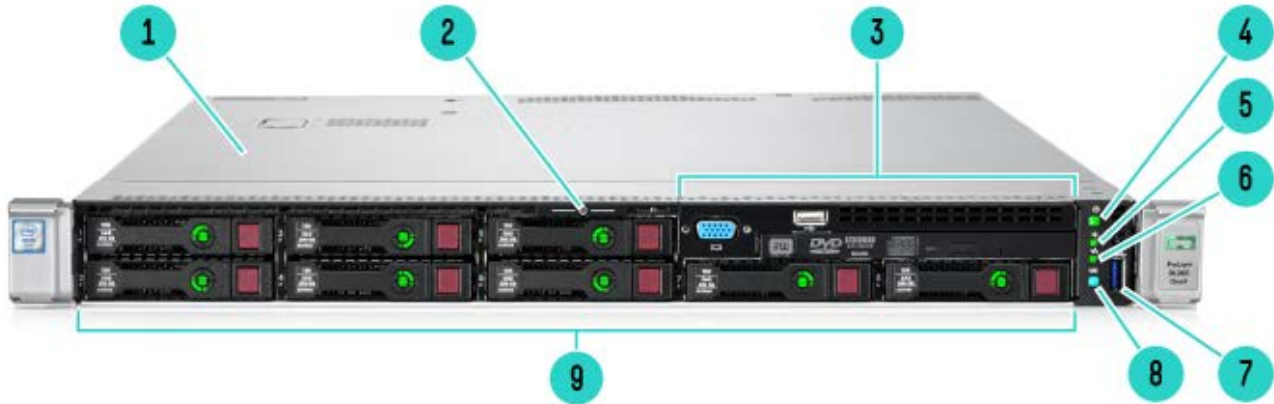


### Overview

### HPE ProLiant DL360 Generation9 (Gen9)

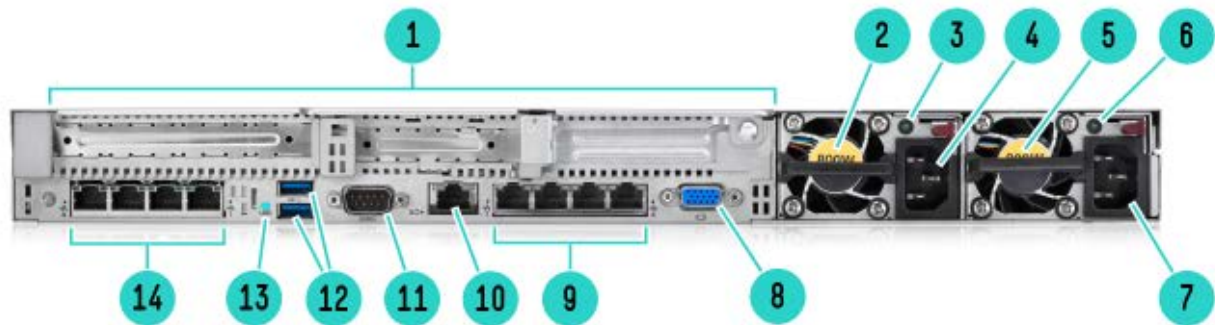
The Hewlett Packard Enterprise leading server for dense general-purpose computing, the HPE ProLiant DL360 Gen9 Server delivers increased performance with the best memory and I/O expandability packed in a 1U dense rack design. Reliability, serviceability and always on availability, backed by a comprehensive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



### Front View

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

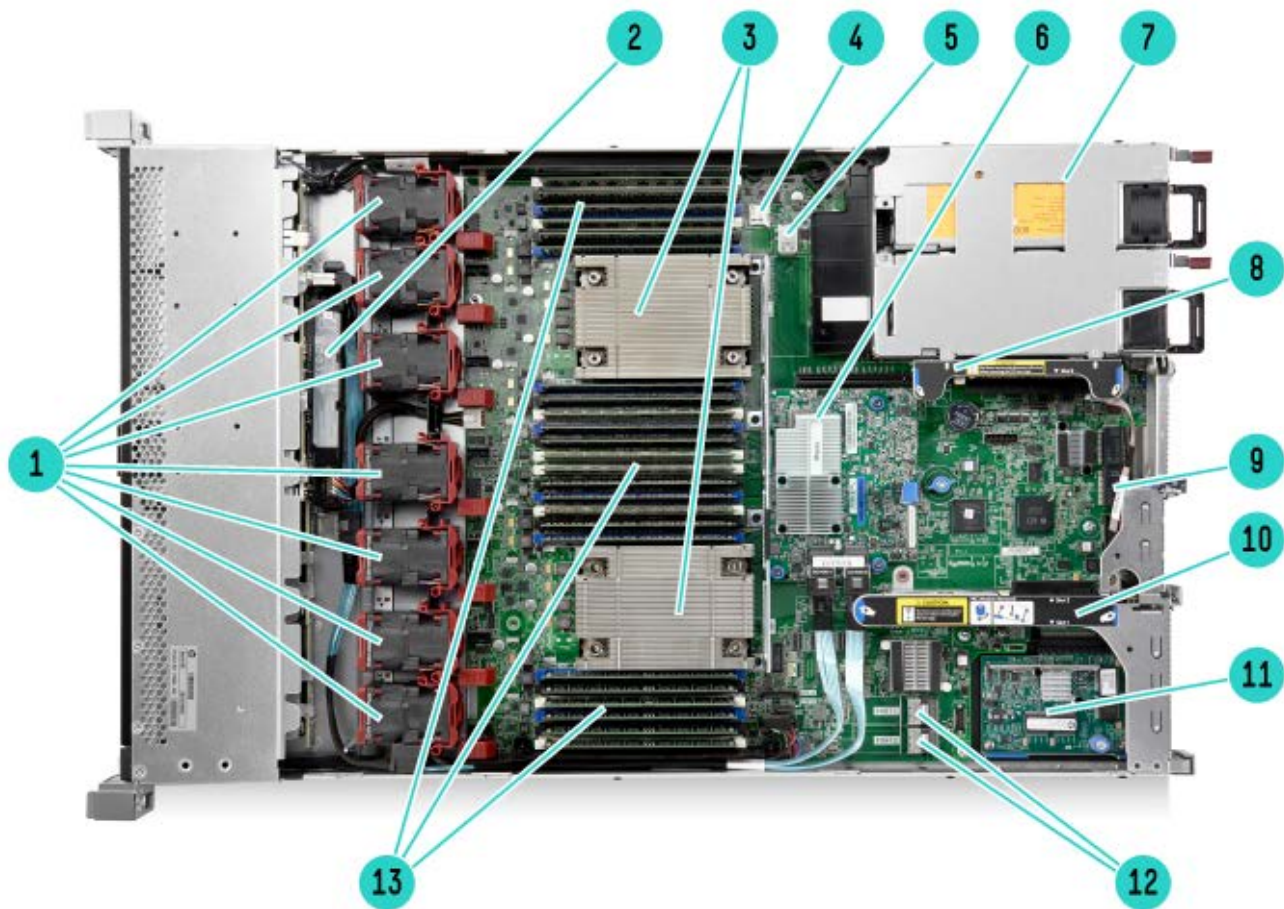
## Overview



## Rear View

1. PCIe 3.0 Slots 1-3  
**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.
2. HPE Flexible Slot Power Supply Bay 2
3. Power Supply 2 Status LED
4. Power Supply 2 C13 Connection
5. HPE Flexible Slot Power Supply Bay 1
6. Power Supply 1 Status LED
7. Power Supply 1 C13 Connection
8. Video Connector
9. Embedded 4x1GbE Network Adapter
10. Dedicated iLO 4 connector
11. Serial Port Connector (Optional)
12. USB 3.0 Connectors (2)
13. Unit Identification LED
14. FlexibleLOM bay (Optional)  
**NOTE:** Shown: 4x1Gbe.

## Overview



### Internal View

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. 5 Standard Fans Ship for 1P and 7 Standard Fans Ship for 2P<br/><b>NOTE: High Performance Fans also available as an option.</b></li> <li>3. 2 Processors with HPE Smart Socket Guide</li> <li>5. Dual Internal USB 3.0 connector</li> <li>7. 2 HPE Flexible Slot Power supplies<br/><b>NOTE: Optional Micro UPS option</b></li> <li>9. Embedded 4x1Gbe NIC</li> <li>11. FlexibleLOM Bay (Optional)</li> <li>13. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)</li> </ol> | <ol style="list-style-type: none"> <li>2. HPE Smart Storage Battery (Optional)</li> <li>4. MicroSD card slot<br/><b>NOTE: Optional Dual Micro-SD option.</b></li> <li>6. HPE Flexible Smart Array or Smart HBA (Optional)<br/><b>NOTE: H240ar shown and P440ar available.</b></li> <li>8. Secondary PCIe 3.0 riser for PCIe slot 3 (requires CPU 2)</li> <li>10. Primary PCIe 3.0 riser for PCIe slots 1 &amp; 2</li> <li>12. Embedded SATA Controller ports</li> </ol> |
|--|---|

## 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.
- 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

HPE iLO (Firmware HPE iLO4 2.0 or later) 4GB NAND

### Management Chipset

**NOTE:** 1GB USB user space configurable via UEFI and accessible via iLO. Read and learn more in the [iLO QuickSpecs](#).

### Memory

One of the following depending on model

Type:

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.

### Expansion Slots

## Standard Features

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 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 Drives	None ship standard
Hard Drive Bays	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 in CTO. <b>NOTE:</b> Pre-configured models come populated with some hard drive blanks. To order additional (single) hard drive blanks, use either: P/N 666987-B21: HPE SFF Hard Drive Blank Kit or P/N 666986-B21: HPE LFF Hard Drive Blank Kit. <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	27.36TB	6 x 2.0TB 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: Serial Cable Option Kit: 764646-B21.</b>	
	Video	1 rear (Standard) 1 front (Optional)
	<b>NOTE: Front VGA options available for 8SFF and 4LFF models. See Core Options section of this QuickSpecs for more details.</b>	
	Network RJ-45 (Ethernet)	Embedded 4x1GBE + FlexibleLOM bay
	<b>NOTE: Both the SFF and LFF chassis have an embedded 4x1GbE NIC and FlexibleLOM bay. See HPE Networking section below for more details.</b>	
	HPE iLO Remote Management Network Port	1 Gb Dedicated
	SD Connector	1 micro SD Internal
	<b>NOTE: 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.</b>	
	USB 3.0	5 total: 2 rear, 1 front, 2 internal

<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](#).**

<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: 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.</b>
	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 Chassis with: Option Kit 726536-B21 - HPE 9.5mm SATA DVD-ROM Jb Gen9 Kit	



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## Standard Features

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

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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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## Standard Features

### 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.

### Embedded Management

#### HPE Integrated Lights-Out (HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at <http://www.hpe.com/info/ilo>.

#### UEFI

Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <http://www.hpe.com/servers/uefi>.

#### RESTful API

RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at <http://www.hpe.com/info/restfulapi>.

#### Intelligent Provisioning

Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at <http://www.hpe.com/servers/intelligentprovisioning>.

#### Embedded Remote Support

The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at <http://www.hpe.com/info/insightonline/explore>.

### Server utilities

#### Smart Update

Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at <http://www.hpe.com/servers/smartupdatemanager>.

#### HPE Systems Insight Manager (HPE SIM)

HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for non-Hewlett Packard Enterprise servers.

HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at <http://www.hpe.com/servers/hpsim>.

#### Scripting Tool Kit and Windows PowerShell

Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at <http://www.hpe.com/servers/proliant/stk> or <http://www.hpe.com/servers/powershell>.

#### RESTful Interface Tool

RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at <http://www.hpe.com/info/resttool>.

#### HPE iLO Mobile Application

Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: <http://www.hpe.com/info/ilo/mobileapp>.

## Standard Features

**HPE Insight Online** 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 <http://www.hpe.com/info/insightonline/explore>.

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### 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/>.**

## Optional Features

<b>Server Management</b>	<b>HPE Insight Control</b>	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 <a href="http://www.hpe.com/info/insightcontrol">http://www.hpe.com/info/insightcontrol</a> .
	<b>HPE Insight Cluster Management Utility (CMU)</b>	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 <a href="http://www.hpe.com/info/cmu">http://www.hpe.com/info/cmu</a> .
<b>Rack and Power Infrastructure</b>	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 <a href="#">HPE Rack and Power Infrastructure</a> .	
<b>High Performance Clusters</b>	<b>HPE Insight Cluster Management Utility (CMU)</b>	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 <a href="http://www.hpe.com/info/cmu">http://www.hpe.com/info/cmu</a> .
<b>HPC Interconnects</b>	<b>NOTE:</b> 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: <a href="https://www.hpe.com/info/hpc/solutions">https://www.hpe.com/info/hpc/solutions</a> .	
<b>Storage Software</b>	<p>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:</p> <ul style="list-style-type: none"> <li>• <b>Data Protection and Recovery Software</b> 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.</li> <li>• <b>Data Archive and Migration Software</b> 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.</li> <li>• <b>Storage Resource Management Software (SRM)</b> 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.</li> <li>• <b>Data Replication Software</b> Hewlett Packard Enterprise offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting.</li> </ul>	

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## Optional Features

- **Storage Device Management Software**

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

- **HPE StoreVirtual VSA**

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

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

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

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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/>.

## Service and Support

### HPE Support Services

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

**Connect your devices** Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%<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.

1- IDC 2 – HPE CSC reports 2014 - 2015

### Recommended Support

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

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

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

#### **Optimized HPE Proactive Care\* with 6 hour call-to-repair commitment, three year Support Service**

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years' proactive reporting and advice with our highest level of hardware support – Hewlett Packard Enterprise 24x7, six hour hardware call-to-repair. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your Hewlett Packard Enterprise servers.

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

### Parts and Materials

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

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

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

### 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**

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## Service and Support

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>

## 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 [ProLiant Power Cables](#) web page.

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

	Entry Models	Base Models	
<b>[SKU Number]</b>	818207-B21	818208-B21	848736-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	HPE ProLiant DL360 Gen9 E5-2640v4 2.4 GHz 10-core 1P 16GB-R P440ar 8SFF 500W PS WW Base Server
<b>Processor</b>	Intel® Xeon® E5-2603v4	Intel® Xeon® E5-2630v4	Intel® Xeon® E5-2640v4
<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.	16GB (1x16GB Registered DIMMs, 2400 MHz) <b>NOTE:</b> With E5-2640 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		



## Pre-configured Models

	Performance Models	High Performance Models
<b>[SKU Number]</b>	818209-B21	851937-B21
<b>Model Name</b>	HPE ProLiant DL360 Gen9 E5-2650v4 2.2GHZ 12-core 2P 32GB-R P440ar 8SFF 800W RPS Perf SAS Server	HPE ProLiant DL360 Gen9 E5-2660v4 2.0GHZ 14-core 2P 64GB-R P440ar 8SFF 800W RPS Perf2 SAS Server
<b>Processor</b>	Intel® Xeon® E5-2650v4	Intel® Xeon® E5-2660v4
<b>Number of Processors</b>	Two	
<b>Memory</b>	32GB (2x16GB Registered DIMMs, 2400 MHz) <b>NOTE: With E5-2650 v4 Processor, the actual DIMM speed will operate at 2400 MHz depending on DIMM configuration.</b>	64GB (4x16GB Registered DIMMs, 2400 MHz) <b>NOTE: With E5-2660 v4 Processor, the actual DIMM speed will operate at 2400 MHz depending on DIMM configuration.</b>
<b>Network Controller</b>	HPE Embedded 4x1Gb, plus 2x10Gb-T Flexible LOM	HPE Embedded 4x1Gb, plus 2x10Gb SFP+ Flexible LOM
<b>Storage Controller</b>	HPE Flexible Smart Array P440ar/2GB	HPE Smart Array P440ar/2G Controller
<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	3 Standard (1-FH/HL, 2-LP) PCIe 3.0
<b>Power Supply</b>	(2) HPE 800W Flex Slot Platinum Power Supply	
<b>Fans</b>	7 standard hot plug fans, redundant	
<b>Management</b>	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HPE OneView (optional)	
<b>Energy Star</b>	Meets Energy Star requirements	
<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 / ¾ 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 1 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® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit	818164-L21
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

## Configuration Information - Factory Integrated Models

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
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® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor Kit	818200-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: <http://www.hp.com/go/proliant-energy-efficient>

**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 at: <http://www.hp.com/go/ddr4config>

## Configuration Information - Factory Integrated Models

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

HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21

### Load Reduced DIMMs (RDIMMs) for E5-2600v4 Series

HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
HP 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-17-17-17 Load Registered Memory Kit	809208-B21

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

### HPE Persistent Memory (NVDIMM)

**NOTE:** The following memory is supported by the E5-2600v4 series Processor only.

HPE 8GB NVDIMM Single Rank x4 DDR4-2133 Module	782692-B21
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**NOTE:** A maximum of 16 NVDIMMs can be supported. NVDIMMs cannot be used with LRDIMMs.

**NOTE:** NVDIMMs 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.

**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: <http://www.hp.com/go/hppoweradvisor>

**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:

<http://www.hp.com/go/proliant/powersupply>.

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

### HPE Flex Slot Hot-Plug Power Supplies

HP 500W Flex Slot Platinum Hot Plug Power Supply Kit	720478-B21
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**NOTE:** Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

HP 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
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**NOTE:** Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

HP 800W Flex Slot Titanium Hot Plug Power Supply Kit	720482-B21
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**NOTE:** Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.

HP 800W Flex Slot Universal Hot Plug Power Supply Kit	720484-B21
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**NOTE:** Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.

HP 800W Flex Slot -48VDC Hot Plug Power Supply Kit	720480-B21
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**NOTE:** Flex Slot -48VDC power supplies support power efficiency of up to 94%

HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit	720620-B21
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**NOTE:** Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).

HP 750W Flex Slot Hot Plug Battery Backup Module	738024-B21
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## HPE Power Supplies

## Configuration Information - Factory Integrated Models

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

**NOTE:** Only one Battery Backup module per server, and a Flex Slot Power Supply needed in parallel.

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

<b>HPE Storage Controllers</b>	<p><b>NOTE:</b> 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</p> <p><b>HPE Smart Array Controllers</b></p> <p>HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller 749974-B21</p> <p><b>NOTE:</b> Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.</p> <p>HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller 761872-B21</p> <p><b>NOTE:</b> Provides support for up to 8 internal SAS/SATA drives, consumes one PCIe slot.</p> <p><b>NOTE:</b> Includes the HP Smart Storage Battery</p> <p><b>HPE Smart Host Bus Adapters</b></p> <p>HP H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter 749976-B21</p> <p><b>NOTE:</b> Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.</p> <p>HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter 761873-B21</p> <p><b>HPE Cable Options</b></p> <p>HP DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable 766211-B21</p> <p><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)</p> <p>HP DL360 Gen9 SFF Embedded SATA Cable 766207-B21</p> <p><b>NOTE:</b> Required with the HP ProLiant DL360 Gen9 8SFF CTO Server (755258-B21) if using the embedded B140i as primary controller</p> <p>HP DL360 Gen9 SFF Smart Array P440/H240 SAS Cable 775927-B21</p> <p><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)</p> <p>HP DL360 Gen9 LFF Smart Array P440/H240 SAS Cable 775929-B21</p> <p><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)</p>
<b>BIOS Mode</b>	<p>HP Legacy FIO Mode Setting 758959-B22</p> <p><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</p>
<b>Controller State</b>	<p>HP FIO Enable B140i Setting 784308-B21</p> <p><b>NOTE:</b> Must be selected when B140i is used as the primary controller and RAID is desired.</p> <p>HP Mfg FIO Enable HBA Mode Setting 792962-B21</p> <p><b>NOTE:</b> When selected if H240ar/H240 are used as the primary controller then RAID is not allowed.</p>
<b>HPE Insight Software</b>	<p>HP Insight Control including 1yr 24x7 support ProLiant ML/DL/BL-bundle Single Server FIO License C6N36A</p>
<b>HPE Converged Infrastructure Management Software</b>	<p><b>HPE OneView Advanced (with HPE iLO Advanced)</b></p> <p>HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic E5Y43A</p> <p><b>HPE OneView Advanced (without HPE iLO Advanced)</b></p> <p>HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU P8B31A</p>

## Configuration Information - Factory Integrated Models

### 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.

## 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>	<p>HPE DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit <span style="float: right;">764630-B21</span></p> <p><b>NOTE:</b> Required when upgrading from an 8SFF config to a 10SFF config.</p> <p><b>NOTE:</b> This option kit is not supported on the 4LFF CTO Server.</p> <p><b>NOTE:</b> This option kit cannot be used with the DVD-ROM or DVD-RW Universal Media Bay option kits.</p> <p><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.</p>
	<p>HPE DL360 Gen9 SFF DVD-RW/USB Universal Media Bay Kit <span style="float: right;">764632-B21</span></p> <p><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).</p>
	<p>HPE DL360 Gen9 SFF DVD/USB Universal Media Bay Kit <span style="float: right;">818213-B21</span></p> <p><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).</p>
	<p>HPE DL360 Gen9 SFF USB/VGA Universal Media Bay Kit <span style="float: right;">764634-B21</span></p> <p><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).</p>
	<p>HPE DL360 Gen9 High Performance Heat Sink Kit <span style="float: right;">795235-B21</span></p> <p><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.</p>
	<p>HPE DL360 Gen9 Rear Serial Port and Enablement Kit <span style="float: right;">764646-B21</span></p>
	<p>HPE DL360 Gen9 SFF Systems Insight Display Kit <span style="float: right;">764636-B21</span></p> <p><b>NOTE:</b> Adds a System Insight Display for improved diagnosis capabilities on an 8FF or 10SFF model.</p>
	<p>HPE DL360 Gen9 NVMe 2 Solid State Drive Express Bay Enablement Kit <span style="float: right;">764628-B21</span></p> <p><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.</p> <p><b>NOTE:</b> The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) will be required with this option.</p> <p><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.</p>
	<p>HPE DL360 Gen9 6 NVMe + 4 SAS/SATA Express Bay Enablement Kit <span style="float: right;">817676-B21</span></p> <p><b>NOTE:</b> This option kit provides support for up to 6 NVMe drives (drives 5-10).</p> <p><b>NOTE:</b> The PCIe card in this enablement kit can only be populated in slot1 of primary riser.</p>
	<p>HPE DL360 Gen9 LFF USB/VGA Kit <span style="float: right;">764638-B21</span></p> <p><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).</p>
	<p>HPE DL360 Gen9 LFF Systems Insight Display Kit <span style="float: right;">764640-B21</span></p> <p><b>NOTE:</b> Adds a System Insight Display for improved diagnosis capabilities on a 4LFF model.</p>
	<p>HPE DL360 Gen9 Location Discovery Services Ear Kit <span style="float: right;">764757-B21</span></p> <p><b>NOTE:</b> Requires ProLiant Location Discovery Services Infrastructure within server racks.</p>

## 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
	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
	HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit	818194-B21
	HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit	818182-B21
	HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit	818188-B21
	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
	HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit	818204-B21
	HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit	818206-B21
	<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.</b>	
<b>NOTE: A High Performance heat sink can be added to help reduce power consumption (795235-B21).</b>		

<b>HPE Memory</b>	<b>Registered DIMMs (RDIMMs) for E5-2600v4 Series</b>	
	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>	
	<b>NOTE: Mixing of DIMM types is not supported.</b>	
	<b>NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.</b>	
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
	HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
	<b>Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series</b>	
	HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit	809208-B21
	<b>NOTE: 128GB DIMMs cannot be mixed with any other size DIMMs.</b>	
	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
	<b>Registered DIMMs (RDIMMs) for E5-2600v3 Series</b>	
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21	



## Core Options

HPE 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726719-B21

HPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit 726718-B21

### Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series

HPE 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726724-B21

**NOTE:** Memory speeds will vary by processor model, please see memory section of QuickSpecs.

### HPE Persistent Memory (NVDIMM)

**NOTE:** The following memory is supported by the E5-2600v4 series Processor only.

HPE 8GB NVDIMM Single Rank x4 DDR4-2133 Module 782692-B21

**NOTE:** A maximum of 16 NVDIMMs can be supported. NVDIMMs cannot be used with LRDIMMs.

**NOTE:** NVDIMMs 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.

## 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 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 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD 861754-B21

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

## Core Options

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 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873357-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873355-B21
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873351-B21

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

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 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875326-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872390-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875313-B21
HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875311-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 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872386-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873365-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872382-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873363-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872376-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873359-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872374-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873367-B21
HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	872378-B21

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

HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	655710-B21
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### **6G SATA Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty**

## Core Options

HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861750-B21
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765455-B21
<b>6G SATA Hot Plug LFF (3.5-inch) SC 512e Hard Drives - 1yr Warranty</b>	
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
<b>6G SATA Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty</b>	
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
<b>6G SATA Hot Plug SFF (2.5-inch) SC DS Read Intensive Solid State Drives - 3yr Warranty</b>	
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	875513-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	875511-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	875509-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	877764-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06200-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877758-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877752-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877746-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877740-B21
<b>Read Intensive - 6G SATA - M.2 - Solid State Drives</b>	
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
<b>6G SATA Hot Plug SFF (2.5-inch) SC DS Mixed Use Solid State Drives - 3yr Warranty</b>	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872352-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875478-B21

## Core Options

HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872348-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875474-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872344-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875470-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875483-B21
<b>Mixed Use - 6G SATA - M.2 - Solid State Drives</b>	
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21
<b>Mixed Use - 6G SATA - M.2 - Solid State Drives</b>	
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
<b>6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use-2 Solid State Drives</b>	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07930-B21
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
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877788-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877782-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877776-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	880295-B21
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877760-B21
HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877754-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877748-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	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 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875480-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	872350-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875476-B21
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877790-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	P03691-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877784-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 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	877986-B21
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875591-B21
HPE 1TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	877984-B21
HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875589-B21
HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875587-B21
HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	878014-B21

**NOTE:** HPE NVMe drives need the enablement kit 764628-B21.

## Core Options

**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](#).

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

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](#)

HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875597-B21

HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875595-B21

HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875593-B21

### M.2 SSD

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

**NOTE:** M.2 drives go in PCIe slots and use B140i SATA controller only.

**NOTE:** M.2 supports Software RAID only.

**NOTE:** No HPE Flexible Smart Array supported.

### Hard Drive Blank Kits

HPE Large Form Factor Hard Drive Blank Kit 666986-B21

HPE Small Form Factor Hard Drive Blank Kit 666987-B21

**NOTE:** M.2 drives go in PCIe slots and use B140i SATA controller only.

**NOTE:** M.2 supports Software RAID only.

**NOTE:** No HPE Flexible Smart Array supported.

### Hard Drive Kits

HPE DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit 764630-B21

**NOTE:** Required when upgrading 8SFF config to 10SFF model. Not supported in the 4LFF models.

HPE DL360 Gen9 NVMe 2 Solid State Drive Express Bay Enablement Kit 764628-B21

**NOTE:** This option provides support for up to 2NVMe drives in SFF only. This option cannot be used with the Universal Media Bay Kit.

**NOTE:** The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) is required with the NVMe kit.

**NOTE:** The PCIe card can only be used in slot1 of primary riser or slot3 of secondary optional FH riser.

HPE DL360 Gen9 6 NVMe + 4 SAS/SATA Express Bay Enablement Kit 817676-B21

**NOTE:** Required when upgrading 8SFF config to 10SFF chassis. Not supported in the 4LFF models.

**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.

## Core Options

### 25 Gigabit Ethernet adapters

HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter

817753-B21

**NOTE:** This option provides support for up to 6 NVMe 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.

### HPE Networking

**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:

<http://www.hpe.com/servers/ProLiantNICs>

### 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

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

### 1 Gigabit Ethernet adapters

HPE Ethernet 1Gb 4-port 366T Adapter

811546-B21

HPE Ethernet 1Gb 4-port 331T Adapter

647594-B21

HPE Ethernet 1Gb 2-port 361T Adapter

652497-B21

HPE Ethernet 1Gb 2-port 332T Adapter

615732-B21

### FlexibleLOM Adapters

**NOTE:** The DL360 Gen9 ships with 4x1Gb Embedded.

**NOTE:** Only one FlexibleLOM can be added to the server as an upgradeable option.

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

HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter

727060-B21

### HPE InfiniBand 10Gb

HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter

764284-B21

HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter

764285-B21

HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter

764286-B21

### HPE InfiniBand HPE InfiniBand 100Gb

HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter

872725-B21

## Core Options

	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
	<b>HPE 100Gb 1-port with Intel Omni-Path</b>	
	HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter	829335-B21
	<b>NOTE:</b> For additional InfiniBand information: <a href="https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440">https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440</a>	
	<b>HPE 100Gb 1-port with Intel Omni-Path</b>	
	HPE DL360 Gen9 Low Profile PCIe Slot CPU2 Kit	764642-B21
	<b>NOTE:</b> 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
<b>HPE I/O Expansion Options</b>	<b>NOTE:</b> This enablement kit can support more than one Full Height/GPU card <b>NOTE:</b> This option kit requires a second CPU and will add an additional FH / ¾ Length PCIe 3.0 slot. <b>NOTE:</b> This kit includes GPU power cable and bracket; when this option kit is installed the Low Profile PCIe3.0 riser is not useable. <b>NOTE:</b> 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
	<b>HPE Flex Slot Platinum Hot-plug Power supplies</b>	
	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%. Includes a C-14 power inlet (blue) connector that can support HPE Power Discovery Services.	
<b>HPE Power Supplies</b>	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%. Includes a C-14 power inlet connector.	
	HPE 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
	<b>NOTE:</b> 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. <b>NOTE:</b> Flex Slot Platinum power supplies support power efficiency of up to 96%. <b>NOTE:</b> Also available in -48VDC and 227VAC / 380VDC power inputs, 720480 and 720484	
	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 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%. Includes a C-14 power inlet connector. <b>NOTE:</b> Flex Slot Universal power supplies support power efficiency of up to 94% and support both 277VAC / 380VDC power inputs. <b>NOTE:</b> Maximum of 2 Flex Slot power supplies per platform. <b>NOTE:</b> 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. <b>NOTE:</b> Mixing different power supplies in the same server may limit or disable some power supply	

## Core Options

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 NVIDIA Tesla P4 8GB Computational Accelerator

Q0V79A

**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 HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit (867249-B21) is required.

**NOTE:** Max of 2 cards can be ordered (Slots 1 and 3).

**NOTE:** If 2 cards are installed, then HPE DL360 Gen9 Low Profile PCIe Slot CPU2 Kit (764642-B21) is required.

### HPE Computational and Graphics Accelerators

HPE NVIDIA Quadro P4000 Graphics Accelerator

Q0V78A

HPE DL360 Gen9 GPU Cable for CPU1 Kit

766199-B21

**NOTE:** Max of 2 cards can be ordered (Slots 1 and 3). If 2 cards are installed, then HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit (867249-B21) 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 model, 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.

### HPE Insight Software

#### HPE Insight Control

HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU C6N27A

HPE Insight Control including 1yr 24x7 TSU E-LTU C6N28ABE

HPE Insight Control Upgrade from iLO Advanced including 1yr 24x7 Support E-LTU C6N38ABE

**NOTE:** Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

**NOTE:** Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24x7 HPE Software Technical Support and Update Service.

**NOTE:** Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded at: <https://www.hpe.com/info/insightmanagement>.

**NOTE:** For additional license options please see the QuickSpecs at:

<https://www.hpe.com/h20195/v2/gethtml.aspx?docname=c04123391>.

### HPE Converged Infrastructure Management Software

#### HPE OneView Advanced (with HPE iLO Advanced)

HPE OneView including 3yr 24x7 Support Physical 1-server LTU E5Y34A

HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU E5Y35AAE

#### HPE OneView Advanced (without HPE iLO Advanced)

HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU P8B24A

HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU P8B25A

HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU P8B26AAE

HPE OneView Physical Media Kit LTU E5Y37A

**NOTE:** Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.

**NOTE:** Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning.

**NOTE:** Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <http://www.hpe.com/info/hpeoneview>.

**NOTE:** Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.**NOTE:** Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <http://www.hpe.com/info/hpeoneview>.

### High Performance Clusters

#### HPE Cluster Management Utility

HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU QL803B

HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU BD476A

**NOTE:** These part numbers can be used to purchase one certificate for multiple licenses 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

**NOTE:** For additional license kits please see the [HPE Insight Cluster Management Utility QuickSpecs](#).

## Additional Options

### HPE PCIe Workload Accelerator Options

<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

**NOTE:** Please see the [HPE PCIe Workload Accelerators for ProLiant Servers QuickSpecs](#) for Technical Specifications and additional information.

### HPE Security

HPE 1U Security Bezel Kit		664918-B21
HPE Trusted Platform Module 2.0 Kit		745823-B21

**NOTE:** This option kit is supported on Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.

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

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

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

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

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

### HPE Storage Controllers

#### SAS Controllers

#### HPE Smart Array Controllers

HPE Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller		726897-B21
HPE DL360 Gen9 Smart Array P840 SAS Card with Cable Kit		766205-B21

**NOTE:** Includes the P840 Smart Array controller with 4GB integrated cache, HPE Smart Storage Battery, and associated cabling required to attach it to a 10SFF configuration.

HPE Smart Array P840ar/2GB FBWC 12Gb 2-port Internal SAS Controller		843199-B21
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**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
HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller		726736-B21
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

## Additional Options

**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.

**NOTE:** When ordering controllers, see HPE Cable Options below for required cable(s).

### 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
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.

HPE DL360 Gen9 SFF Smart Array P440/H240 SAS Cables	775927-B21
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**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
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**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
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**NOTE:** Options noted "DL360 Gen9 SFF..." are supported on the 8 SFF model only. Options noted "DL360 Gen9 LFF..." are supported on the 4 LFF model 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.

## 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 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B

## Additional Options

### 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
HPE StoreEver MSL4048 0-drive Tape Library	AK381A

**NOTE:** Please see the [HPE StoreEver MSL6480 Tape Library QuickSpecs](#) for Technical Specifications and additional information).

### HPE Disk Backup

#### HPE RDX Removable Disk Backup System

HPE RDX 4TB USB 3.0 External Disk Backup System	Q2R33A
HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A
HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A
HPE RDX 2TB USB3.0 External Disk Backup System	E7X53B
HPE RDX+ 1TB External Backup System	B7B69B
HPE RDX+ External Docking System	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/storage/storage-adapters.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 StoreFabric 84E 4-port 8Gb Fibre Channel Host Bus Adapter	E7Y63A
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

## Additional Options

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
<b>Converged Network Adapter</b>	
HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A

### HPE 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.

**NOTE:** 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 (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)

HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
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**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 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF520A
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HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A
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HPE 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
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HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
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HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF521A
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## Additional Options

HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU AF522A

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

**NOTE:** Please see the [HPE Location Discovery Services QuickSpecs](#) for information on additional options and product specifications.

#### 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 1x4 USB/PS2 KVM Console Switch AF611A

HPE KVM Console USB Interface Adapter AF628A

HPE KVM Console USB 2.0 Virtual Media CAC Interface Adapter AF629A

HPE USB Remote Access Key for G3 KVM Console Switches AF650A

HPE 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software AF618A

HPE 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software AF619A

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

#### 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

## Additional Options

### 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

##### R5000 Uninterruptible Power System (UPS)

HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A

**NOTE:** Please see the [HPE Line Interactive Single Phase UPS QuickSpecs](#) for information on additional options and product specifications.

#### HPE UPS Options

HPE R/T3000 G4 Extended Runtime Module J2R10A

HPE R/T2200 G4 Extended Runtime Module J2R09A

HPE 2U Rack/Tower UPS Shipping Kit L4Q11A

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

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

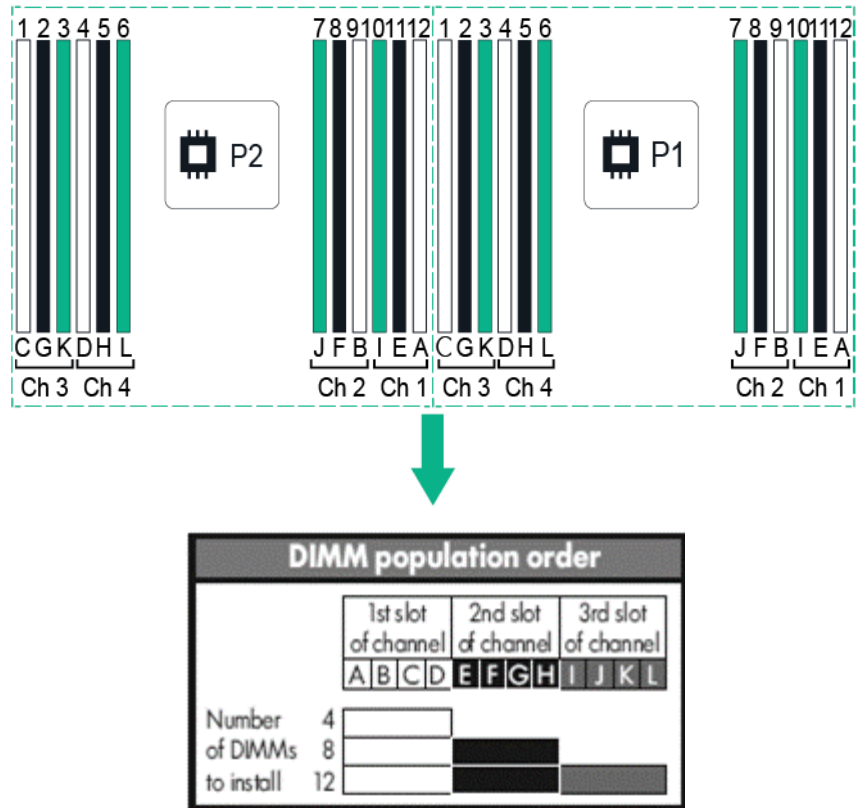
HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL360 Gen9 Service U7AM9E

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/>

## 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
SLOTS THAT CAN BE POPULATED								
24 slot servers	24	24	24	24	24	24	24	24
MAXIMUM CAPACITY (GB)								
	192	384	384	384	768	768	1536	3072
POPULATED DIMM SPEED (MT/s)								
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

## Memory

<b>DRAM Density</b>	4Gb	4Gb	4Gb	4Gb	8Gb
<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, CP2-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

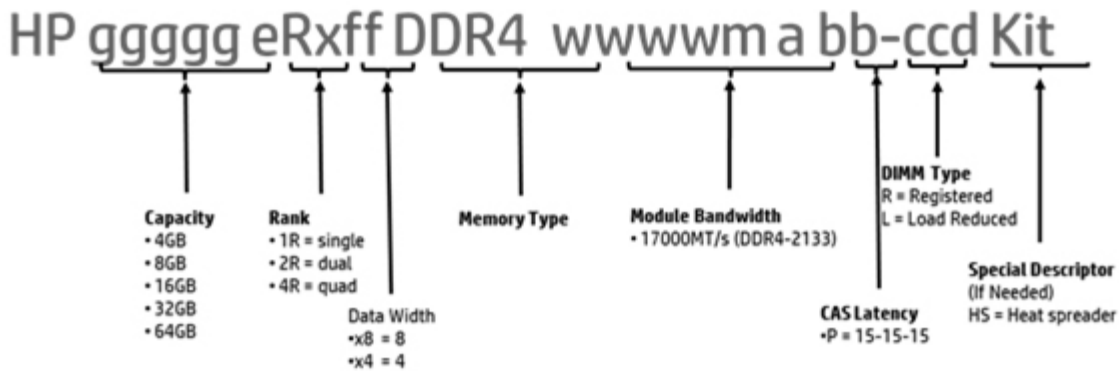
Standard and Maximum Memory Capacity (Pre-configured Models)	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
	E5-2670v3	64GB (4x16GB)	704GB (20x32GB, 4x16GB)	1536GB (24x64GB)
	E5-2660v4	64GB (4x16GB)	704GB (20x32GB, 4x16GB)	3072GB (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 Drives 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)	<p>Maximum: (all hard drives, power supply, and processor installed)</p> <p>8 SFF Chassis 33.3 lb. (15.31 kg)</p> <p><b>NOTE: Includes 2 SFF Option for a total of 10 SFF HDD.</b></p> <p>4 LFF Chassis 37 lb. (16.78kg)</p> <p>Minimum: (one hard drive, power supply, and processor installed)</p> <p>8SFF Chassis 27 lb. (12.25 kg) 4 LFF Chassis 30.36 lb. (13.77 kg)</p>
	<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)	<p>Rated Steady-State Power</p> <p>For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC)</p> <p>For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only</p> <p>For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only</p> <p>Maximum Peak Power</p> <p>For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only</p> <p>For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only</p> <p>For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only</p>
	<b>System Inlet Temperature</b>	<p>Standard Operating Support</p> <p>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.</p> <p><b>NOTE: System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).</b></p> <p>Extended Ambient Operating Support</p> <p>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</p>

## Technical Specifications

		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>
		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>
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
<b>Relative Humidity</b>	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
	Operating	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
(non-condensing)	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
<b>Altitude</b>	Operating	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
<b>Acoustic Noise</b>	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).	
	<b>Idle</b>	
	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
	<b>Operating</b>	
	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

## Technical Specifications

**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.

<b>HPE Dynamic Smart Array B140i Controller</b>	<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 Controller</b>	PCI Express, two lanes (x2) BCM5719	



## Technical Specifications

<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-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.
7-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.
5-Jun-2017	Version 31	Added	Added new Solid State Drives offering to the HPE Drives section.
		Changed	HPE InfiniBand section was revised.
8-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.
3-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.
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.

## Summary of Changes

		Removed	Obsolete SKUs were removed from the QuickSpecs.
7-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.
5-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.
1-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.
		Changed	On System Management Chipset, Embedded Management, and Server utilities were revised. Product images were updated.

## Summary of Changes

		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.
1-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.
9-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.
1-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.
9-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

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