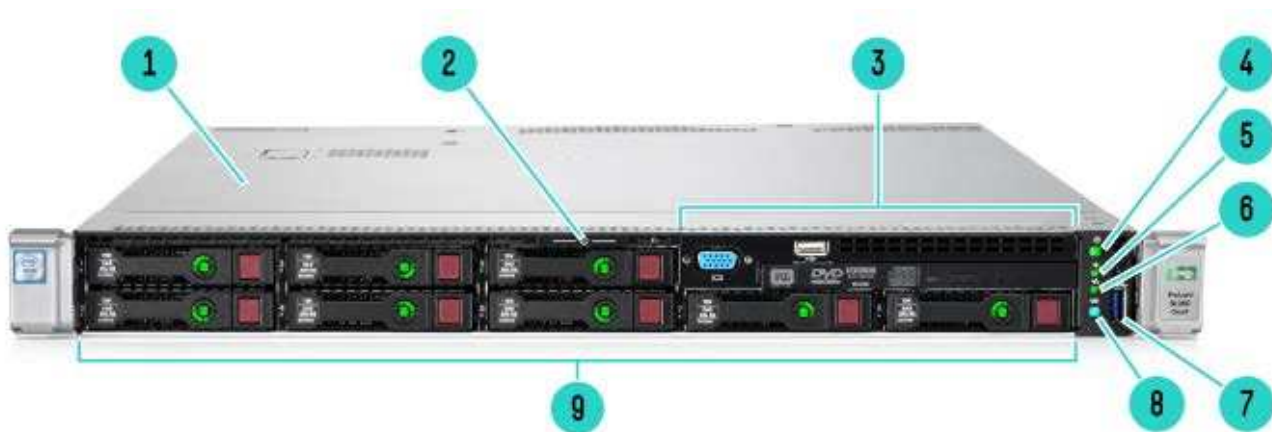


### Overview

The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information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



Front View

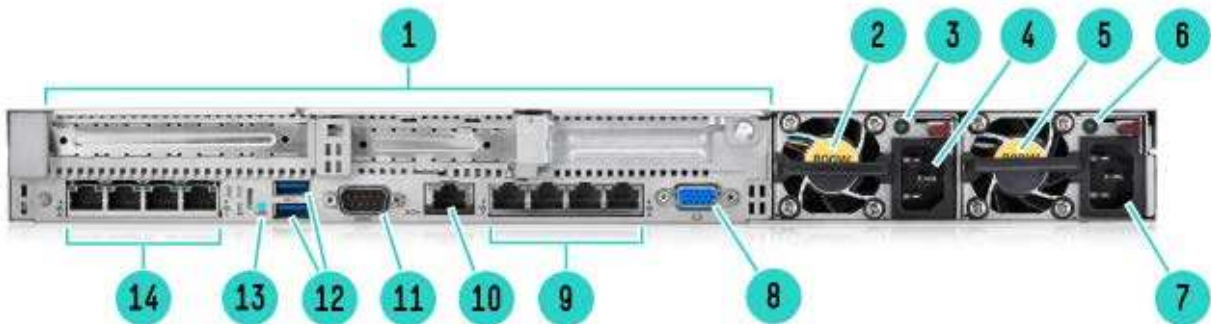
- |  |  |
|--|--|
| 1. Access Panel  | 6. NIC Status LED                            |
| 2. Serial Label Pull Tab                               | 7. USB 3.0 Connector                         |
| 3. HPE Universal Media Bay or NVMe <sup>3</sup>        | 8. Unit Identification Button & LED          |
| 4. Power On/Standby button and system power LED button | 9. SAS/SATA/SSD/NVMe Drive Bays <sup>9</sup> |
| 5. Health LED  |  |

<sup>3</sup>**NOTE:** Shown w/ VGA, USB 2.0 and DVD-ROM or DVD-RW option. Alternative options: NVMe HDD Kits, 2 SFF HDDs or VGA and USB 2.0.

<sup>9</sup>**NOTE:** 8SFF Model shown can be configured:

- 8 SAS/SATA Drives or 10 SAS/SATA drives
- 4 SAS/SATA (Drive 1-4) + 6 NVMe (Drive 5-10)
- 8 SAS/SATA + Universal Media Bay
- 4 LFF Models are also available.

## Overview



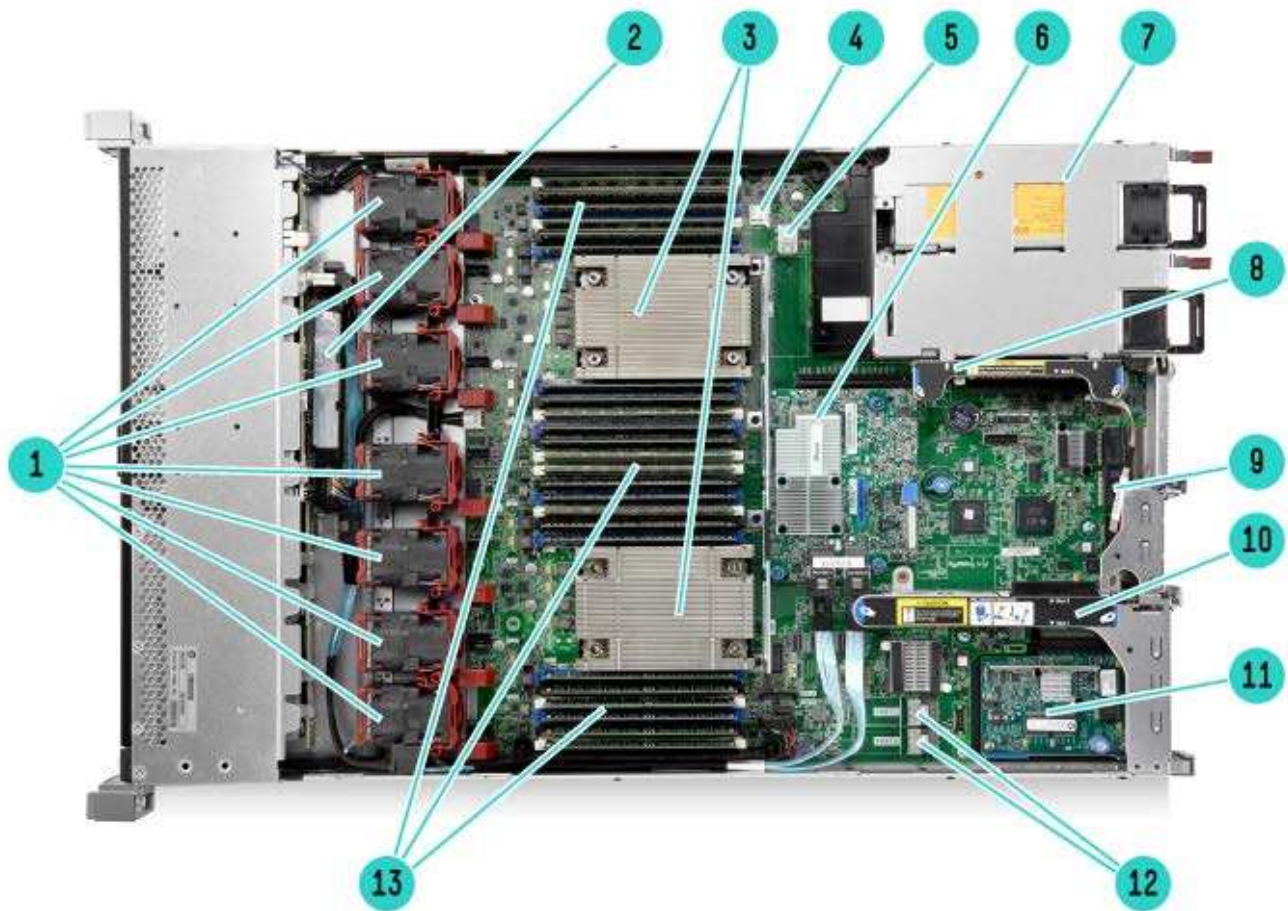
### Rear View

- |   |                                      |
|---|--------------------------------------|
| 1. PCIe 3.0 Slots 1-3 <sup>1</sup>      | 8. Video Connector                   |
| 2. HPE Flexible Slot Power Supply Bay 2 | 9. Embedded 4x1GbE Network Adapter   |
| 3. Power Supply 2 Status LED            | 10. Dedicated iLO 4 connector        |
| 4. Power Supply 2 C13 Connection        | 11. Serial Port Connector (Optional) |
| 5. HPE Flexible Slot Power Supply Bay 1 | 12. USB 3.0 Connectors (2)           |
| 6. Power Supply 1 Status LED            | 13. Unit Identification LED          |
| 7. Power Supply 1 C13 Connection        | 14. FlexibleLOM bay (Optional)       |

<sup>1</sup> **NOTE:** Slot 1 and 2 Riser Ships Standard, Slot 3 Optional one FH/  $\frac{3}{4}$  length and two Low Profile slots available (shown) or two FH/  $\frac{3}{4}$  length slots.

<sup>14</sup> **NOTE:** Shown: 4x1GbE.

## Overview



### Internal View

- |   |   |
|---|---|
| 1. 5 Standard Fans Ship for 1P and 7 Standard Fans Ship for 2P <sup>1</sup> | 8. Secondary PCIe 3.0 riser for PCIe slot 3 (requires CPU 2)              |
| 2. HPE Smart Storage Battery (Optional)                                     | 9. Embedded 4x1Gbe NIC  |
| 3. 2 Processors with HPE Smart Socket Guide                                 | 10. Primary PCIe 3.0 riser for PCIe slots 1 & 2                           |
| 4. MicroSD card slot <sup>4</sup>   | 11. FlexibleLOM Bay (Optional)  |
| 5. Dual Internal USB 3.0 connector  | 12. Embedded SATA Controller ports  |
| 6. HPE Flexible Smart Array or Smart HBA (Optional) <sup>6</sup>            | 13. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor) |

7. 2 HPE Flexible Slot Power supplies<sup>7</sup>

<sup>1</sup> **NOTE:** High Performance Fans also available as an option

<sup>4</sup> **NOTE:** Optional Dual Micro-SD option.

<sup>6</sup> **NOTE:** H240ar shown and P440ar available.

<sup>7</sup> **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

## Standard Features

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

**Processor** Up to two of the following depending on model

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

## Standard Features

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

**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.

- Processors consuming over 120w ships with a High Performance heat sink as standard. except the Intel Xeon E5-2690v4
- A High Performance heat sink can be added to help reduce power consumption (795235-B21).

**Chipset** Intel® C610 Series Chipset  
Intel® E5-2600v3 Processor Family  
Intel® E5-2600v4 Processor Family

**NOTE:** For more information regarding Intel® chipsets, please see the following URL: <http://www.intel.com/products/server/chipsets/>

**On System Management Chipset** HPE iLO (Firmware HPE iLO4 2.0 or later) 4GB NAND  
**NOTE:** 1GB USB user space configurable via UEFI and accessible via iLO. Read and learn more in the [iLO QuickSpecs](#).

**Memory** Type:  
One of the following depending on model HPE SmartMemory  
DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

DIMM Slots Available	24	(12 DIMM slots per processor, 4 channels per processor, 3 DIMMs per channel)
Maximum Capacity (LRDIMM)	3TB	(24 x 128GB LRDIMM)
Maximum Capacity (RDIMM)	768GB	(24 x 32GB RDIMM)
Maximum Capacity (NVDIMM)	128GB	(16 x 8GB NVDIMM)*

NVDIMM support only with the E5-2600v4 processors, and RDIMMs only

- 128GB DIMMS cannot be mixed with any other size DIMMs.
- \*NVDIMMs cannot be used with LRDIMMs.
- \*A maximum of 16 NVDIMMs can be supported.
- NVDIMMs are only supported on factory configured servers with E5-2600 v4 processors, not supported on servers upgraded from E5-2600 v3 to E5-2600 v4 processors.

**Memory Protection** Advanced ECC Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip.  
Online Spare Memory online spare mode detects a rank that is degrading and switches operation to the spare rank.

## Standard Features

### Expansion Slots

Primary Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 3.0	X16	X16	7	Full-height, ¾ length (up to 9.5") Slot	Proc 1
	2	PCIe 3.0	X8	X8	10	Low profile	Proc 1

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

Secondary Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	3	PCIe 3.0	X16	X16	16	Full-height, full-length slot Low profile	Proc 2
	3	PCIe 3.0	X16	X16	20	Full-height, ¾ length (up to 9.5") slot	Proc 2*

**NOTE:** \*If secondary FH kit (867249-B21) is installed, then primary PCIe Slot 2 cannot be used. Only 2 FH slots are supported max.

### Storage Controller

One of the following depending on model

Entry Models	HPE Dynamic Smart Array B140i Controller HPE H240ar Smart Host Bus Adapter
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**NOTE:** For E5-2600v3 Entry models, the embedded B140i will operate in UEFI mode only.

- For legacy mode support an additional controller will be needed.
- For CTO orders please also select HPE Legacy FIO Mode Setting (758959-B22).

**NOTE:** The embedded B140i defaults to AHCI off the chipset. HPE Dynamic Smart Array Controller needs to be enabled on the SATA only models if needed.

Base Models	HPE Flexible Smart Array P440ar/2GB
Performance Models	HPE Flexible Smart Array P440ar/2GB

### Internal Storage Devices

One of the following depending on model

Optical Drive	8 SFF with optional Universal Media bay Option Kit 764632-B21 VGA, SFF DVD-RW USB Kit Option Kit 818213-B21 VGA, SFF DVD-ROM USB Kit
Hard Drives	4 LFF Option Kit 726536-B21 - HPE 9.5mm SATA DVD-ROM Jb Gen9 Kit Option Kit 726537-B21 - HPE 9.5mm SATA DVD-RW Jb Gen9 Kit
Hard Drive Bays	None ship standard 8 SFF with optional Universal Media Bay or NVMe drive support 4 LFF 10 SFF; 8 SFF Model with optional 2 SFF SAS/SATA kit: 764630-B21 <b>NOTE:</b> HPE ProLiant DL360 Servers offer both SFF and LFF versions. <b>NOTE:</b> Pre-configured models come populated with some hard drive blanks. To order additional (single) hard drive blanks, use either: HPE SFF Hard Drive Blank Kit (666987-B21) or HPE LFF Hard Drive Blank Kit (666986-B21). <b>NOTE:</b> The 2SFF kit comes with cable for internal B140i SATA controller. For SAS an alternate storage controller and cable kit are required.



Standard Features

Maximum Internal Storage		CAPACITY	CONFIGURATION
	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 PCIe 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 (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the [ProLiant Power Cables](#) web page.

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

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

System Fans

One of the following depending on model

1P model

**Non-redundant**

N/A

**Redundant**

5 fans

2P model

**Non-redundant**

N/A

**Redundant**

7 fans

**NOTE:** The second processor option kit contains two fans.

**NOTE:** High Performance Fan Kit, 766201-B21, is available to meet some extended ambient operating temperatures above 35° C. Qualifications for extended ambient configurations are detailed at: <http://www.hpe.com/servers/ashrae>

## Standard Features

<b>Interfaces</b>	Serial	1
	<b>NOTE:</b> Serial Cable Option Kit: 764646-B21.	
	Video	1 rear (Standard) 1 front (Optional)
	<b>NOTE:</b> Front VGA options available for 8SFF and 4LFF models. See Core Options section of this QuickSpecs for more details.	
	Network RJ-45 (Ethernet)	Embedded 4x1GBE + FlexibleLOM bay
	<b>NOTE:</b> Both the SFF and LFF chassis have an embedded 4x1GbE NIC and FlexibleLOM bay. See HPE Networking section below for more details.	
	HPE iLO Remote Management Network Port	1 Gb Dedicated
	SD Connector	1 micro SD Internal
	<b>NOTE:</b> The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.	
	USB 3.0	5 total: 2 rear, 1 front, 2 internal

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<b>Operating Systems and Virtualization Software Support for ProLiant Servers</b>	<b><u>Microsoft Windows Server</u></b>
	<b><u>Red Hat Enterprise Linux (RHEL)</u></b>
	<b><u>SUSE Linux Enterprise Server (SLES)</u></b>
	<b><u>Canonical Ubuntu</u></b>
	<b><u>Oracle Linux</u></b>
	<b><u>CentOS</u></b>
	<b><u>VMware</u></b>
	<b><u>Citrix XenServer</u></b>
	<b><u>Oracle Solaris</u></b>
	<b><u>Wind River Linux</u></b>

**NOTE:** For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from Hewlett Packard Enterprise, please visit our OS Support Site at: <http://www.hpe.com/info/ossupport> and our [driver download page](#).

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<b>Upgradeability</b>	Upgradeable to 2 processors (44 Cores)
	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
	<b>NOTE:</b> 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



## Standard Features

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

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### Industry Standard Compliance

ACPI 2.0b Compliant  
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 Ambient Support up to 45C for data center infrastructures designed for better energy efficiency.

For additional technical thermal details regarding ambient temperatures, humidity and features support please visit <http://www.hpe.com/servers/ashrae>.

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### Graphics

Integrated Matrox G200 video standard with 16MB of Video RAM

- 1280 x 1024 (32 bpp)
- 1920 x 1200 (16 bpp)

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### 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 <http://www.hpe.com/servers/uefi>.

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

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

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

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

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### Form Factor

One of the following depending on model

1U Rack form factor  
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.

## Standard Features

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<b>Embedded Management</b>	<b>HPE Integrated Lights-Out (HPE iLO)</b>	Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at <a href="http://www.hpe.com/info/ilo">http://www.hpe.com/info/ilo</a> .
	<b>UEFI</b>	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <a href="http://www.hpe.com/servers/uefi">http://www.hpe.com/servers/uefi</a> .
	<b>RESTful API</b>	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 <a href="http://www.hpe.com/info/restfulapi">http://www.hpe.com/info/restfulapi</a> .
	<b>Intelligent Provisioning</b>	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at <a href="http://www.hpe.com/servers/intelligentprovisioning">http://www.hpe.com/servers/intelligentprovisioning</a> .
	<b>Embedded Remote Support</b>	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 <a href="http://www.hpe.com/info/insightonline/explore">http://www.hpe.com/info/insightonline/explore</a> .
<b>Server utilities</b>	<b>Smart Update</b>	Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at <a href="http://www.hpe.com/servers/smartupdatemanager">http://www.hpe.com/servers/smartupdatemanager</a> .
	<b>HPE Systems Insight Manager (HPE SIM)</b>	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 <a href="http://www.hpe.com/servers/hpsim">http://www.hpe.com/servers/hpsim</a> .
	<b>Scripting Kit and Windows PowerShell</b>	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 <a href="http://www.hpe.com/servers/proliant/stk">http://www.hpe.com/servers/proliant/stk</a> or <a href="http://www.hpe.com/servers/powershell">http://www.hpe.com/servers/powershell</a> .
	<b>RESTful Interface Tool</b>	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 <a href="http://www.hpe.com/info/resttool">http://www.hpe.com/info/resttool</a> .
	<b>HPE iLO Mobile Application</b>	Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: <a href="http://www.hpe.com/info/ilo/mobileapp">http://www.hpe.com/info/ilo/mobileapp</a> .
	<b>HPE Insight Online</b>	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 <a href="https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c03355402&amp;docLocale=en_US">https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c03355402&amp;docLocale=en_US</a>

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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

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### 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/>**

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## 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 <http://www.hpe.com/info/cmu>.

**Rack and Power Infrastructure**    HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HPE Rack and Power infrastructure solutions – rack infrastructure, power protection and management, performance optimized data centers (PODs) – are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at [HPE Rack and Power Infrastructure](#).

**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**    **NOTE:** High Performance Computing (HPC) interconnect technologies are available for this server under the HPE Cluster Platform product portfolio. These high-speed interconnects are fully supported by Hewlett Packard Enterprise when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPEC Clusters with InfiniBand Interconnects: <https://www.hpe.com/info/hpc/solutions>.

### 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.

## 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>

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### **One Config Simple (SCE)**

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

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## 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.

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### Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%<sup>1</sup> reduction in down time, near 100%<sup>2</sup> diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, 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.

<sup>1</sup> IDC

<sup>2</sup> HPE CSC reports 2014 - 2015

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### 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>

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### 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.



## 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.

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#### 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>

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#### HPE Support Center

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

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

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

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

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#### 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.

## 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
<b>[SKU Number]</b>	818207-B21	818208-B21
<b>Model Name</b>	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
<b>Processor</b>	Intel® Xeon® E5-2603v4	Intel® Xeon® E5-2630v4
<b>Number of Processors</b>	One	
<b>Memory</b>	8GB (1x8GB Registered DIMMs, 2400 MHz) <b>NOTE:</b> With E5-2603 v4 Processor, the actual DIMM speed will operate at 1866 MHz depending on DIMM configuration.	16GB (1x16GB Registered DIMMs, 2400 MHz) <b>NOTE:</b> With E5-2630 v4 Processor, the actual DIMM speed will operate at 2133 MHz depending on DIMM configuration.
<b>Network Controller</b>	HPE Embedded 1Gb Ethernet 4-port 331i Adapter	
<b>Storage Controller</b>	HPE H240ar Smart Host Bus Adapter	HPE Flexible Smart Array P440ar/2GB
<b>Hard Drive</b>	None ship standard	
<b>Internal Storage</b>	8 SFF HDD Bays	
<b>Optical Drive Bay</b>	Optional via Universal Media Bay	
<b>PCI-Express Slots</b>	2 Standard (1-FH/¾ L, 1-LP) PCIe 3.0	
<b>Power Supply</b>	(1) HPE 500W Flex Slot Platinum Power Supply	
<b>Fans</b>	5 standard hot plug fans, redundant	
<b>Management</b>	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HPE OneView (optional)	
<b>Form Factor</b>	Rack (1U), HPE Easy Install Rails	
<b>Warranty</b>	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response	

## 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)

<b>CTO Server</b>	HPE ProLiant DL360 Gen9 4LFF Configure-to-order Server	HPE ProLiant DL360 Gen9 8SFF Configure-to-order Server
<b>SKU Number</b>	755259-B21	755258-B21
<b>Processor</b>	2 (optional) x HPE Smart Socket Guide	
<b>DIMM Slots</b>	24 DIMM slots for RDIMM, LRDIMM DDR4 Memory	
<b>Storage Controller</b>	HPE Dynamic Smart Array B140i	
<b>PCIe</b>	2 PCIe 3.0 Slots: Slot 1, FH / $\frac{3}{4}$ Length; Slot 2, Low Profile	
<b>Drive Cage</b>	4LFF Hot Plug	8SFF Hot Plug
<b>Network Controller</b>	HPE Embedded 1Gb Ethernet 4-port 331i Adapter	
<b>Fans</b>	5 standard hot plug fans, redundant	
<b>Management</b>	iLO Management (standard), Intelligent Provisioning (standard)	
<b>USB</b>	1 front, 2 internal, 2 rear	
<b>Ears</b>	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	818168-L21
<b>NOTE:</b> This processor does not support Hyper-Threading.	
HPE DL360 Gen9 Intel Xeon E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	818170-L21
<b>NOTE:</b> This processor does not support Hyper-Threading.	
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

## Configuration Information - Factory Integrated Models

HPE DL360 Gen9 Intel Xeon E5-2667v4 (3.2GHz/8-core/25MB/135W) FIO Processor Kit	818196-L21
HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit	818198-L21
HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) FIO Processor Kit	818202-L21
HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Processor Kit	818204-L21
HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) FIO Processor Kit	818206-L21
HPE DL360 Gen9 Intel Xeon E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	818174-L21

**NOTE:** If two processors are desired, select one xxxxxx-L21 and one corresponding xxxxxx-B21.

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

**NOTE:** DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

**NOTE:** v4 Processors require PC4-2400T Memory Kits.

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

### HPE Memory

**NOTE:** Select one or more memory kits from below.

**NOTE:** LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM

**NOTE:** HPE memory from previous generation servers are not qualified or warranted with this HPE ProLiant Server. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9

**NOTE:** If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available

**NOTE:** Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: <https://www.hpe.com/us/en/about/environment/eco-labels.html>

**NOTE:** Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online 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	809208-B21

**NOTE:** 128GB DIMMs cannot be mixed with any other size DIMMs.

### HPE Power Supplies

**NOTE:** Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <https://paonline56.itcs.hpe.com/?Page=Index>

**NOTE:** Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

**NOTE:** Support for HPE Power Discovery Services is included with the 1400W Flex Slot option. Power 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>

**NOTE:** Maximum of two (2) Flex Slot Power Supplies per platform.

## Configuration Information - Factory Integrated Models

### HPE Flex Slot Hot-Plug Power Supplies

HPE 500W Flex Slot Platinum Hot Plug Power Supply Kit	720478-B21
<b>NOTE:</b> Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	
HPE 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
<b>NOTE:</b> Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	
HPE 800W Flex Slot Titanium Hot Plug Power Supply Kit	720482-B21
<b>NOTE:</b> Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	
HPE 800W Flex Slot -48VDC Hot Plug Power Supply Kit	720480-B21
<b>NOTE:</b> Flex Slot -48VDC power supplies support power efficiency of up to 94%	
HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit	720620-B21
<b>NOTE:</b> 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).	

### Step 3: Choose Additional Factory Integratable Options (only one of the following from each list unless otherwise noted)

#### HPE Storage Controllers

**NOTE:** The embedded B140i controller will be used as the primary controller if no controller is selected from the list below. Embedded SATA controller can support up to 8 SATA hard drives. Cable kit may be required

#### HPE Smart Array Controllers

HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	749974-B21
<b>NOTE:</b> Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
HPE Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21
<b>NOTE:</b> Provides support for up to 8 internal SAS/SATA drives, consumes one PCIe slot.	
<b>NOTE:</b> Includes the HP Smart Storage Battery	

#### HPE Smart Host Bus Adapters

HPE H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter	749976-B21
<b>NOTE:</b> Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
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
<b>NOTE:</b> Required with P440ar/2GB (749974-B21) or H240ar (749976-B21) if using the HP ProLiant DL360 Gen9 4LFF CTO Server (755259-B21)	
HPE DL360 Gen9 SFF Embedded SATA Cable	766207-B21
<b>NOTE:</b> Required with the HP ProLiant DL360 Gen9 8SFF CTO Server (755258-B21) if using the embedded B140i as primary controller	
HPE DL360 Gen9 SFF Smart Array P440/H240 SAS Cables	775927-B21
<b>NOTE:</b> Required with P440/4GB (761872-B21) or H240 (761873-B21) if using the HP ProLiant DL360 Gen9 8SFF CTO Server (755258-B21)	
HPE DL360 Gen9 LFF Smart Array P440/H240 SAS Cables	775929-B21
<b>NOTE:</b> Required with P440/4GB (761872-B21) or H240 (761873-B21) if using the HP ProLiant DL360 Gen9 4LFF CTO Server (755259-B21)	

#### BIOS Mode

HPE Legacy FIO Mode Setting	758959-B22
<b>NOTE:</b> 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	

#### Controller State

HPE FIO Enable Smart Array SW RAID	784308-B21
<b>NOTE:</b> Must be selected when B140i is used as the primary controller and RAID is desired.	
HPE Manufacturing FIO Enable HBA Mode Setting	792962-B21

## Configuration Information - Factory Integrated Models

**NOTE:** When selected if H240ar/H240 are used as the primary controller then RAID is not allowed.

<b>HPE Converged Infrastructure Management Software</b>	<b>HPE OneView Advanced (with HPE iLO Advanced)</b>	
	HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
	<b>HPE OneView Advanced (without HPE iLO Advanced)</b>	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A

### Step 4: Choose Additional Options for Factory Integration from Core and Additional Options Sections below.

**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.

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## 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.

<b>HPE Unique Options</b>	HPE DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit	764630-B21
	<b>NOTE:</b> Required when upgrading from an 8SFF config to a 10SFF config. This option kit is not supported on the 4LFF CTO Server and cannot be used with the DVD-ROM or DVD-RW Universal Media Bay option kits.	
	<b>NOTE:</b> 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
	<b>NOTE:</b> DVD-RW, 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 DVD/USB Universal Media Bay Kit	818213-B21
	<b>NOTE:</b> 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
	<b>NOTE:</b> 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
	<b>NOTE:</b> 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
	<b>NOTE:</b> 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
	<b>NOTE:</b> This option provides support for up to 2 NVMe SFF drives. This option cannot be used with the Universal Media Bay Kit.	
	<b>NOTE:</b> The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) will be required with this option.	
	<b>NOTE:</b> The PCIe card in this enablement kit can only be populated in slot1 of primary riser or in slot3 of secondary optional FH riser.	
	HPE DL360 Gen9 6 NVMe + 4 SAS/SATA Express Bay Enablement Kit	817676-B21
	<b>NOTE:</b> This option kit provides support for up to 6 NVMe drives (drives 5-10).	
	<b>NOTE:</b> 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
	<b>NOTE:</b> 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
	<b>NOTE:</b> Adds a System Insight Display for improved diagnosis capabilities on a 4LFF model.	
	HPE DL360 Gen9 Location Discovery Services Ear Kit	764757-B21
	<b>NOTE:</b> Requires ProLiant Location Discovery Services Infrastructure within server racks.	

## Core Options

<b>HPE Processors</b>	<b>E5-2600v4 series Processors</b>	
	HPE DL360 Gen9 Intel Xeon E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit	818172-B21
	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 E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit	818184-B21
	HPE DL360 Gen9 Intel Xeon E5-2690v4 (2.6GHz/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
	<b>NOTE: Ships with a High Performance Heatsink</b>	
	HPE DL360 Gen9 Intel Xeon E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	818174-B21
	HPE DL360 Gen9 Intel Xeon E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit	818166-B21
	HPE DL360 Gen9 Intel Xeon E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit	818168-B21
	<b>NOTE: This processor does not support Hyper-Threading.</b>	
	HPE DL360 Gen9 Intel Xeon E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	818170-B21
	<b>NOTE: This processor does not support Hyper-Threading.</b>	
	HPE DL360 Gen9 Intel Xeon E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit	818190-B21
	HPE DL360 Gen9 Intel Xeon E5-2637v4 (3.5GHz/4-core/15MB/135W) Processor Kit	818192-B21
	<b>NOTE: Ships with a High Performance Heatsink</b>	
	HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit	818194-B21
	<b>NOTE: Ships with a High Performance Heatsink</b>	
HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit	818182-B21	
<b>NOTE: Ships with a High Performance Heatsink</b>		
HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit	818188-B21	
<b>NOTE: Ships with a High Performance Heatsink</b>		
HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit	818198-B21	
HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit	818202-B21	
<b>NOTE: Ships with a High Performance Heatsink</b>		
HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit	818204-B21	
<b>NOTE: Ships with a High Performance Heatsink</b>		
HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit	818206-B21	
<b>NOTE: Ships with a High Performance Heatsink</b>		
<b>NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported.</b>		
<b>NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.</b>		
<b>NOTE: Processors consuming up to 120w ship with standard heat sink.</b>		
<b>NOTE: Processors consuming over 120w ships with a High Performance heat sink as standard except the Intel Xeon E5-2690v4..</b>		
<b>NOTE: A High Performance heat sink can be added to help reduce power consumption (795235-B21).</b>		

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

HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2400 CAS-17-17-17 Registered Smart Memory Kit	P00423-B21
<b>NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MHz.</b>	

## Core Options

**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 Drives

HPE 9.5mm SATA DVD-ROM Optical Drive 726536-B21

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

## 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: <http://www.hpe.com/products/recommend>.

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

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

## 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
<b>12G SAS Mixed Use LFF (3.5in)</b>	
HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	P04529-B21
<b>6G SATA Hot Plug SFF (2.5 inch) SC Midline Hard Drives - 1yr Warranty</b>	
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	655710-B21

## Core Options

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

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



## 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
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P00896-B21
<b>6G SATA Read Intensive LFF (3.5in)</b>	
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
<b>6G SATA Hot Plug LFF (3.5-inch) SCC DS Mixed Use Solid State Drives - 3yr Warranty</b>	
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty 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
<b>HPE NVMe PCIe Read Intensive SFF (2.5 inch) SC2 Solid State Drives - 3yr Warranty</b>	
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
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05946-B21
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 [HPE Solid State Drive QuickSpecs](#).

## Core Options

### 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 inbox drivers.

**NOTE:** For full detail please see the [HPE Solid State Drive QuickSpecs](#)

### M.2 SSD

HPE Universal SATA HHHL 3yr Wty M.2 Kit	878783-B21
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**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
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**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
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**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
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**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.

**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 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.

### 25 Gigabit Ethernet adapters

HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
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**NOTE:** This option provides support for up to 6NVMe drives in SFF only. Adding NVMe drives replaces support for Universal Media Bay.

**NOTE:** The PCIe card in this enablement kit can only be populated in slot1 of primary riser.

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### HPE 10 Gigabit Ethernet adapters

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

## Core Options

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 adapter.

**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.

**NOTE:** A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

**NOTE:** Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.

**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
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### HPE InfiniBand 10Gb

HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
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**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
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### HPE InfiniBand HPE InfiniBand 100Gb

HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter	872725-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	872726-B21
HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825111-B21

### HPE 100Gb 1-port with Intel Omni-Path

## Core Options

HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter 829335-B21

**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 PCIe Slot CPU2 Kit 764642-B21

**NOTE:** This option kit requires a second CPU and will add an additional Low Profile PCIe 3.0 slot.

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 slot.

**NOTE:** This kit includes GPU power cable and bracket; when this option kit is installed the Low Profile PCIe3.0 riser is not useable.

**NOTE:** It is not possible to convert a unit with the Full height kit back to dual Low Profile brackets.

HPE DL360 Gen9 2P Full Height PCIe Slot 2 GPU Enablement Kit 867249-B21

### HPE Power Supplies

HPE 500W Flex Slot Platinum Hot Plug Power Supply Kit 720478-B21

**NOTE:** Flex Slot Platinum power supplies support power efficiency of up to 94%. Includes a C-14 power inlet connector.

HPE 800W Flex Slot Platinum Hot Plug Power Supply Kit 720479-B21

**NOTE:** Flex Slot Platinum Plus power supplies support power efficiency of up to 94%. Includes a C-14 power inlet (blue) connector that can support HPE Power Discovery Services.

**NOTE:** Flex Slot Platinum power supplies support power efficiency of up to 96%.

**NOTE:** Also available in -48VDC and 227VAC / 380VDC power inputs, 720480 and 720484

HPE 800W Flex Slot -48VDC Hot Plug Power Supply Kit 720480-B21

**NOTE:** Flex Slot -48VDC power supplies support power efficiency of up to 94%.

HPE 800W Flex Slot Titanium Hot Plug Power Supply Kit 720482-B21

**NOTE:** Flex Slot Titanium power supplies support power efficiency of up to 96%.Includes a C-14 power inlet connector.

**NOTE:** Flex Slot Universal power supplies support power efficiency of up to 94% and support both 277VAC / 380VDC power inputs.

HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit 720620-B21

**NOTE:** Flex Slot Platinum Plus power supplies support power efficiency of up to 94%.

Includes a C-14 power inlet (blue) connector that can support HPE Power Discovery Services.

**NOTE:** Maximum of 2 Flex Slot power supplies per platform.

**NOTE:** All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/experience operational issues with your server.

**NOTE:** Mixing different power supplies in the same server may limit or disable some power supply features including support for power redundancy. To ensure access to all available features, all power supplies within the same server should have the same output and efficiency ratings

**NOTE:** Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply. The HPE Power Advisor is located at:

<http://www.hpe.com/info/hppoweradvisor>.

**NOTE:** Support for HPE Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HPE Server power supplies can be found at: <http://www.hpe.com/info/proliant/powersupply>.

**NOTE:** Flex Slot Titanium power supplies support power efficiency of up to 96%.

Includes a C-14 power inlet connector.

**HPE Computation and** HPE NVIDIA Quadro P4000 Graphics Accelerator Q0V78A  
HPE NVIDIA Tesla P4 8GB Computational Accelerator Q0V79A

## Core Options

### Graphics Accelerators

**NOTE:** Flex Slot Universal power supplies support power efficiency of up to 94% and support both 277VAC / 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 Enablement 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 Enablement 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).

## 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.

<b>HPE Converged Infrastructure Management Software</b>	<b>HPE OneView Advanced (with HPE iLO Advanced)</b>	
	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
	<b>HPE OneView Advanced (without HPE iLO Advanced)</b>	
	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
<b>NOTE:</b> Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.		
<b>NOTE:</b> Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning.		
<b>NOTE:</b> Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <a href="http://www.hpe.com/info/hpeoneview">http://www.hpe.com/info/hpeoneview</a> .		
<b>NOTE:</b> Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. <b>NOTE:</b> Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <a href="http://www.hpe.com/info/hpeoneview">http://www.hpe.com/info/hpeoneview</a> .		

<b>High Performance Clusters</b>	<b>HPE Cluster Management Utility</b>	
	HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU	QL803B
	HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU	BD476A
	<b>NOTE:</b> These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement.	
	HPE Insight Cluster Management Utility Media	BD477A
<b>NOTE:</b> For additional license kits please see the <a href="#">HPE Insight Cluster Management Utility QuickSpecs</a> .		

<b>HPE PCIe Workload Accelerator Options</b>	<b>HPE Mixed Use PCIe Workload Accelerator</b>	
	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
<b>NOTE:</b> Please see the <a href="#">HPE PCIe Workload Accelerators for ProLiant Servers QuickSpecs</a> for Technical Specifications and additional information.		

<b>HPE Security</b>	HPE 1U Security Bezel Kit	664918-B21
	HPE Trusted Platform Module 2.0 Kit	745823-B21
<b>NOTE:</b> This option kit is supported on Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.		



## 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

**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.

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### 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 associated 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 the HPE Smart Storage Battery.

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 allow the 2<sup>nd</sup> GPU to fit.

##### 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.

## Additional Options

HPE DL360 Gen9 SFF Smart Array P440/H240 SAS Cables 775927-B21

**NOTE:** Required for use with the HPE Smart Array P440 (PCIe Controllers) 726821-B21 or 761872-B21, the option kit documentation details out cable placement with the HPE Smart Array P440 in PCIe 3.0 Slots 1 or 2 connecting to the 8SFF 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 761872-B21, the option kit documentation details out cable placement with the HPE Smart Array P440 in PCIe 3.0 Slots 1 or 2 connecting to the 4LFF backplane.

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 Smart Array P440ar.

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 "DL360 Gen9 LFF..." are supported on the 4 LFF models only.

### Optional Software

HPE Smart Array SR SmartCache (Single Key/Single Server) LTU D7S26A

HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU D7S27A

HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU D7S27AAE

**NOTE:** HPE SmartCache is supported when one of the supported Smart Array Controllers is installed in the server.

**NOTE:** HPE SmartCache comes standard (no licensing is required) if the HPE Smart Array P840 Controller is installed in the server.

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### HPE Tape Backup

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

#### Rack-Mount Tape Solutions

##### Tape Drives

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 additional information).

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### 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

## Additional Options

HPE RDX 1TB External Disk Backup System	B7B69B
HPE RDX External Docking Station	C8S07B
HPE D3700 Enclosure	QW967A
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 Options

**NOTE:** The following is a list of all Fibre Channel Host Bus Adapters for Windows and Linux. For detailed 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	Q0L11A
HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	Q0L12A
HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	Q0L13A
HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	Q0L14A
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

## Additional Options

### HPE Data Center Racks

#### HPE Advanced Series Racks

**NOTE:** Please see the [HPE Advanced Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

#### HPE Enterprise Series Racks

**NOTE:** Please see the [HPE Enterprise Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

**NOTE:** Gen9 rail kits have changed significantly from prior generation rail kits. Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server. Rail kits are optional for DL360/380 Gen9 and is no longer standard with the server. Customers have the option to purchase their server without a rail kit.

**NOTE:** Ball bearing and Easy Install rail kits contain telescoping rails to allow for in-rack servicing.

**NOTE:** To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001).

**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.

### HPE Power Distribution Units (PDUs)

#### HPE Basic Power Distribution Units (PDU)

**NOTE:** Please see the [HPE Basic Power Distribution Units \(PDU\) QuickSpecs](#) for information on additional options and product specifications.

#### HPE Metered Power Distribution Units (PDU)

**NOTE:** Please see the [HPE Metered Power Distribution Units \(PDU\) QuickSpecs](#) for information 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 [HPE Metered and Switched Power Distribution Units \(PDU\) QuickSpecs](#) for information on additional options and product specifications.

**NOTE:** To learn more, please visit the [HPE Uninterruptible Power Systems \(UPS\) web page](#)

### HPE Rack Mount Consoles, KVM Switches, and Keyboards

#### HPE Location Discovery Services

#### HPE Rack Mount Consoles

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

## Additional Options

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](#).

### HPE USB Keyboard and Mouse

HPE USB US Keyboard/Mouse Kit	631341-B21
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### Rail Kits

HPE 1U LFF Gen9 Easy Install Rail Kit	789388-B21
HPE 1U Small Form Factor Easy Install Rail Kit	734807-B21
HPE 1U Cable Management Arm for Rail Kit	734811-B21
HPE 1U Small Form Factor Ball Bearing Rail Kit	663201-B21
HPE 1U Large Form Factor Ball Bearing Rail Kit	663202-B21

### HPE Other Options

HPE Rack LED Light Kit	BW939A
HPE Kit LCD 1.83m Latch Display Port Cable	G7T29A

## HPE Uninterruptible Power Systems (UPS)

### HPE Rack/Tower UPS

#### R7000 Uninterruptible Power System (UPS)

HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
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#### R5000 Uninterruptible Power System (UPS)

HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
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**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 \(UPS\) web page](#).

## HPE USB and SD Options

### HPE Enterprise Mainstream Flash Media Kits for Memory Cards

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 Services

### Installation & Start-up Services

HPE Install ProLiant DL3xx Service	U4506E
HPE Installation and Startup DL3xx Service	U4507E

### Proactive Care

HPE 3 year Proactive Care 24x7 DL360 Gen9 w/IC Service	U5HM4E
HPE 3 year Proactive Care 24x7 with DMR DL360 Gen9 w/IC Service	U5HM5E
HPE 3 year Proactive Care 24x7 with CDMR DL360 Gen9 w/IC Service	U5HM6E
HPE 3 year Proactive Care Call to Repair DL360 Gen9 w/IC Service	U5HN3E

## Additional Options

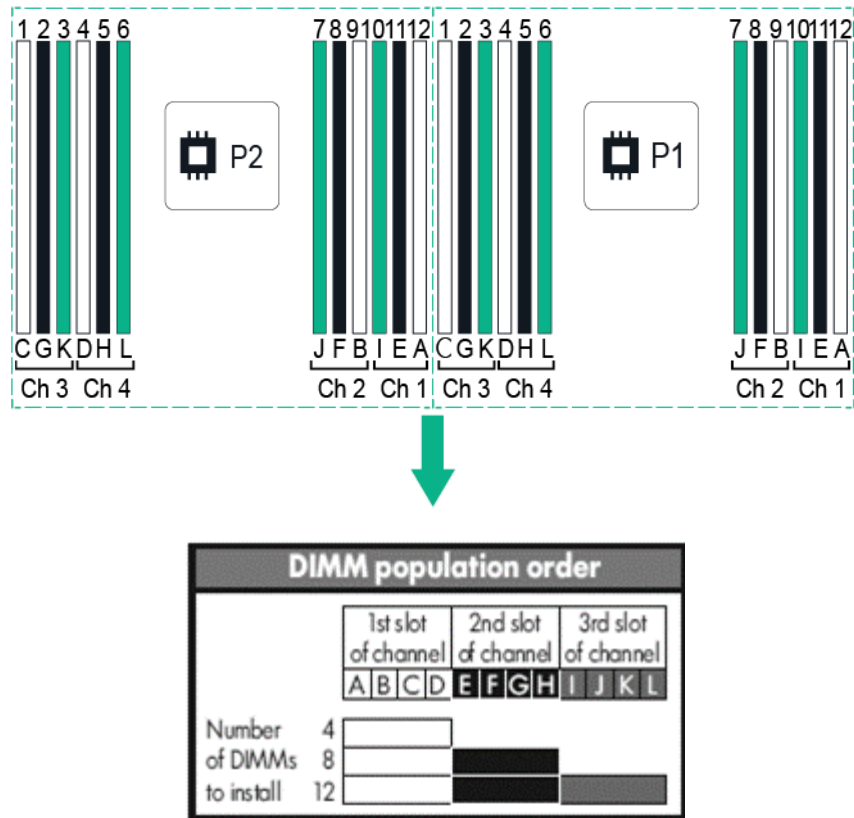
HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL360 Gen9 w/IC Service	U5HN4E
HPE 3 year Proactive Care Call to Repair with CDMR DL360 Gen9 w/IC Service	U5HN5E
HPE 3 year Proactive Care 24x7 DL360 Gen9 Service	U7AM2E
HPE 3 year Proactive Care 24x7 with DMR DL360 Gen9 Service	U7AM3E
HPE 3 year 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/>

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## 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.



## Memory

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

Memory Bandwidth and Capacity								
[DIMM Type]	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
<b>SLOTS THAT CAN BE POPULATED</b>								
24 slot servers	24	24	24	24	24	24	24	24
<b>MAXIMUM CAPACITY (GB)</b>								
	192	384	384	384	768	768	1536	3072
<b>POPULATED DIMM SPEED (MT/s)</b>								
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]	Registered DIMMs (RDIMMs)				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

<b>CAS Latency</b>	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15
<b>DIMM Native Speed (MT/s)</b>	2133	2133	2133	2133	2133
<b>SLOTS THAT CAN BE POPULATED</b>					
24 slot servers	24	24	24	24	24
<b>MAXIMUM CAPACITY (GB)</b>					
	96	192	384	768	1536
<b>POPULATED DIMM SPEED (MT/s)</b>					
<b>1 DIMM Per Channel</b>	2133	2133	2133	2133	2133
<b>2 DIMM Per Channel</b>	2133	2133	2133	2133	2133
<b>3 DIMM Per Channel</b>	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, CPU2-B, CPU1-C, CPU2-C.

CPU 1			CPU 2		
	Slot #	Population order	Slot #	Population order	
Chnl 3	1	C	1	C	Chnl3
	2	G	2	G	
	3	K	3	K	
CPU 1			CPU 2		
	Slot #	Population order	Slot #	Population order	
Chnl 4	4	D	4	D	Chnl 4
	5	H	5	H	
	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	B	9	B	
CPU 1			CPU 2		
	Slot #	Population order	Slot #	Population order	
Chnl 1	10	I	10	I	Chnl 1
	11	E	11	E	
	12	A	12	A	

Memory

Memory Speed by Processor Model	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

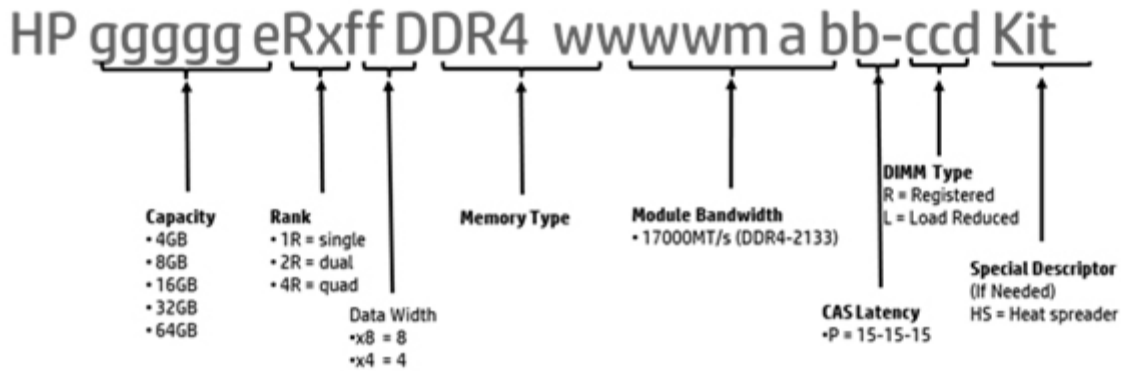
Standard and Maximum Memory Capacity (Pre-configured Models)	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
	E5-2670v3	64GB (4x16GB)	704GB (20x32GB, 4x16GB)	1536GB (24x64GB)
	E5-2660v4	64GB (4x16GB)	704GB (20x32GB, 4x16GB)	3072GB (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)

## Memory

### DDR4 memory options part number decoder

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

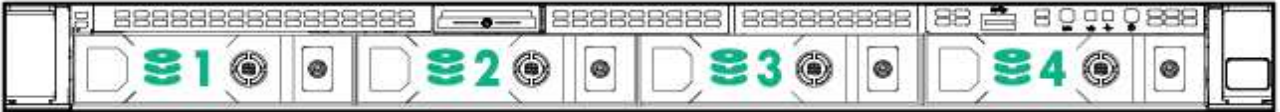
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



## Storage



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



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



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

## Technical Specifications

<b>System Unit</b>	<b>Dimensions</b>	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)
	<b>Weight</b> (approximate)	Maximum: (all hard drives, power supply, and processor installed) 8 SFF Chassis 33.3 lb. (15.31 kg) <b>NOTE: Includes 2 SFF Option for a total of 10 SFF HDD.</b> 4 LFF Chassis 37 lb. (16.78kg) Minimum: (one hard drive, power supply, and processor installed) 8SFF Chassis 27 lb. (12.25 kg) 4 LFF Chassis 30.36 lb. (13.77 kg)
	<b>Input Requirements</b> (per power supply)	Rated Line Voltage 100 to 120 VAC 200 to 240 VAC
	<b>BTU Rating</b>	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
	<b>Power Supply Output</b> (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

## Technical Specifications

<b>System Inlet Temperature</b>	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. <b>NOTE:</b> 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: <a href="http://www.hpe.com/servers/ashrae">http://www.hpe.com/servers/ashrae</a>
<b>Relative Humidity</b>  (non-condensing)	Non-operating	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: <a href="http://www.hpe.com/servers/ashrae">http://www.hpe.com/servers/ashrae</a>
	Operating	System performance may be reduced if operating in the extended ambient operating range or with a fan fault. -30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
	Non-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.
<b>Altitude</b>	Operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
	Non-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). 9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).



## Technical Specifications

### Acoustic Noise

Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

#### Idle

LWAd	(1P non-redundant) 4.6 A Average Bystander (2P redundant) 5.5 A Average Bystander
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

**NOTE:** 1P Configuration tested included two Intel E5-2630 v3, 2.3GHz processors, one 500GB SAS HDD, five standard hot plug fans, one 8GB DDR4 RDIMM's 2133MHz, 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 (EMC)

FCC Rating	Class A
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.

## Technical Specifications

### HPE Dynamic Smart Array B140i Controller

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

<b>HPE Ethernet 1Gb 4-port 331i Adapter</b>	<b>Network Interface</b>	10Base-T/100Base-TX/1000Base-TX
	<b>Compatibility</b>	IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX
	<b>Data Transfer Method</b>	PCI Express, two lanes (x2)
	<b>Controller</b>	BCM5719
<b>Network Transfer Rate</b>	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
<b>Connector</b>	Four RJ-45	
<b>Cable Support</b>	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>

## 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.
		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	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	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.

## 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	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.
		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 GPU 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.

## Summary of Changes



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

c04375623 - 15033 - North America - V48 - 01-July-2019

