

کاتالوگ محصول

HPE DL360 Gen9



فالنیک (ایران اچ پی)

Falnic.com

سرورهای HP به‌عنوان یکی از قابل‌اعتمادترین و پرکاربردترین پلتفرم‌های سروری در جهان، به دلیل عملکرد پایدار، امنیت بالا، قابلیت ارتقا و ابزارهای مدیریتی قدرتمند، انتخاب بسیاری از شرکت‌ها، سازمان‌ها و دیتاسنترها هستند.

آشنایی با مشخصات فنی، قابلیت‌ها و کاربرد هر مدل از سرورهای HP می‌تواند به شما کمک کند تا متناسب با نیاز کسب‌وکار خود، بهترین گزینه را انتخاب کنید.

در این کاتالوگ تلاش کرده‌ایم اطلاعاتی کاربردی از مشخصات فنی، قابلیت‌ها و ویژگی‌های مهم این محصول را در اختیار شما قرار دهیم تا بتوانید با دیدی دقیق‌تر تصمیم‌گیری کنید. اگر برای انتخاب، ارتقا یا پیاده‌سازی سرور مناسب به راهنمایی تخصصی نیاز دارید، کارشناسان فالنیک آماده‌اند تا بر اساس نیاز کسب‌وکار شما بهترین راهکار را پیشنهاد دهند. برای دریافت مشاوره رایگان کفایست با شماره [۰۲۱۸۳۶۳](tel:0218363) تماس بگیرید.

خدمات فالنیک تنها به ارائه تجهیزات محدود نمی‌شود. ما با ارائه مجموعه‌ای کامل از خدمات شامل مشاوره تخصصی قبل از خرید، تأمین تجهیزات اصلی، نصب و راه‌اندازی، پیکربندی سرور، ارتقا زیرساخت و پشتیبانی و تیم متخصص شبکه، تلاش می‌کنیم تا سازمان‌ها بتوانند زیرساختی پایدار، امن و مقیاس‌پذیر برای رشد کسب‌وکار خود ایجاد کنند.

شرکت فالنیک (ایران اچ پی) فعالیت خود را از سال ۱۳۷۴ با نام ایران HP آغاز کرد و امروز به عنوان باسابقه‌ترین و معتبرترین مرجع تخصصی [سرور hp](http://hp.com) و تجهیزات شبکه و خدمات IT در ایران شناخته می‌شود. ما با بیش از ۳۰ سال تجربه و ارائه‌ی سبدهی شامل بیش از ۱۰۰۰ محصول و خدمت، با رویکرد Total Solution صفر تا صد تجهیزات، خدمات و زیرساخت IT را با گارانتی معتبر و خدمات پس از فروش ارائه می‌کنیم تا شبکه‌ای امن، پرسرعت و پایدار را تجربه کنید.

شرکت فالنیک در طول فعالیت خود، موفق به همکاری با بیش از ۳۴ هزار مشتری حقیقی و ۹ هزار سازمان و شرکت شده است.



021-8363

خرید سرور DL360 Gen9

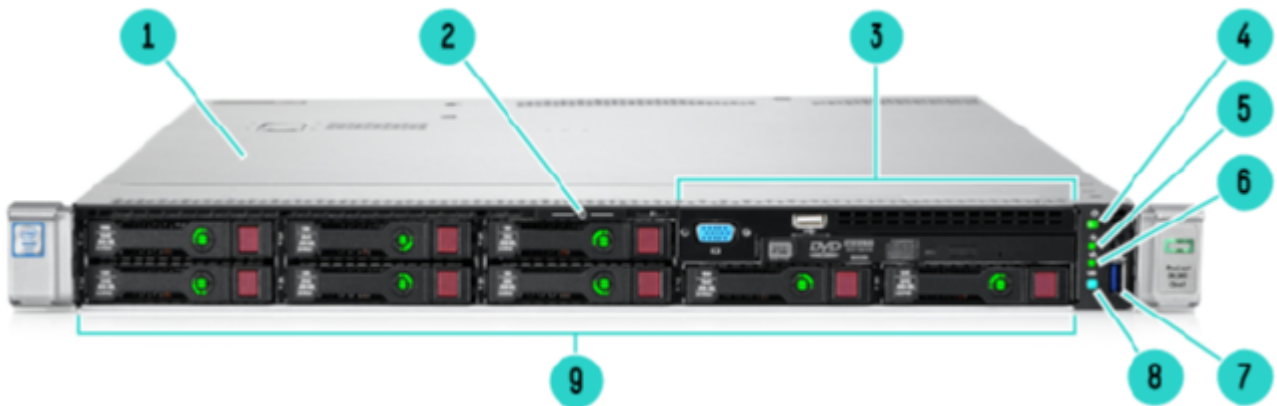
فالنیک

(ایران اچ پی)

Overview

HPE ProLiant DL360 Gen9 Server

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



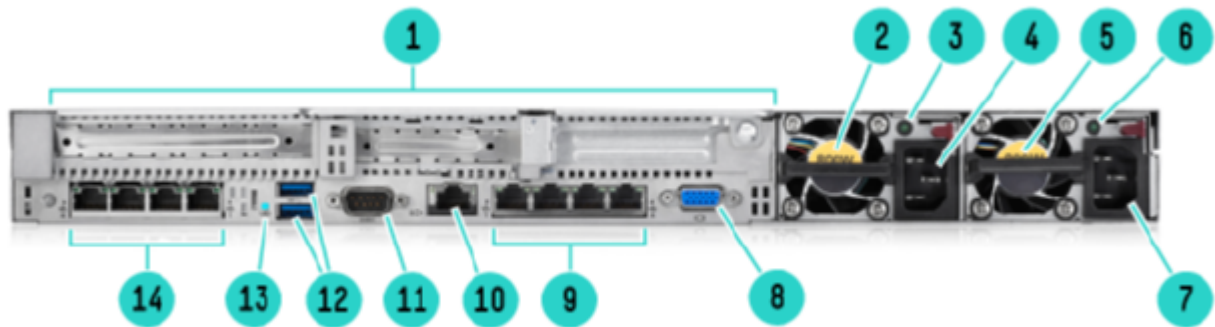
Front View

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

³**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.

⁹**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



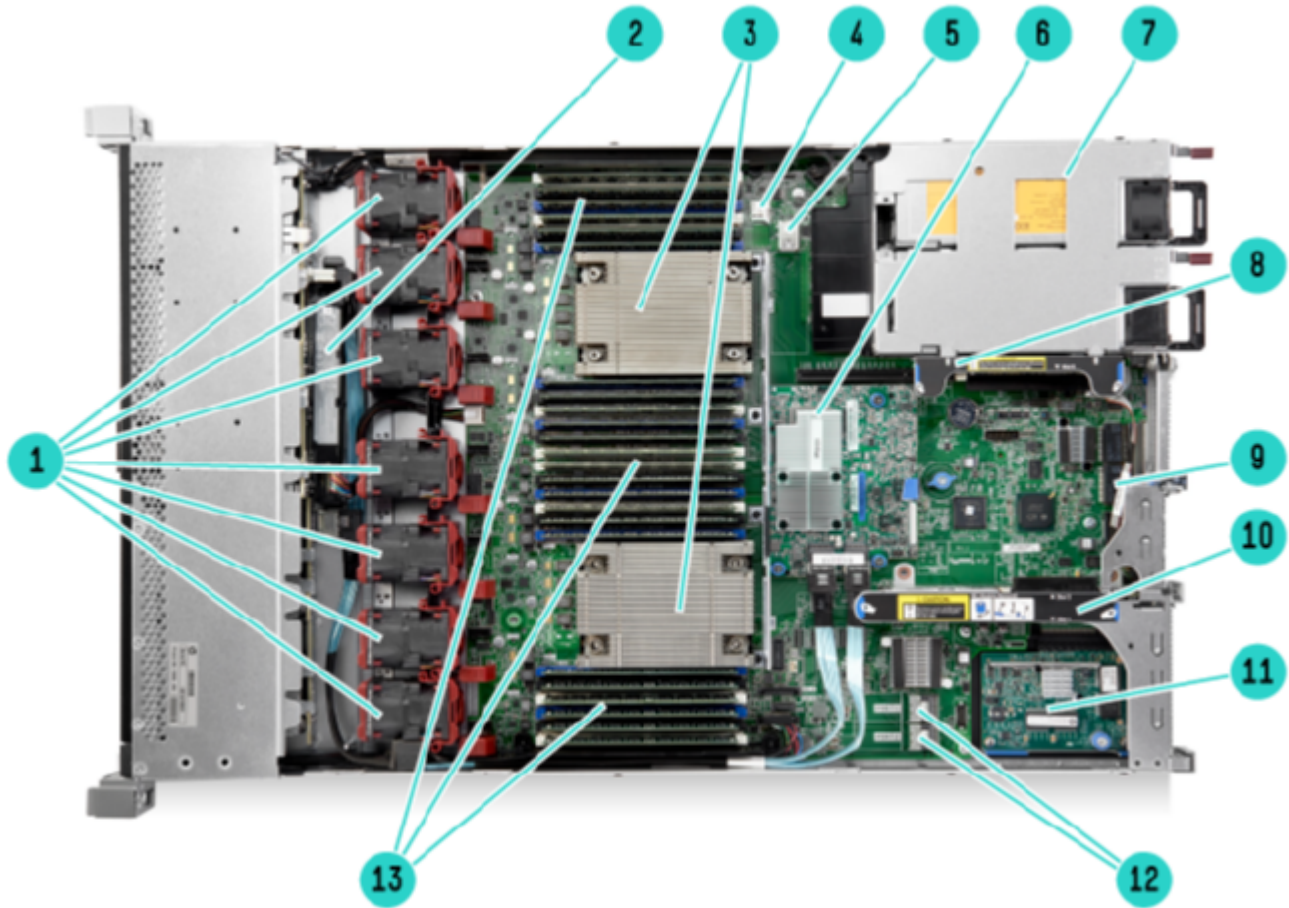
Rear View

1. PCIe 3.0 Slots 1-3¹
2. HPE Flexible Slot Power Supply Bay 2
3. Power Supply 2 Status LED
4. Power Supply 2 C13 Connection
5. HPE Flexible Slot Power Supply Bay 1
6. Power Supply 1 Status LED
7. Power Supply 1 C13 Connection
8. Video Connector
9. Embedded 4x1GbE Network Adapter
10. Dedicated iLO 4 connector
11. Serial Port Connector (Optional)
12. USB 3.0 Connectors (2)
13. Unit Identification LED
14. FlexibleLOM bay (Optional)

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

¹⁴ **NOTE:** Shown: 4x1Gbe.

Overview



Internal View

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

¹ **NOTE:** High Performance Fans also available as an option

⁴ **NOTE:** Optional Dual Micro-SD option.

⁶ **NOTE:** H240ar shown and P440ar available.

⁷ **NOTE:** Optional Micro UPS option

What's New:

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

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 |
| E5-2630v4 | 2.2GHz | 10 | 25MB | 85W | 8.0GT/s | 2133 |

Standard Features

| Model | CPU frequency | Cores | L3 Cache | Power | QPI | DDR4 Hz |
|------------|---------------|-------|----------|-------|---------|---------|
| 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 heatsink.

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

Chipset

Intel® C610 Series Chipset

Intel® E5-2600v3 Processor Family

Intel® E5-2600v4 Processor Family

NOTE: For more information regarding Intel® chipsets, please see the following URL:

<http://www.intel.com/products/server/chipsets/>

On System Management Chipset

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

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

[QuickSpecs](#).

Memory

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

Standard Features

| | |
|--------------|--|
| 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

Primary Riser

| Expansion Slots # | Technology | Bus Width | Connector Width | Bus Number | Form Factor | Notes |
|-------------------|------------|-----------|-----------------|------------|---|--------|
| 1 | PCIe 3.0 | X16 | X16 | 7 | Full-height, $\frac{3}{4}$ 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, $\frac{3}{4}$ 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 |
|--------------|---|

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 |
|---------------|--|

Standard Features

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
NOTE: HPE ProLiant DL360 Servers offer both SFF and LFF versions in CTO.
NOTE: 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.
NOTE: The 2SFF kit comes with cable for internal B140i SATA controller.
 For SAS an alternate storage controller and cable kit are required.

Maximum Internal Storage

| | Capacity | Configuration |
|----------------------------|----------|---|
| Hot Plug SFF SAS SSD | 153.0TB | 10 x 15.3TB |
| Hot Plug SFF SATA SSD | 76.8TB | 10 x 7.68TB |
| Hot Plug SFF SAS | 20.0TB | 10 x 2.0TB |
| Hot Plug SFF SATA | 20.0TB | 10 x 2.0TB |
| Hot Plug LFF SAS SSD | 6.4TB | 4 x 1.6TB |
| Hot Plug LFF SATA SSD | 15.36TB | 4 x 3.84TB |
| Hot Plug LFF SAS | 48.0TB | 4 x 12TB |
| Hot Plug LFF SATA | 48.0TB | 4 x 12TB |
| Hot Plug SFF NVMe PCIe SSD | 61.44.TB | 6 x 7.68TB NVMe + 4 x 3.84TB SFF SSD |

Power Supply

One of the following depending on model

HPE 500W Flex Slot Platinum Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HPE 800W Flex Slot Platinum Hot Plug Power Supply

NOTE: Also available in 96%.

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

HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HPE Flexible Slot Battery Backup Unit Kits

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

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen9 Performance Servers. Flex Slot power supplies are

Standard Features

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

<https://www.hpe.com/us/en/servers/server-power-supplies.html>

System Fans

One of the following depending on model

| | Non-redundant | Redundant |
|----------|---------------|-----------|
| 1P model | N/A | 5 fans |
| | Non-redundant | Redundant |
| 2P model | N/A | 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>.

Interfaces

Serial 1

NOTE: Serial Cable Option Kit: 764646-B21.

Video 1 rear (Standard)
1 front (Optional)

NOTE: Front VGA options available for 8SFF and 4LFF models.

See Core Options section of this QuickSpecs for more details.

Network RJ-45 Embedded 4x1GBE + FlexibleLOM bay
(Ethernet)

NOTE: Both the SFF and LFF chassis have an embedded 4x1GbE NIC and FlexibleLOM bay.

See HPE Networking section below for more details.

HPE iLO Remote 1 Gb Dedicated
Management Network
Port

SD Connector 1 micro SD Internal

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.

USB 3.0 5 total: 2 rear, 1 front, 2 internal

Standard Features

Operating Systems and Virtualization Software Support for ProLiant Servers

Microsoft Windows Server

Red Hat Enterprise Linux (RHEL)

SUSE Linux Enterprise Server (SLES)

Canonical Ubuntu

Oracle Linux

CentOS

VMware

Citrix XenServer

Oracle Solaris

Wind River Linux

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](#)

Upgradeability

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

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

Redundant Power Supplies

Optical Drive supported via Universal Media Bay

8SFF Chassis with:

Option Kit 764632-B21 VGA, SFF DVD-RW USB Kit

Option Kit 818213-B21 VGA, SFF DVD-ROM USB Kit

4LFF Chassis with:

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

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

Standard Features

please visit

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

Graphics

Integrated Matrox G200 video standard with 16MB of Video RAM

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

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.

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>.

Standard Features

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>.

HPE Insight Online

HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or

Standard Features

contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime.

Learn more at https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c03355402&docLocale=en_US

Security

Power-on password

Keyboard password

QuickLock, Network Server Mode

Serial interface control

Administrator's password

iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption

iLO 4 can be disabled via a Global Setting

Integrated Lights-Out can be disabled via a Global Setting

iLO Advanced supports directory services integration

TPM 2.0

UEFI

Warranty

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

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

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

Optional Features

Server Management

HPE Insight Control

HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see

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

HPE Insight Cluster Management Utility (CMU)

HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at

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

Rack and Power Infrastructure

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

Learn more at [HPE Rack and Power Infrastructure](#).

High Performance Clusters

HPE Insight Cluster Management Utility (CMU)

HPE Insight Cluster Management Utility is a Hyperscale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at

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

HPC Interconnects

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

Optional Features

Storage Software

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

Storage software that gets the job done:

- **Data Protection and Recovery Software**
- Whether you're a large enterprise or a smaller business, Hewlett Packard Enterprise data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.
- **Data Archive and Migration Software**
- Hewlett Packard Enterprise storage software enables you to comply with data retention and retrieval requirements, improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.
- **Storage Resource Management Software (SRM)**
- Hewlett Packard Enterprise storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments.
- **Data Replication Software**
- Hewlett Packard Enterprise offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting.
- **Storage Device Management Software**
- Maximize your investment in Hewlett Packard Enterprise storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.
- **HPE StoreVirtual VSA**
- Enable highly available and clustered storage in your HPE ProLiant servers with virtualized storage: Add StoreVirtual VSA to multiple servers, manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. To simplify deployment, Hewlett Packard Enterprise offers StoreVirtual Ready Nodes, pre-defined reference configurations for converged vSphere and Hyper-V virtualization solutions. You also have the option to install free 1TB-capacity StoreVirtual VSA software during server setup within Intelligent Provisioning. HPE ProLiant Gen9 servers include a 3-year limited license for this HPE software-defined storage at no extra cost. More information, instructional videos, and free management software are available at <http://www.hpe.com/storage/storevirtual>

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

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

One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. <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%¹ reduction in down time, near 100%² 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.

Service and Support

Related Services

HPE Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf>

HPE Installation and Startup Service

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

HPE Technology Services Support Credits

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

HPE Education Services

Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment.

<http://www.hpe.com/ww/learn>

HPE Support Center

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

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

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

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

Pre-configured Models

| | Base Models |
|--|---|
| HPE ProLiant DL360 Gen9 E5-2630v4 2.2GHz 10-core 1P 16GB-R P440ar 8SFF 500W PS Base SAS Server | 818208-B21 |
| Model Name | HPE ProLiant DL360 Gen9 E5-2630v4 2.2GHz 10-core 1P 16GB-R P440ar 8SFF 500W PS Base SAS Server |
| Processor | Intel® Xeon® E5-2630v4 |
| Number of Processors | One |
| Memory | 16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: With E5-2630 v4 Processor, the actual DIMM speed will operate at 2133 MHz depending on DIMM configuration. |
| Network Controller | HPE Embedded 1Gb Ethernet 4-port 331i Adapter |
| Storage Controller | HPE Flexible Smart Array P440ar/2GB |
| Hard Drive | None ship standard |
| Internal Storage | 8 SFF HDD Bays |
| Optical Drive Bay | Optional via Universal Media Bay |
| PCI-Express Slots | 2 Standard (1-FH/¾ L, 1-LP) PCIe 3.0 |
| Power Supply | (1) HPE 500W Flex Slot Platinum Power Supply |
| Fans | 5 standard hot plug fans, redundant |
| Management | iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HPE OneView (optional) |
| Form Factor | Rack (1U), HPE Easy Install Rails |
| Warranty | Server Warranty includes 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)

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

NOTE: 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.

NOTE: Factory Integrated Models must start with a CTO Server.

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

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

NOTE: 4LFF CTO Chassis includes 1 SATA Cable, option kit: 766213-B21, which attaches to the B140i controller.

NOTE: 8SFF CTO Chassis includes two 4 x Mini-SAS Cables, option kit: 766209-B21, which attaches 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

Select one or two processors from Core Options-Processor section below.

- If one processor is desired, select one xxxxxx-L21
- If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.
- Up to 2 processors supported. Mixing different processor models is not supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product

Configuration Information - Factory Integrated Models

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

Select one or more memory from Core Options-Memory section below.

- UDIMM, RDIMM, and LRDIMM are all distinct memory technologies and cannot be mixed within a server.
 - HPE memory options from previous generation servers are not qualified or warranted with Hewlett Packard Enterprise Gen9 systems. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9.
 - 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.
 - Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool
at: <http://www.hpe.com/servers/ddr4memoryconfig>
-

HPE Power Supplies

Select one or more power supplies from Core Options-Power Supplies section below.

- Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <http://www.hpe.com/info/hppoweradvisor>.
 - Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.
-

Step 3: Choose Additional Factory Integratable Options

HPE Unique Options

Select one or more Unique options from Core Options section below.

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

HPE Drives

Select one or more drives from Core Options-HPE Drives section below.

- The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.
- Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

The HPE ProLiant Gen9 Smart Storage solutions are equipped with re-designed Small Form Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HPE Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove."

HPE FlexibleLOM

Select a FlexibleLOM from Core Options-Networking section below.

- Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed
-

Configuration Information - Factory Integrated Models

from the original configuration after the server is shipped.

- For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
 - Please see the QuickSpecs for Technical Specifications and additional information:
<http://www.hpe.com/servers/ProLiantNICs>.
-

HPE Networking

Select a standup NIC adapter from Core Options-Networking section below.

- Please see the QuickSpecs for Technical Specifications and additional information:
<https://www.hpe.com/us/en/product-catalog/servers/adapters.hits-12.html>.
 - These options are upgradeable and can be changed from the original configuration after the server is shipped.
 - For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
-

HPE Storage Controllers

Select one or more Storage options from Additional Options section below.

- The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.
 - This section may contain FIO options, please see HPE Storage Controllers section below.
 - FIO indicates that this option is only available as a factory installable option.
-

HPE Graphics Options

Select one or more graphics adapters from Additional Options section below.

- Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located at:
<http://www.hpe.com/info/hppoweradvisor>.
 - This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.
-

HPE I/O Expansion Options

Select one or more Riser Kit options from Core Options section below.

- To take advantage of the additional PCI slot upgrade, the second processor must be installed.
- This section may contain FIO options, please see HPE I/O Expansion Options section below.

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

HPE Cooling Options

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

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

HPE Rail Kits

Select one type of rail kit from Additional Options section below.

- Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server.
 - To assist in the installation of the server into the rack, an optional installation tool is available by contacting your local services representative (p/n 695539-001).
-

Configuration Information - Factory Integrated Models

- See Hewlett Packard Enterprise Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.

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.

HPE Unique Options

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

NOTE: Required when upgrading from an 8SFF config to a 10SFF config.

This option kit is not supported on the 4LFF Chassis.

This option kit cannot be used with the DVD-ROM or DVD-RW Universal Media Bay option kits.

NOTE: This kit contains a cable to attach the 2 drives to the internal B140i SATA controller.

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

HPE DL360 Gen9 SFF DVD-RW/USB Universal Media Bay Kit 764632-B21

NOTE: DVD-RW, USB 2.0 and VGA included.

This option kit cannot be used with the 2 SFF SAS/SATA option kit (764630-B21).

HPE DL360 Gen9 SFF DVD/USB Universal Media Bay Kit 818213-B21

NOTE: DVD ROM, USB 2.0 and VGA included.

This option kit cannot be used with the 2 SFF SAS/SATA option kit (764630-B21).

HPE DL360 Gen9 SFF USB/VGA Universal Media Bay Kit 764634-B21

NOTE: Adds front VGA and USB 2.0 ports to SFF chassis.

This option kit cannot be used with the 2 SFF SAS/SATA option kit (764630-B21).

HPE DL360 Gen9 High Performance Heat Sink Kit 795235-B21

NOTE: These are included in some higher Watt processors (see processor section), but may also be added to lower power processors to reduce fan power consumption.

HPE DL360 Gen9 Rear Serial Port and Enablement Kit 764646-B21

HPE DL360 Gen9 SFF Systems Insight Display Kit 764636-B21

NOTE: Adds a System Insight Display for improved diagnosis capabilities on an 8FF or 10SFF model.

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

NOTE: This option provides support for up to 2 NVMe SFF drives.

This option cannot be used with the Universal Media Bay Kit.

NOTE: The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) will be required with this option.

NOTE: The PCIe card in this enablement kit can only be populated in slot1 of primary riser or in slot3 of secondary optional FH riser.

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

NOTE: This option kit provides support for up to 6 NVMe drives (drives 5-10).

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

HPE DL360 Gen9 LFF USB/VGA Kit 764638-B21

Core Options

NOTE: Adds front VGA and USB 2.0 ports to LFF chassis.
This option kit cannot be used with the 2 SFF SAS/SATA Option Kit (764630-B21).

HPE DL360 Gen9 LFF Systems Insight Display Kit 764640-B21

NOTE: Adds a System Insight Display for improved diagnosis capabilities on a 4LFF model.

HPE DL360 Gen9 Location Discovery Services Ear Kit 764757-B21

NOTE: Requires ProLiant Location Discovery Services Infrastructure within server racks.

HPE Legacy FIO Mode Setting 758959-B22

NOTE: UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.

HPE Processors

E5-2600v4 series Processors

HPE DL360 Gen9 Intel Xeon E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit 818172-B21

HPE DL360 Gen9 Intel Xeon E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit 818172-L21

HPE DL360 Gen9 Intel Xeon E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit 818176-B21

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) Processor Kit 818178-B21

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) Processor Kit 818180-B21

HPE DL360 Gen9 Intel Xeon E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit 818180-L21

HPE DL360 Gen9 Intel Xeon E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit 818184-B21

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) Processor Kit 818186-B21

HPE DL360 Gen9 Intel Xeon E5-2690v4 (2.6GHz/14-core/35MB/135W) FIO Processor Kit 818186-L21

HPE DL360 Gen9 Intel Xeon E5-2667v4 (3.2GHz/8-core/25MB/135W) Processor Kit 818196-B21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2667v4 (3.2GHz/8-core/25MB/135W) FIO Processor Kit 818196-L21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit 818174-B21

HPE DL360 Gen9 Intel Xeon E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit 818174-L21

HPE DL360 Gen9 Intel Xeon E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit 818166-B21

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) Processor Kit 818168-B21

NOTE: This processor does not support Hyper-Threading.

HPE DL360 Gen9 Intel Xeon E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit 818168-L21

NOTE: This processor does not support Hyper-Threading.

HPE DL360 Gen9 Intel Xeon E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit 818170-B21

NOTE: 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

Core Options

NOTE: This processor does not support Hyper-Threading.

HPE DL360 Gen9 Intel Xeon E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit 818190-B21

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) Processor Kit 818192-B21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2637v4 (3.5GHz/4-core/15MB/135W) FIO Processor Kit 818192-L21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit 818194-B21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) FIO Processor Kit 818194-L21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit 818182-B21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) FIO Processor Kit 818182-L21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit 818188-B21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) FIO Processor Kit 818188-L21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit 818198-B21

HPE DL360 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit 818198-L21

HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit 818202-B21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) FIO Processor Kit 818202-L21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit 818204-B21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Processor Kit 818204-L21

NOTE: Ships with a High Performance Heatsink

HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit 818206-B21

NOTE: Ships with a High Performance Heatsink

Core Options

HPE DL360 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) FIO Processor Kit 818206-L21

NOTE: Ships with a High Performance Heatsink

NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported.

NOTE: All processors support Hyper-Threading *except* E5-2609 v4/v3 and E5-2603 v4/v3.

NOTE: Processors consuming up to 120w ship with standard heatsink.

NOTE: Processors consuming over 120w ship with a High Performance heatsink as standard *except* the Intel Xeon E5-2690v4.

NOTE: A High Performance heatsink can be added to help reduce power consumption (795235-B21).

HPE Memory

Registered DIMMs (RDIMMs) for E5-2600v4 Series

HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805351-B21

HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805349-B21

HPE 16GB (1x16GB) Dual Rank x8 DDR4-2400 CAS-17-17-17 Registered Smart Memory Kit P00423-B21

NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MHz.

NOTE: Mixing of DIMM types is not supported.

NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.

HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805347-B21

Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series

HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit 809208-B21

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

HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit 805358-B21

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

Registered DIMMs (RDIMMs) for E5-2600v3 Series

HPE 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit 728629-B21

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

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.

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

Core Options

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|---|------------|
| 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

| | |
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| 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

| | |
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| 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

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| HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD | 832514-B21 |
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12G SAS 7.2K Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty

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| 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

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| HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 872481-B21 |
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12G SAS Hot Plug LFF (3.5-inch) SC 512e Hard Drives- 3yr Warranty

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| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861754-B21 |
| HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD | 819201-B21 |
| HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | 857644-B21 |
| HPE 14TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | P09163-B21 |

Core Options

HPE 14TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD P09153-B21

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

HPE 600GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD P04695-B21

HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD P04693-B21

12G SAS Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty

HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872487-B21

HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872487-B21

HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872485-B21

HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872485-B21

HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 846514-B21

HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 846524-B21

SSD Selection

To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located here:

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

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

HPE 3.2TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04547-B21

HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04545-B21

HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09102-B21

HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09100-B21

HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04543-B21

HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09098-B21

HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04541-B21

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

HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04523-B21

HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04521-B21

HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04519-B21

HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04517-B21

HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06592-B21

Core Options

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| HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P06590-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P06588-B21 |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P06586-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P06584-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872394-B21 |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872392-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872390-B21 |
| HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 870148-B21 |
| HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 870144-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875330-B21 |
| 12G SAS Hot Plug SFF (2.5-inch) SC Mixed Use-3 Solid State Drives - 3yr Warranty | |
| HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P09096-B21 |
| HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P09094-B21 |
| HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P09092-B21 |
| HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P09090-B21 |
| HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P09088-B21 |
| HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04539-B21 |
| HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04537-B21 |
| HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04533-B21 |
| HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04527-B21 |
| HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04525-B21 |
| 12G SAS Mixed Use LFF (3.5in) | |
| HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | P04529-B21 |
| 6G SATA Hot Plug SFF (2.5 inch) SC Midline Hard Drives - 1yr Warranty | |
| HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD | 655710-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty | |
| HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD | 765455-B21 |
| 6G SATA Hot Plug LFF (3.5-inch) SC 512e Hard Drives - 1yr Warranty | |
| HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD | 819203-B21 |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861750-B21 |
| HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | 881785-B21 |

Core Options

HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD 857648-B21

6G SATA Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty

HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872491-B21

HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872491-B21

HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD 861691-B21

HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872489-B21

HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD 872489-B21

6G SATA Hot Plug SFF (2.5-inch) SC DS Read Intensive Solid State Drives - 3yr Warranty

HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04482-B21

HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04480-B21

HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04478-B21

HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04476-B21

HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04474-B21

HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04570-B21

HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06198-B21

HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04566-B21

HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04564-B21

HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06196-B21

HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04560-B21

HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06194-B21

HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 875503-B21

HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04556-B21

HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06200-B21

Read Intensive - 6G SATA - M.2 - Solid State Drives

HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD 875498-B21

HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD 875500-B21

6G SATA Hot Plug SFF (2.5-inch) SC DS Mixed Use Solid State Drives - 3yr Warranty

HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 872344-B21

Mixed Use - 6G SATA - M.2 - Solid State Drives

Core Options

HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD 875488-B21

Mixed Use - 6G SATA - M.2 - Solid State Drives

HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD 875492-B21

HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD 875490-B21

6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use-2 Solid State Drives

HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09722-B21

HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09716-B21

HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09712-B21

HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P07930-B21

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

6G SATA Read Intensive LFF (3.5in)

HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09693-B21

HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09689-B21

HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09687-B21

6G SATA Hot Plug LFF (3.5-inch) SCC DS Mixed Use Solid State Drives - 3yr Warranty

HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09724-B21

HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P09718-B21

HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P07932-B21

HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P07928-B21

HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD P07924-B21

HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 875476-B21

HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 872346-B21

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

HPE 7.68TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD P10218-B21

HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD P10216-B21

HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD P10214-B21

HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 877986-B21

HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 878014-B21

HPE 1.6TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card P10264-B21

HPE 3.2TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card P10266-B21

HPE 6.4TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card P10268-B21

Core Options

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| HPE 15.36TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P07198-B21 |
| HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05976-B21 |
| HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05980-B21 |
| HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05986-B21 |
| HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05994-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05924-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05928-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05932-B21 |
| HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05938-B21 |
| HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P05946-B21 |
| HPE 960GB SAS 12G Mixed Use SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10448-B21 |
| HPE 960GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10450-B21 |
| HPE 1.92TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10454-B21 |

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

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|--|------------|
| HPE 1.92TB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10456-B21 |
| HPE 3.84TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10460-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10440-B21 |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10442-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10444-B21 |
| HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10446-B21 |

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

NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio using the Operating System inbox drivers.

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

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

| | |
|---|------------|
| HPE 6.4TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P10226-B21 |
|---|------------|

Core Options

| | |
|---|------------|
| HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P10224-B21 |
| HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P10222-B21 |
| HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 877998-B21 |
| HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 877994-B21 |

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

NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio using the Operating System inbox drivers.

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

M.2 SSD

| | |
|--|------------|
| HPE Universal SATA HHL 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 chassis. Not supported in the 4LFF Chassis.

| | |
|--|------------|
| 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.

Core Options

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 Chassis.

NOTE: This option provides support for up to 6NVMe drives in SFF only. Adding NVMe drives replaces support for Universal Media Bay.

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

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

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

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

25 Gigabit Ethernet adapters

HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter 817753-B21

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.

HPE Networking

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

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

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

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

NOTE: Please see NIC QuickSpecs for Technical Specifications and additional information:

<https://www.hpe.com/us/en/product-catalog/servers/adapters.hits-12.html>.

1 Gigabit Ethernet adapters

HPE Ethernet 1Gb 4-port 366T Adapter 811546-B21

HPE Ethernet 1Gb 4-port 331T Adapter 647594-B21

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

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

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

NOTE: Please see NIC QuickSpecs for Technical Specifications and additional information:

<https://www.hpe.com/us/en/product-catalog/servers/adapters.hits-12.html>

HPE Ethernet 1Gb 2-port 361T Adapter 652497-B21

HPE Ethernet 1Gb 2-port 332T Adapter 615732-B21

FlexibleLOM Adapters

HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter 817749-B21

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter 727054-B21

Core Options

| | |
|--|------------|
| HPE FlexFabric 10Gb 4-port 536FLR-T Adapter | 764302-B21 |
| HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter | 700751-B21 |
| HPE FlexFabric 10Gb 2-port 533FLR-T Adapter | 700759-B21 |
| HPE Ethernet 1Gb 4-port 366FLR Adapter | 665240-B21 |
| HPE Ethernet 1Gb 4-port 331FLR Adapter | 629135-B22 |
| HPE Ethernet 10Gb 2-port 561FLR-T Adapter | 700699-B21 |
| HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter | 665243-B21 |
| HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter | 727060-B21 |
| HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter | 779799-B21 |

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

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

| | |
|--|------------|
| HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter | 727060-B21 |
|--|------------|

HPE InfiniBand 10Gb

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

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

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

| | |
|---|------------|
| HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter | 764285-B21 |
|---|------------|

HPE InfiniBand

HPE InfiniBand 100Gb

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

HPE 100Gb 1-port with Intel Omni-Path

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

NOTE: For additional InfiniBand information:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440>.

HPE 100Gb 1-port with Intel Omni-Path

| | |
|---|------------|
| HPE DL360 Gen9 Low Profile PCIe Slot CPU2 Kit | 764642-B21 |
|---|------------|

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

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

HPE I/O Expansion Options

NOTE: This enablement kit can support more than one Full Height/GPU card

NOTE: This option kit requires a second CPU and will add an additional FH / ¾ Length PCIe 3.0 slot.

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

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

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

Core Options

HPE Power Supplies

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

NOTE: Support for HPE Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HPE Server power supplies can be found at:

<https://www.hpe.com/us/en/servers/server-power-supplies.html>

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

HPE Computation and Graphics Accelerators

HPE NVIDIA Quadro P4000 Graphics Accelerator Q0V78A

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).

Core Options

NOTE: If 2 cards are installed, then 867249-B21 (HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit) is required.

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

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

HPE DL360 Gen9 GPU Cable for CPU1 Kit

766199-B21

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

NOTE: If 2 cards are installed, then 867249-B21 (HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit) is required.

NOTE: 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: High Performance Fan Kit is required for some supported configurations (10SFF Chassis, 160W CPUs or higher, LRDIMMs, NVMe SSDs) and extended ambient operating temperatures above 35° C. Qualifications for extended ambient configurations are at: <http://www.hpe.com/servers/ashrae>.

NOTE: High performance fan kit increases power consumption. To reduce power consumption use high performance heatsinks (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 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 for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU | E5Y43A |

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 w/o iLO including 3yr 24x7 Support 1-server FIO LTU | P8B31A |
| 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](#).

HPE PCIe Workload Accelerator Options

HPE Mixed Use PCIe Workload Accelerator

| | |
|---|------------|
| HPE 1.6TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 877825-B21 |
| HPE 3.2TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card | 877827-B21 |

Additional Options

HPE 750GB PCIe x4 Lanes Write Intensive HDDL 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

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 chassis configuration.

HPE Smart Array P840ar/2GB FBWC 12Gb 2-port Internal SAS Controller 843199-B21

NOTE: The Smart Array P840ar SAS controller will require the P840ar Cable Kit 843234-B21.

HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller 726821-B21

HPE Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller 761872-B21

NOTE: The P440/4GB will support up to 8 internal SAS/SATA drives and consume 1 PCIe slot. Also includes the HPE Smart Storage Battery.

HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller 726736-B21

HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller 749974-B21

NOTE: The P440ar/2GB will support up to 8 internal SAS/SATA drives without using a PCIe slot.

Additional Options

| | |
|---|------------|
| HPE Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller | 726903-B21 |
| HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller | 726825-B21 |
| HPE DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations | 726740-B21 |

NOTE: This controller is specific for the DL360 Gen9 with 2 GPGPUs installed. It has a unique heatsink that will allow the 2nd GPU to fit.

NOTE: When ordering controllers, see HPE Cable Options below for required cable(s). FIO indicates factory integrated option only via CTO.

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 H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter | 749976-B21 |

NOTE: The H240ar will support up to 8 internal SAS/SATA drives without using a PCIe slot.

| | |
|--|------------|
| HPE H240 12Gb 2-ports Int Smart Host Bus Adapter | 726907-B21 |
| HPE H240 12Gb 2-ports Int FIO Smart Host Bus Adapter | 761873-B21 |

NOTE: When ordering controllers, see HPE Cable Options below for required cable(s). FIO indicates factory integrated option only via CTO.

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 Chassis.

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

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

| | |
|--|------------|
| HPE DL360 Gen9 SFF Smart Array P440ar/H240ar SAS Cable | 766209-B21 |
| HPE DL360 Gen9 LFF Smart Array P440/H240 SAS Cables | 775929-B21 |

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

| | |
|--|------------|
| HPE DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable | 766211-B21 |
|--|------------|

NOTE: Required for an upgrade from a B140i SATA controller to a HPE Smart HBA 240ar or HPE Smart Array P440ar.

| | |
|--|------------|
| HPE DL360 Gen9 LFF Embedded SATA Cable | 766213-B21 |
|--|------------|

NOTE: Options noted "DL360 Gen9 SFF..." are supported on the 8 SFF Chassis only. Options noted "DL360 Gen9 LFF..." are supported on the 4 LFF Chassis 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 |

Additional Options

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 MSL 1/8 G2 0-drive Tape Autoloader | R1R75A |
| HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive | EH970A |
| HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive | EH958B |

HPE Tape Storage Systems

HPE StoreEver MSL6480

| | |
|--|--------|
| HPE StoreEver MSL6480 Scaleable Expansion Module | QU626A |
| HPE StoreEver MSL6480 Scalable Base Module | QU625A |
| HPE StoreEver MSL2024 0-drive Tape Library | AK379A |

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

HPE Disk Backup

HPE RDX Removable Disk Backup System

| | |
|---|--------|
| HPE RDX 4TB External Disk Backup System | Q2R33A |
| HPE RDX 3TB Internal Disk Backup System | P9L71A |
| HPE RDX 3TB External Disk Backup System | P9L72A |
| HPE RDX 2TB External Disk Backup System | E7X53B |
| HPE RDX 1TB External Disk Backup System | B7B69B |
| HPE RDX External Docking Station | C8S07B |
| HPE D3700 Enclosure | QW967A |
| HPE D3600 Enclosure | QW968A |

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

Additional Options

NOTE: The following is a list of all Fibre Channel Host Bus Adapters for Windows and Linux. For detailed compatibility information please see: <https://www.hpe.com/us/en/product-catalog/servers/adapters.hits-12.html>

Emulex Fibre Channel HBAs

| | |
|---|--------|
| HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter | Q0L11A |
| HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter | Q0L12A |
| HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter | Q0L13A |
| HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter | Q0L14A |
| HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter | C8R39A |
| HPE StoreFabric SN1100E 4-port 16Gb Fibre Channel Host Bus Adapter | P9D99A |
| HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter | C8R38A |
| HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AJ763B |
| HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter | AJ762B |

QLogic Fibre Channel HBAs

| | |
|---|--------|
| HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter | P9M75A |
| HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter | P9M76A |
| HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter | P9D93A |
| HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter | P9D94A |
| HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter | QW971A |
| HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter | QW972A |
| HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter | P9D91A |
| HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AJ764A |
| HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter | AK344A |

Converged Network Adapter

| | |
|---|--------|
| HPE StoreFabric CN1200E 10Gb Converged Network Adapter | E7Y06A |
| HPE StoreFabric CN1100R Dual Port Converged Network Adapter | QW990A |
| HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter | N3U51A |
| HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter | N3U52A |

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

Additional Options

the option to purchase their server without a rail kit.

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

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

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

HPE Power Distribution Units (PDUs)

HPE Basic Power Distribution Units (PDU)

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

HPE Metered Power Distribution Units (PDU)

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

HPE Intelligent Power Distribution Unit (PDU)

| | |
|---|--------|
| HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU | AF535A |
|---|--------|

| | |
|--|--------|
| HPE 5xC13 Intelligent PDU Extension Bar G2 Kit | AF547A |
|--|--------|

| | |
|--|--------|
| HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar | AF528A |
|--|--------|

| | |
|--|--------|
| HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU | AF523A |
|--|--------|

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

[HPE Metered and Switched Power Distribution Units \(PDU\)](#)

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

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

HPE Rack Mount Consoles, KVM Switches, and Keyboards

HPE Location Discovery Services

HPE Rack Mount Consoles

| | |
|---|--------|
| HPE LCD8500 1U US Rackmount Console Kit | AF630A |
|---|--------|

| | |
|---|--------|
| HPE LCD8500 1U JP Rackmount Console Kit | AF642A |
|---|--------|

| | |
|---|--------|
| HPE LCD8500 1U INTL Rackmount Console Kit | AF644A |
|---|--------|

| | |
|---|--------|
| HPE LCD8500 1U UK Rackmount Console Kit | AF631A |
|---|--------|

| | |
|---|--------|
| HPE LCD8500 1U DE Rackmount Console Kit | AF632A |
|---|--------|

| | |
|---|--------|
| HPE LCD8500 1U FR Rackmount Console Kit | AF633A |
|---|--------|

| | |
|---|--------|
| HPE LCD8500 1U RU Rackmount Console Kit | AF643A |
|---|--------|

| | |
|---|--------|
| HPE LCD8500 1U US TAA Rackmount Console Kit | AF645A |
|---|--------|

Additional Options

HPE KVM Switches

| | |
|--|--------|
| HPE 0x1x8 G3 KVM Console Switch | AF651A |
| HPE 0x2x16 G3 KVM Console Switch | AF652A |
| HPE KVM Console USB Interface Adapter | AF628A |
| HPE KVM Console USB 2.0 Virtual Media CAC Interface Adapter | AF629A |
| HPE USB Remote Access Key for G3 KVM Console Switches | AF650A |
| HPE 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software | AF620A |
| HPE 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software | AF621A |
| HPE 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software | AF622A |

NOTE: To learn more, please visit the [HPE KVM Switches web page](#).

HPE USB Keyboard and Mouse

| | |
|-------------------------------|------------|
| HPE USB US Keyboard/Mouse Kit | 631341-B21 |
| HPE USB UK Keyboard/Mouse Kit | 631344-B21 |
| HPE USB FR Keyboard/Mouse Kit | 631346-B21 |
| HPE USB ES Keyboard/Mouse Kit | 631348-B21 |
| HPE USB DE Keyboard/Mouse Kit | 631358-B21 |
| HPE USB JP Keyboard/Mouse Kit | 631360-B21 |
| HPE USB IT Keyboard/Mouse Kit | 631362-B21 |
| HPE USB CN Keyboard/Mouse Kit | 631364-B21 |
| HPE USB AE Keyboard/Mouse Kit | 638212-B21 |
| HPE USB RU Keyboard/Mouse Kit | 638214-B21 |
| HPE USB IN Keyboard/Mouse Kit | 672097-D63 |

HPE USB Keyboard and Mouse

| | |
|------------------------------------|------------|
| HPE USB AP/INTL Keyboard/Mouse Kit | 672097-373 |
| HPE USB INTL Keyboard/Mouse Kit | 672097-B33 |
| HPE USB PT Keyboard/Mouse Kit | 672097-133 |
| HPE USB TR Keyboard/Mouse Kit | 672097-143 |
| HPE USB CZ Keyboard/Mouse Kit | 672097-223 |
| HPE USB FI Keyboard/Mouse Kit | 672097-353 |
| HPE USB SE Keyboard/Mouse Kit | 672097-103 |
| HPE USB CH Keyboard/Mouse Kit | 672097-113 |
| HPE USB KR Keyboard/Mouse Kit | 672097-KD3 |

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 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 |

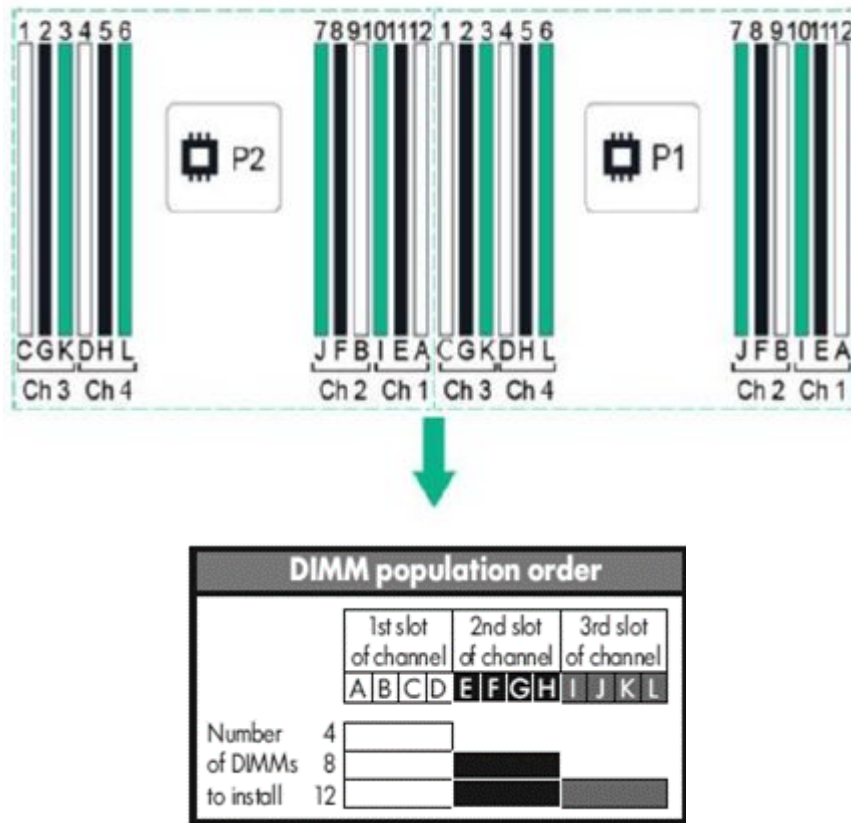
Proactive Care

| | |
|--|--------|
| 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.

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

Memory

| 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.

Memory

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

| Memory Bandwidth and Capacity | | | | | |
|------------------------------------|---------------------------|------------------|------------------|------------------------|------------------|
| [DIMM Type] | Registered DIMMs (RDIMMs) | | | Load Reduced (LRDIMMs) | |
| HPE SKU P/N | 726717-B21 | 726718-B21 | 726719-B21 | 728629-B21 | 726724-B21 |
| DIMM Rank | Single Rank | Single Rank | Dual Rank | Dual Rank | Quad Rank |
| DIMM Capacity | 4GB | 8GB | 16GB | 32GB | 64GB |
| Voltage | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V |
| DRAM Depth [bit] | 512M | 1G | 1G | 1G | 2G |
| DRAM Width [bit] | x8 | x4 | x4 | x4 | x4 |
| DRAM Density | 4Gb | 4Gb | 4Gb | 4Gb | 8Gb |
| CAS Latency | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 |
| DIMM Native Speed (MT/s) | 2133 | 2133 | 2133 | 2133 | 2133 |
| SLOTS THAT CAN BE POPULATED | | | | | |
| 24 slot servers | 24 | 24 | 24 | 24 | 24 |
| MAXIMUM CAPACITY (GB) | | | | | |
| | 96 | 192 | 384 | 768 | 1536 |
| POPULATED DIMM SPEED (MT/s) | | | | | |
| 1 DIMM Per Channel | 2133 | 2133 | 2133 | 2133 | 2133 |
| 2 DIMM Per Channel | 2133 | 2133 | 2133 | 2133 | 2133 |
| 3 DIMM Per Channel | 1600 | 1600 | 1600 | 1600 | 1866 |

DIMM slot and configuration diagram

Basic memory slot & population diagram

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

Memory

| 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 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)

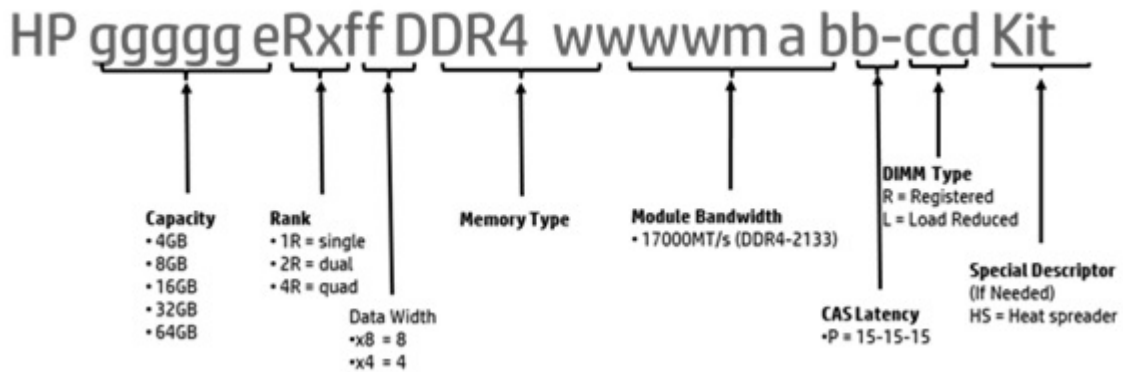
Memory

| 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) |

DDR4 memory options part number decoder

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

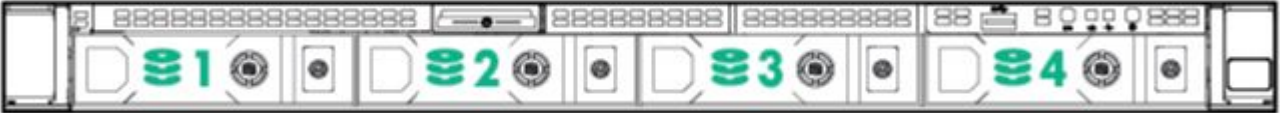
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



Storage



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



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



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

Technical Specifications

System Unit

Dimensions 8 SFF and 10 SFF 1.7 x 17.1 x 27.5 inches (4.32 x 43.47 x 69.85 cm)
 4 LFF - 1.7 x 17.1 x 29.5 inches (4.32 x 43.46 x 75.0 cm)

Weight
 (approximate)

Maximum: 8 SFF Chassis 33.3 lb. (15.31 kg)
 (all hard drives, power supply, and processor installed) **NOTE: Includes 2 SFF Option for a total of 10 SFF HDD.**
 4 LFF Chassis 37 lb. (16.78kg)

Minimum: 8SFF Chassis 27 lb. (12.25 kg)
 (one hard drive, power supply, and processor installed) 4 LFF Chassis 30.36 lb. (13.77 kg)

Input Requirements
 (per power supply)

Rated Line Voltage 100 to 120 VAC
 200 to 240 VAC

BTU Rating

Maximum For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only
 For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only

Power Supply Output
 (per power supply)

Rated Steady-State Power For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC)
 For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only
 For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only

Maximum Peak Power For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only
 For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only
 For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only

Technical Specifications

| | | |
|--|------------------------------------|--|
| System Inlet Temperature | Standard | 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. |
| | Operating Support | <p>NOTE: System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).</p> |
| | Extended Ambient Operating Support | <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 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hpe.com/servers/ashrae</p> <p>For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hpe.com/servers/ashrae</p> <p>System performance may be reduced if operating in the extended ambient operating range or with a fan fault.</p> |
| | Non-operating | -30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr). |
| Relative Humidity (non-condensing) | 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-operating | 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing. |
| Altitude | Operating | 3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min). |
| | Non-operating | 9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min). |

Technical Specifications

Acoustic Noise

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

Idle

| | |
|------|--|
| LWAd | (1P non-redundant) 4.6 A Average Bystander (2P redundant) 5.5 A Average Bystander |
| LpAm | (1P non-redundant) 29 dBA (2P redundant) 37 dBA |

Operating

| | |
|------|--|
| LWAd | (1P non-redundant) 4.6 A Average Bystander (2P redundant) 6.2 C Average Bystander |
| LpAm | (1P non-redundant) 30 dBA (2P redundant) 46 dBA |

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

NOTE: 2P Configuration tested included two Intel E5-2650 v3, 2.6GHz processors, one 500GB SAS HDD, seven standard hot plug fans, two 16GB DDR4 RDIMM's 2133MHz, one 500W power supply, P440ar HDD controller PCI card with 2GB cache.

NOTE: Values are subject to change without notification and are for reference only.

NOTE: Performance of system, options, and ancillary equipment will vary depending on the system configuration.

NOTE: Levels presented do not account for non-Hewlett Packard Enterprise installed hardware.

Emissions Classification (EMC)

| | |
|---------------------|---|
| FCC Rating | Class A |
| Normative Standards | CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1 |

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

HPE Dynamic Smart Array B140i Controller

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|----------------------------------|----------|
| Number of PCI links | Four |
| PCI link rate | 4Gb/s |
| Storage protocol support | SATA |
| SAS/SATA peak data transfer rate | 6Gb/s |
| Number of SAS/SATA links | 10 links |

Technical Specifications

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|--|--------------------------------|
| SAS/SATA connectivity | 2x4 connectors; 2x1 connectors |
| Expander support | No |
| Drives supported (max) | Up to 10 Internal Drives |
| RAID support | 0, 1, 10, 5 SATA |
| Software management | HPE SSA, SMH, SIM |
| Warranty | Server warranty |
| HPE Secure Encryption license | Not Supported |
| HPE SmartCache License | Not Supported |
| HPE Smart Storage Administrator | Supported |

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

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

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

<http://www.hpe.com/recycle>

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

Summary of Changes

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

Summary of Changes

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| | | Changed | Processor and Power Supply sections under Standard Features were revised. HPE Power Supplies section was revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 03-Apr-2017 | Version 29 | Changed | Internal View image call outs were revised. |
| 27-Mar-2017 | Version 28 | Added | Added new Hard Drives and new HPE Networking option. |
| | | Changed | HPE I/O Expansion Options section was revised. |
| 17-Feb-2017 | Version 27 | Changed | HPE Memory section under Core Options was revised. |
| 13-Feb-2017 | Version 26 | Added | Added new HDD and SSD offering to the HPE Drives section. |
| | | Changed | Graphics and HPE StoreVirtual VSA were revised. |
| 28-Nov-2016 | Version 25 | Added | Added new LFF Hard Drives, new Fiber Channel HBAs up to 32Gb, and new E5-2699A v4 processor. |
| | | Changed | Processors, Memory, Maximum Internal Storage, HPE Drives, and HPE Computation and Graphics Accelerators were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 07-Oct-2016 | Version 24 | Changed | Notes under the HPE Computation and Graphics Accelerators section were revised. |
| 26-Sep-2016 | Version 23 | Added | Added new SATA LFF hard drives offering. New NVIDIA Tesla M4 4GB Module was added. |
| | | Changed | Maximum Internal Storage was revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 19-Aug-2016 | Version 22 | Changed | Smart Buy models section was revised for the NA version only. |
| 15-Aug-2016 | Version 21 | Added | Added new Networking, Storage, and Unique options. |
| | | Changed | Overview, Memory, Standard Features section, Pre-configured Models, Configuration Information - Factory Integrated Models, HPE Drives, InfiniBand, and Computation and Graphics Accelerators were revised. |
| 08-Jul-2016 | Version 20 | Changed | Smart Buy models section was revised for the NA version only. |
| 06-Jun-2016 | Version 19 | Added | Added new HPE 25GB Ethernet Adapters, HPE 100GB OPA Adapter, HPE 128GB DIMM (8Rx4 PC4-2400T-L) Kit, HPE NVIDIA Quadro M2000 GPU Module, HPE StoreFabric 84Q 4-port 8Gb FC HBA, and new 2TB, 4TB, and 8TB LFF Drives. |
| | | Changed | Memory, Maximum Internal Storage, Pre-configured Models, HPE Unique Options, HPE Memory, HPE Drives, HPE InfiniBand, HPE Power Supplies, HPE Computation and Graphics Accelerators, HPE Insight Software, HPE PCIe Workload Accelerator Options, HPE Storage Controllers, HPE Disk Backup, and HPE Storage Options were updated. |
| 22-Apr-2016 | Version 18 | Changed | Smart Buy model 800079-S01 was revised. |
| 15-Apr-2016 | Version 17 | Changed | Smart Buy models section was revised for the NA version only. |
| 05-Apr-2016 | Version 16 | Added | Added new NVIDIA Quadro M4000 GPU module. |
| | | Changed | What's New section was updated. Standard Features/Memory and HPE Memory sections were revised. |

Summary of Changes

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|-------------|------------|---------|---|
| 31-Mar-2016 | Version 15 | Added | Added Intel E5-2600v4 Processors support, new HPE Smart Memory DDR4 2400MHz, new HPE Persistent Memory, new HPE Flexible Smart Array P840ar controller, new NVIDIA Quadro GPU options, and new TPM 2.0 module. |
| | | Changed | Embedded Management, Security, Warranty, Service and Support, Pre-configured Models, Memory, and Storage Options sections were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 26-Feb-2016 | Version 14 | Changed | Note for front view image - callout #9 was updated. |
| 16-Feb-2016 | Version 13 | Added | New HDD offering was added to HPE Drives. |
| | | Changed | Maximum Internal Storage, HPE Power Supplies, HPE Computation and Graphics Accelerators, HPE Disk Backup, HPE Data Center Racks, and HPE Power Distribution Units (PDUs) were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 17-Dec-2015 | Version 12 | Added | Smart Buy models were added to the NA version. |
| 01-Dec-2015 | Version 11 | Added | New HDD offering was added to HPE Drives. New options added to HPE PCIe Workload Accelerator Options, HPE Tape Backup, and HPE Disk Storage Systems. |
| | | Changed | On System Management Chipset, Embedded Management, and Server utilities were revised. Product images were updated. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 28-Sep-2015 | Version 10 | Added | Added support for PCIe Solid State Drives, additional 6Gb SATA SSD drives, support for new Network adapters, and support for new PCIe workload accelerators. Added new HPE OneView management software. |
| | | Changed | Internal Storage Devices, Maximum Internal Storage, and HPE Drives were updated. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 17-Aug-2015 | Version 9 | Added | Added new Solid State Drives offering. |
| | | Changed | What's New changed to: Support for PCIe Solid State Drives Support for additional 6Gb SATA SSD drives Maximum Internal Storage and HPE Unique Options were revised. |
| 01-Jun-2015 | Version 8 | Added | New DVD Universal Media Bay option was added. New larger capacity HDDs (up to 8TB LFF), Max capacity 32TB were added. New higher capacity memory (64GB), Max capacity 1.5TB was added. New Networking options were added. Optional Software was added to HPE Storage Controllers. |
| | | Changed | HPE Disk Backup and HPE Uninterruptible Power Systems (UPS) were updated. |
| 30-Mar-2015 | Version 7 | Added | New Hard Drives offering. Added new HPE PCIe Workload Accelerator Options. Optional Software added to HPE Storage Controllers. Added new HPE Pointnext operational services. |

Summary of Changes

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|-------------|-----------|---------|---|
| | | Changed | What's New, Core Options, and Additional Options were revised. |
| | | Removed | Removed obsolete HPE Pointnext operational services. |
| 17-Feb-2015 | Version 6 | Added | Added Smart Buy Models to the NA version only. |
| 09-Feb-2015 | Version 5 | Added | Added What's New section. Added new HPE Drives, Pre-configured Models, and G4 UPS models. |
| | | Changed | HPE Processors, HPE Disk Backup, HPE Tape Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, HPE Uninterruptible Power Systems (UPS), and HPE Computation and Graphics Accelerators sections were revised. |
| 01-Dec-2014 | Version 4 | Changed | Changes were made throughout the QuickSpecs. |
| 13-Oct-2014 | Version 3 | Added | 6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section. HPE PCIe Workload Accelerator Options, HPE USB and SD options were added to the Additional Options section. Smart Buys section was added to NA version. |
| | | Changed | Call outs description for images, Standard Features, Optional Features, Pre-Configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised. |
| 23-Sep-2014 | Version 2 | Changed | Changes were made throughout the QuickSpecs. |
| 09-Sep-2014 | Version 1 | New | New QuickSpecs. |



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

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