	Added	SKUs added R1R75A , P09163-B21 and P09153-B21
03-Dec-2018	Version 44	Changed	Overview, Standard Features, Core Options and Storage sections were Updated and Obsolete SKUs were removed
01-Oct-2018	Version 43	Changed	Standard Features, Core Options and Additional Options sections were updated. SKU descriptions were updated. Obsolete SKUs were removed.
13-Aug-2018	Version 42	Added	Added new memory option.
5		Changed	Memory section was updated.
06-Aug-2018	Version 41	Added	Added new Solid State Drives offering.
		Changed	Core Options and Additional Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
04-Jun-2018 Vers	Version 40	Added	Added new Solid State Drives offering to the HPE Drives section.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
02-Apr-2018 Version 39	Version 39	Changed	SKUs description were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
05-Mar-2018	Version 38	Removed	Obsolete SKUs were removed from the QuickSpecs.
04-Dec-2017	Version 37	Added	Added new Hard Drives offering.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Oct-2017	Version 36	Added	Note was added under HPE 1U Cable Management Arm for Easy Install Rail Kit.
25-Sep-2017	Version 35	Added	Added new Solid State Drives offering. Added new PCIe Accelerator options.
		Changed	Core Options and Additional Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
07-Aug-2017	Version 34	Added	Added new Solid State Drives offering to the HPE Drives section.
11-Jul-2017	Version 33	Added	Added new GPU option.
		Changed	Operating Systems and Virtualization Software Support for ProLiant Servers section was revised.
20-Jun-2017	Version 32	Changed	Expansion Slots section was revised.
05-Jun-2017	Version 31	Added	Added new Solid State Drives offering to the HPE Drives section.
		Changed	HPE InfiniBand section was revised.
08-May-2017	Version 30	Added	New HPE Computation and Graphics Accelerators options were added.
		Changed	Processor and Power Supply sections under Standard Features were revised. HPE Power Supplies section was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
03-Apr-2017	Version 29	Changed	Internal View image call outs were revised.
27-Mar-2017	Version 28	Added	Added new Hard Drives and new HPE Networking option.
		Changed	HPE I/O Expansion Options section was revised.

HPE ProLiant DL360 Gen9 Server

Summary of Changes

17-Feb-2017	Version 27	Changed	HPE Memory section under Core Options was revised.
13-Feb-2017	Version 26	Added	Added new HDD and SSD offering to the HPE Drives section.
		Changed	Graphics and HPE StoreVirtual VSA were revised.
28-Nov-2016 Ve	Version 25	Added	Added new LFF Hard Drives, new Fiber Channel HBAs up to 32Gb, and new E5-2699A v4 processor.
		Changed	Processors, Memory, Maximum Internal Storage, HPE Drives, and HPE Computation and Graphics Accelerators were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
07-Oct-2016	Version 24	Changed	Notes under the HPE Computation and Graphics Accelerators section were revised.
26-Sep-2016	Version 23	Added	Added new SATA LFF hard drives offering. New NVIDIA Tesla M4 4GB Module was added.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
19-Aug-2016	Version 22	Changed	Smart Buy models section was revised for the NA version only.
15-Aug-2016	Version 21	Added	Added new Networking, Storage, and Unique options.
5		Changed	Overview, Memory, Standard Features section, Pre-configured Models, Configuration Information - Factory Integrated Models, HPE Drives InfiniBand, and Computation and Graphics Accelerators were revised.
8-Jul-2016	Version 20	Changed	Smart Buy models section was revised for the NA version only.
6-Jun-2016	Version 19	Added	Added new HPE 25GB Ethernet Adapters, HPE 100GB OPA Adapter, HPE 128GB DIMM (8Rx4 PC4-2400T-L) Kit, HPE NVIDIA Quadro M2000 GPL Module, HPE StoreFabric 84Q 4-port 8Gb FC HBA, and new 2TB, 4TB, and 8TB LFF Drives.
		Changed	Memory, Maximum Internal Storage, Pre-configured Models, HPE Unique Options, HPE Memory, HPE Drives, HPE InfiniBand, HPE Power Supplies HPE Computation and Graphics Accelerators, HPE Insight Software, HPE PCIe Workload Accelerator Options, HPE Storage Controllers, HPE Disk Backup, and HPE Storage Options were updated.
22-Apr-2016	Version 18	Changed	Smart Buy model 800079-S01 was revised.
15-Apr-2016	Version 17	Changed	Smart Buy models section was revised for the NA version only.
05-Apr-2016	Version 16	Added	Added new NVIDIA Quadro M4000 GPU module.
		Changed	What's New section was updated. Standard Features/Memory and HPE Memory sections were revised.
31-Mar-2016	Version 15	Added	Added Intel E5-2600v4 Processors support, new HPE Smart Memory DDR4 2400MHz, new HPE Persistent Memory, new HPE Flexible Smart Array P840ar controller, new NVIDIA Quadro GPU options, and new TPM 2.0 module.
		Changed	Embedded Management, Security, Warranty, Service and Support, Pre- configured Models, Memory, and Storage Options sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
26-Feb-2016	Version 14	Changed	Note for front view image – callout #9 was updated.
16-Feb-2016	Version 13	Added	New HDD offering was added to HPE Drives.
		Changed	Maximum Internal Storage, HPE Power Supplies, HPE Computation and Graphics Accelerators, HPE Disk Backup, HPE Data Center Racks, and HPE Power Distribution Units (PDUs) were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Dec-2015	Version 12	Added	Smart Buy models were added to the NA version.
01-Dec-2015	Version 11	Added	New HDD offering was added to HPE Drives. New options added to HPE PCIe Workload Accelerator Options, HPE Tape Backup, and HPE Disk Storage Systems.

Summary of Changes

		Changed	On System Management Chipset, Embedded Management, and Server utilities were revised. Product images were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Sep-2015	Version 10	Added	Added support for PCIe Solid State Drives, additional 6Gb SATA SSD drives, support for new Network adapters, and support for new PCIe workload accelerators. Added new HPE OneView management software.
		Changed	Internal Storage Devices, Maximum Internal Storage, and HPE Drives were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	Version 9	Added	Added new Solid State Drives offering.
		Changed	What's New changed to: Support for PCIe Solid State Drives Support for additional 6Gb SATA SSD drives Maximum Internal Storage and HPE Unique Options were revised.
01-Jun-2015	Version 8	Added	New DVD Universal Media Bay option was added. New larger capacity HDDs (up to 8TB LFF), Max capacity 32TB were added. New higher capacity memory (64GB), Max capacity 1.5TB was added. New Networking options were added. Optional Software was added to HPE Storage Controllers.
		Changed	HPE Disk Backup and HPE Uninterruptible Power Systems (UPS) were updated.
30-Mar-2015	Version 7	Added	New Hard Drives offering. Added new HPE PCIe Workload Accelerator Options. Optional Software added to HPE Storage Controllers. Added new HPE Pointnext operational services.
		Changed	What's New, Core Options, and Additional Options were revised.
		Removed	Removed obsolete HPE Pointnext operational services.
17-Feb-2015	Version 6	Added	Added Smart Buy Models to the NA version only.
09-Feb-2015	Version 5	Added	Added What's New section. Added new HPE Drives, Pre-configured Models, and G4 UPS models.
		Changed	HPE Processors, HPE Disk Backup, HPE Tape Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, HPE Uninterruptible Power Systems (UPS), and HPE Computation and Graphics Accelerators sections were revised.
01-Dec-2014	Version 4	Changed	Changes were made throughout the QuickSpecs.
13-Oct-2014	Version 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section. HPE PCIe Workload Accelerator Options, HPE USB and SD options were added to the Additional Options section. Smart Buys section was added to NA version.
		Changed	Call outs description for images, Standard Features, Optional Features, Pre- Configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.
23-Sep-2014	Version 2	Changed	Changes were made throughout the QuickSpecs.
09-Sep-2014	Version 1	New	New QuickSpecs.

QuickSpecs

HPE ProLiant DL360 Gen9 Server

Summary of Changes





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

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