

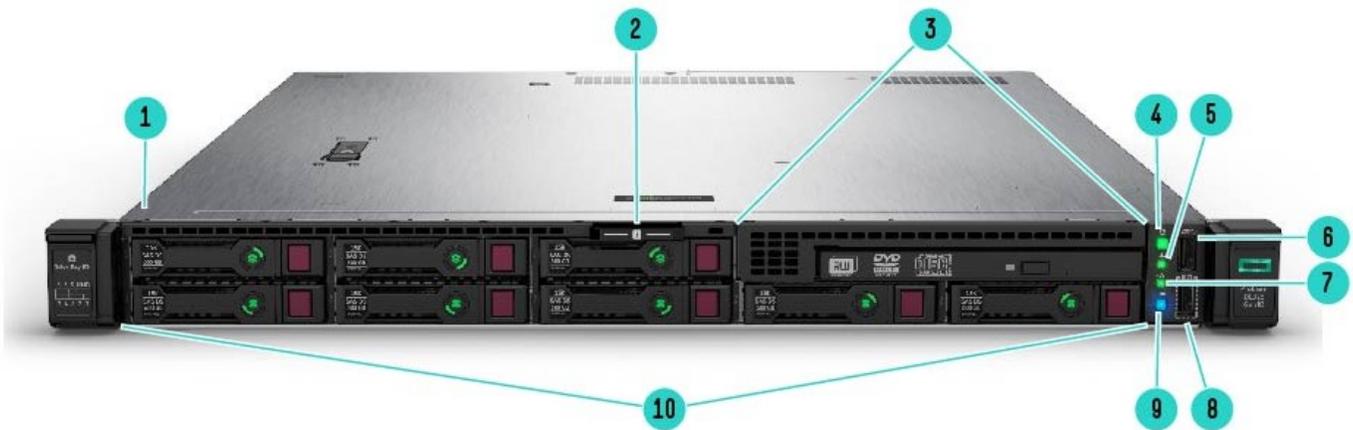
### Overview

#### HPE ProLiant DL325 Gen10 Server

The HPE ProLiant DL325 Gen10 Server is the secure and versatile single socket server for virtualization and I/O intensive workloads.

Powered by the latest AMD® EPYC® 7xx2 Series Processors, the HPE ProLiant DL325 Gen10 Server offers greater processing power and faster memory speeds up to 2933 MT/s

This 1P, 1U server delivers an exceptional balance of processor, memory and I/O for 2P performance at 1P TCO. Get the most out of your virtualized environment with this versatile server.



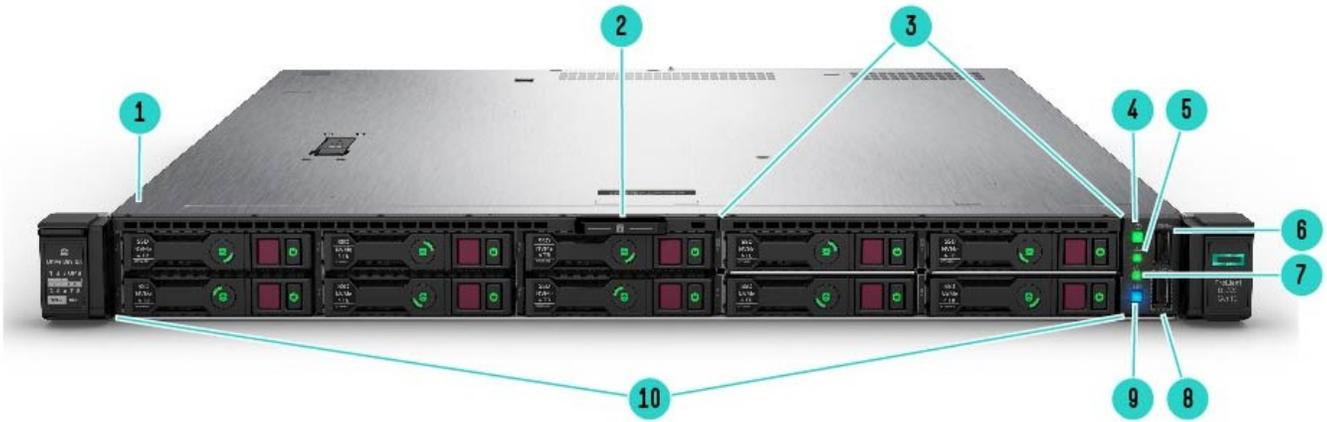
8SFF Front View – 8SFF + ODD Shown

- |   |                                    |
|---|------------------------------------|
| 1. Quick removal access panel                   | 6. USB 3.0 port                    |
| 2. Serial no. label pull tab                    | 7. NIC status LED                  |
| 3. Optional Media Bay*                          | 8. iLO Service Port                |
| 4. Power On/Standby button and system power LED | 9. UID button/LED                  |
| 5. Health LED                                   | 10. Standard 8 SAS/SATA drive bays |

#### Notes: \*

- Option Shown: DVD-RW or DVD-ROM
- Option +2 SFF SAS/SATA (total 10 SFF)
- Option +2 SFF NVMe drives

### Overview

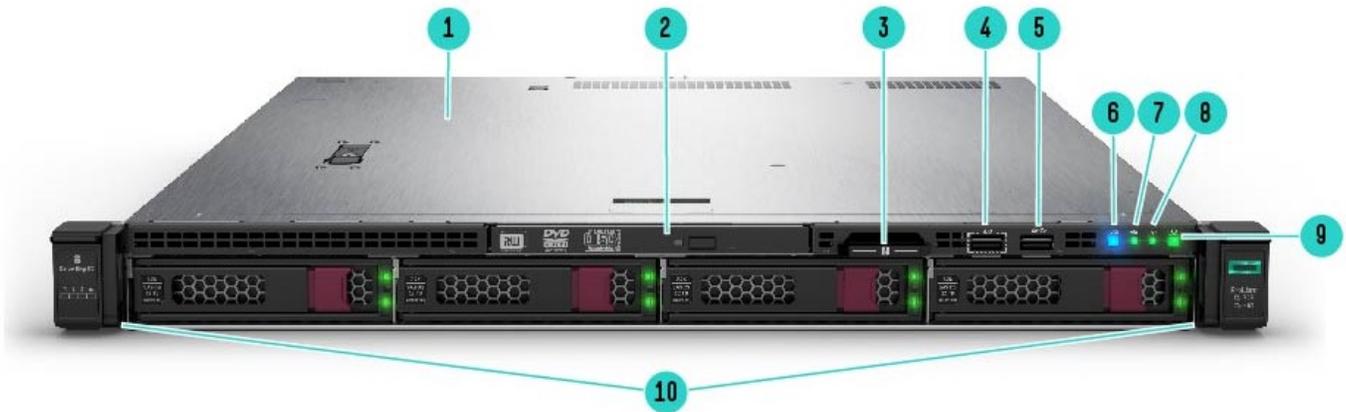


**NVMe SFF Front View – 10 SFF NVMe Shown**

- |   |                                |
|---|--------------------------------|
| 1. Quick removal access panel                   | 6. USB 3.0 port                |
| 2. Serial no. label pull tab                    | 7. NIC status LED              |
| 3. Optional Media Bay*                          | 8. iLO Service Port            |
| 4. Power On/Standby button and system power LED | 9. UID button/LED              |
| 5. Health LED                                   | 10. Standard 8 NVMe drive bays |

**Notes: \***

- Option Shown: +2 SFF NVMe drives (total 10SFF NVMe)
- Option: +2 SFF SAS/SATA
- Option: DVD-RW or DVD-ROM

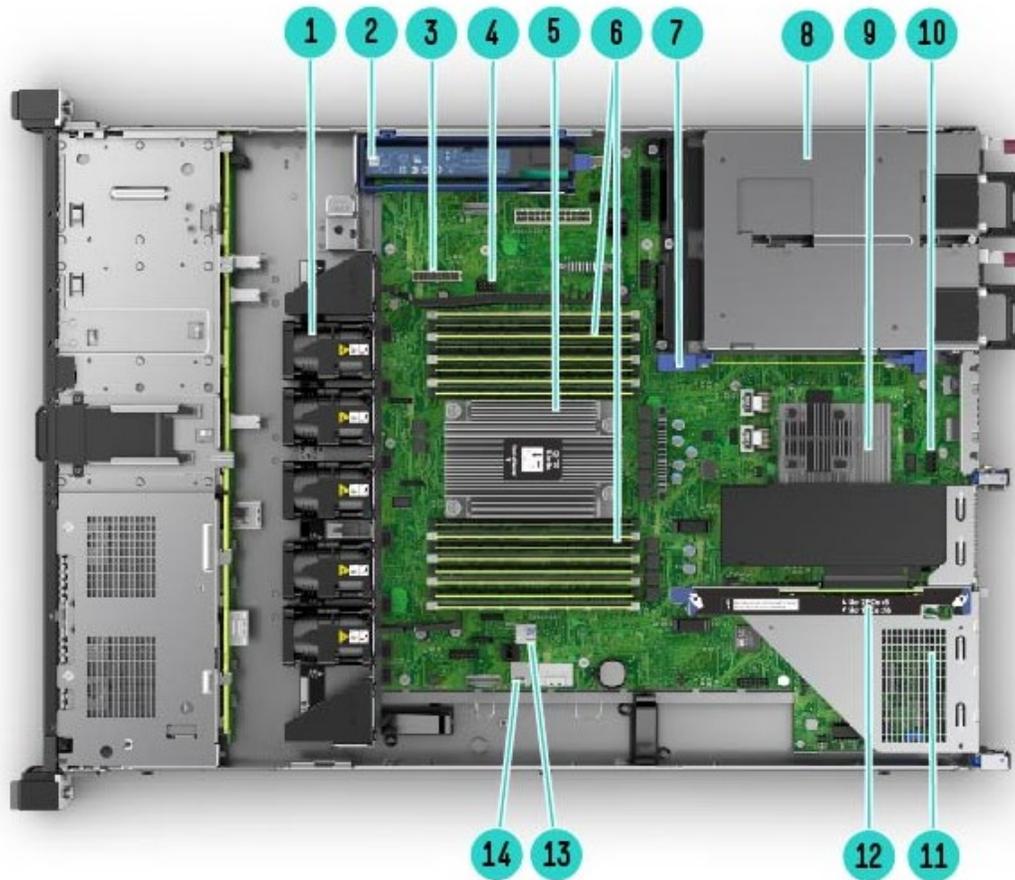


**4LFF Front View – with Optional ODD shown**

- |                                      |   |
|--------------------------------------|---|
| 1. Quick removal access panel        | 6. UID button/LED                               |
| 2. Optional: DVD-RW or DVD-ROM shown | 7. NIC status LED                               |
| 3. Serial no. label pull tab         | 8. Health LED                                   |
| 4. iLO Service Port                  | 9. Power On/Standby button and system power LED |
| 5. USB 3.0 Port                      | 10. Standard 4 SAS/SATA drive bays              |



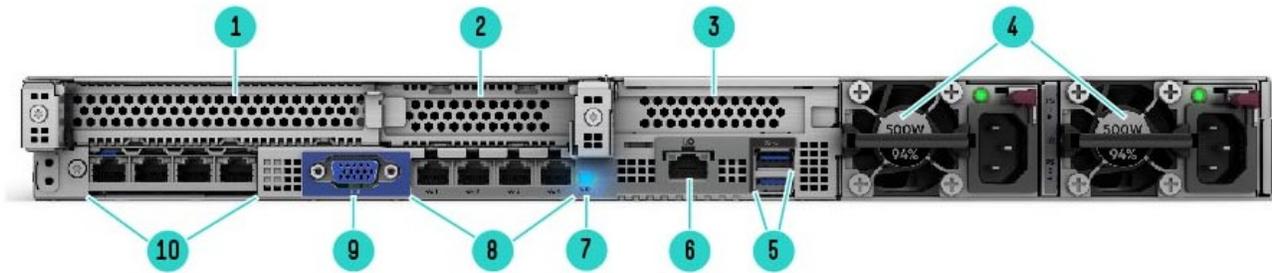
## Overview

**Internal View 8SFF chassis –with optional FlexLOM, Smart array shown**

- |   |  |    |  |
|---|--|----|--|
| 1 | Fan cage shown with 5 Performance Hot-swappable fans | 8  | Hot Plug redundant HPE Flexible Slot Power supplies          |
| 2 | Optional HPE Smart Storage Battery                   | 9  | Optional HPE Flexible Smart Array Controller (P408i-a shown) |
| 3 | Hard drive Backplane Power Connector                 | 10 | Serial Port Connector  |
| 4 | Chassis intrusion detection connector                | 11 | (Under) Optional Flexible LOM slot                           |
| 5 | Processor (heatsink shown)                           | 12 | Primary PCIe riser, standard                                 |
| 6 | DDR4 DIMM slots. Shown fully populated in 16 slots   | 13 | Internal USB 3.0 connector                                   |
| 7 | Connection for second (optional) riser               | 14 | MicroSD card slot  |



## Overview



### Rear View – With optional FlexLOM shown.

- |                                       |  |
|---------------------------------------|--|
| 1. Slot 1 PCIe 3.0                    | 6. iLO Management Port                       |
| 2. Slot 2 PCIe 3.0                    | 7. UID LED                                   |
| 3. Optional Slot 3 PCIe 3.0           | 8. **Embedded 4x 1GbE Adapter ( if equipped) |
| 4. HPE Flexible Slot Power Supply Bay | 9. VGA Port                                  |
| 5. USB 3.0 Ports                      | 10. **Option: FlexibleLOM (Shown: 4x 1GbE)   |

#### Notes: \*\*

- Supports Various NICs up to 25GbE.
- Embedded 4x 1GbE Adapter is not equipped on new boards for 7xx2 series processors.

## What's New

- Supports the next generation AMD EPYC 7xx2 Series processor with double the core density compared to the previous generation and memory speeds up to 2933 MT/s
- Embedded 4x 1GbE LOM is not supported with 7xx2 series processors.
- New 2933 Memory DIMMs with capacity upto 128 GB
- New Disk Cartridge Options
- New SATA Read Intensive SSD drives
- New NVMe Read Intensive and Mixed Use SSD drives
- European Union (EU) Lot 9 regulation, please visit: <https://www.hpe.com/us/en/about/environment/msds-specs-more.html> for more information.

## Platform Information

### Form Factor

- 1U rack

### Chassis Types

- 8 SFF with optional Optical Drive, 2 SFF SAS/SATA or 2 NVMe drive bay options
- 8 SFF NVMe with optional Optical Drive 2 SFF SAS/SATA or 2 NVMe drive bay options
- 4 LFF with an optional Optical Drive bay

#### Notes:

- The 8 SFF can be upgraded with either an additional 2SFF SAS/SATA kit for a total 10 SAS/SATA drives or 2SFF NVMe Kit for a total of 8 SAS/SATA + 2 NVMe drives.
- The NVMe chassis can be upgraded with either an additional 2SFF NVMe kit for a total of 10 NVMe drives or 2SFF SAS/SATA kit for a total of 8NVMe + 2 SAS/SATA drives.

### System Fans

- 4LFF Chassis includes 5 Single Rotor Hot Swappable cable fans
- 8SFF Chassis includes 5 Dual Rotor Hot Swappable cable fans
- NVMe Chassis includes 7 Dual Rotor Hot Swappable cable fans

## Standard Features

### Standard Features

Processors – One of the following depending on model.

**Notes:** For more information regarding AMD EPYC processors, please see the following:

<https://www.amd.com/en/products/epyc-server>

AMD® EPYC® 7xx2 Series Processor Family							
AMD EPYC Processor	Cores	Base Frequency	Max Frequency	Max Memory	Wattage	Cache	Memory
EPYC 7702P	64	2.0Ghz	3.35Ghz	2TB	200	256MB	2933MT/S
EPYC 7702	64	2.0Ghz	3.35Ghz	2TB	200	256MB	2933MT/S
EPYC 7552	48	2.2Ghz	3.3Ghz	2TB	200	192MB	2933MT/S
EPYC 7532	32	2.4GHz	3.3GHz	4TB	200	256MB	3200MT/s
EPYC 7502P	32	2.5Ghz	3.35Ghz	2TB	180	128MB	2933MT/S
EPYC 7452	32	2.35Ghz	3.35Ghz	2TB	155	128MB	2933MT/S
EPYC 7402P	24	2.8Ghz	3.35Ghz	2TB	180	128MB	2933MT/S
EPYC 7352	24	2.3Ghz	3.2Ghz	2TB	155	128MB	2933MT/S
EPYC 7302P	16	3.0Ghz	3.3Ghz	2TB	155	128MB	2933MT/S
EPYC 7282	16	2.8GHz	3.2GHz	4TB	120	64MB	3200MT/s
EPYC 7272	12	2.9GHz	3.2GHz	4TB	120	64MB	3200MT/s
EPYC 7262	8	3.2GHz	3.4GHz	2TB	155	128MB	2933MT/S
EPYC 7232P	8	3.1GHz	3.2GHz	4TB	120	32MB	3200MT/s

AMD® EPYC® 7xx1 Series Processor Family							
AMD EPYC Processor	Cores	Base Frequency	Max Frequency	Max Memory	Wattage	Cache	Memory
EPYC 7601	32	2.2GHz	3.2GHz	2TB	180	64MB	2666MT/S
EPYC 7551P	32	2.0GHz	3.0GHz	2TB	180	64MB	2666MT/S
EPYC 7501	32	2.0GHz	3.0GHz	2TB	155/170	64MB	2666MT/S
EPYC 7451	24	2.3GHz	3.2GHz	2TB	180	64MB	2400/2666MT/S
EPYC 7401P	24	2.0GHz	3.0GHz	2TB	155/170	64MB	2400/2666MT/S
EPYC 7351P	16	2.4GHz	2.9GHz	2TB	155/170	64MB	2400/2666MT/S
EPYC 7301	16	2.2GHz	2.7GHz	2TB	155/170	64MB	2400/2666MT/S
EPYC 7281	16	2.1GHz	2.7GHz	2TB	155/170	32MB	2400/2666MT/S
EPYC 7261	8	2.5GHz	2.9GHz	2TB	155/170	64MB	2400/2666MT/S
EPYC 7251	8	2.1GHz	2.9GHz	2TB	120	32MB	2400MT/S
EPYC 7371	16	3.1GHz	3.8GHz	2TB	155/170	64MB	2400/2666MT/S

**Notes:** All AMD EPYC processors can support up to 2TB of memory each.

### Chipset

No chipset – System on Chip (SoC) design.

### On System Management Chipset

HPE iLO 5 ASIC

**Notes:** Read and learn more in the [iLO QuickSpecs](#).

### Memory

One of the following depending on model

<b>Type:</b>	HPE DDR4 SmartMemory	Registered (RDIMM), Load Reduced (LRDIMM)
<b>DIMM Slots Available</b>	16	16 DIMM slots per processor, 8 channels per processor, 2 DIMMs per channel

## Standard Features

### With AMD® EPYC® 7xx1 Series Processor Family

<b>Maximum capacity (LRDIMM)</b>	2.0 TB	16 x 128 GB LRDIMM @ 2666 MT/S
<b>Maximum capacity (RDIMM)</b>	1.0 TB	16 x 64 GB RDIMM @ 2666 MT/S

#### Notes:

- The maximum memory speed is limited by the processor selection.
- Mixing of RDIMM and LRDIMM memory is not supported.
- When 2DIMMs are populated per channel, memory speed drops to 2133 MT/S

### With AMD® EPYC® 7xx2 Series Processor Family

<b>Maximum capacity (LRDIMM)</b>	2.0TB	16 x 128 GB RDIMM @ 2933 MHz at 1 DPC
<b>Maximum capacity (RDIMM)</b>	1.0TB	16 x 64 GB RDIMM @ 2933 MT/S

#### Notes:

- The maximum memory speed is limited by the processor selection.
- When 2DIMMs are populated per channel, memory speed drops to 2666 MT/S

## Expansion Slots

### Default Primary Riser

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 3.0	X16	X16	Full-height, full-length slot	Proc 1
2	PCIe 3.0	X8	X8	Low Profile	Proc 1

**Notes:** Bus Width Indicates the number of physical electrical lanes running to the connector.

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 3.0	X16	X16	Low Profile	Proc 1

#### Notes:

- Secondary riser cannot be installed with Modular Smart Array Options
- Bus width indicated the number of physical electrical lanes running to the connector

## Storage Controllers

The Gen10 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10 Smart Array controllers visit the [HPE Smart Array Gen10 Controllers Data Sheet](#). One of the following depending on model

### Software RAID

HPE Smart Array S100i SR Gen10 SW RAID

#### Notes:

- HPE Smart Array S100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.
- HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled.
- HPE Smart Array S100i SR Gen10 SW RAID can operate only in Windows OS
- HPE Smart Array S100i SR Gen10 SW RAID is supported only on 4LFF chassis or on the optional 2SFF SAS/SATA Kit when selected with the 8SFF chassis/ 8SFF SFF NVMe chassis.
- A maximum of 4 devices can be connected to HPE Smart Array S100i SR Gen10 SW RAID.
- HPE Smart Array S100i SR Gen10 SW RAID can support M.2 SSDs

### Essential RAID Controller

- HPE Smart Array E208i-a SR G10 LH Controller
- HPE Smart Array E208e-p SR Gen10 Controller



## Standard Features

### Performance RAID Controller

- HPE Smart Array P408i-a SR G10 LH Controller
- HPE Smart Array P408e-p SR Gen10 Controller
- HPE Smart Array P816i-a SR G10 LH Controller

**Notes:** Performance RAID Controllers require the HPE Smart Storage Battery (P01366-B21) which is sold separately.

### Internal Storage Devices

One of the following depending on model

### Optical Drive

Optional: DVD-ROM, DVD-RW

### Hard Drives

None ship standard

### Maximum Internal Storage

	Capacity	Configuration
Hot Plug SFF SAS	24.0 TB	8+2 x 2.4 TB (with optional 2SFF drive cage)
Hot Plug SFF SATA	20.0 TB	8+2 x 2 TB (with optional 2SFF drive cage)
Hot Plug LFF SAS	56 TB	4 x 14 TB
Hot Plug LFF SATA	56 TB	4 x 14 TB
Hot Plug SFF SAS SSD	153 TB	8+2 x 15.3 TB (with optional 2SFF drive cage)
Hot Plug LFF SATA SSD	7.68 TB	4 x 1.92 TB
Hot Plug SFF SATA SSD	76.8 TB	8+2 x 7.68 TB (with optional 2SFF drive cage)
Hot Plug SFF NVMe PCIe SSD	153.6 TB	8+2 x 15.36 TB

### Interfaces

<b>Serial</b>	Optional, rear
<b>Video Port</b>	1 Rear VGA Port - Standard
<b>Network Ports</b>	4 x 1 Gb ports shipping standard (if equipped), with optional FlexibleLOM or stand up card <b>Notes:</b> Embedded 4x 1GbE LOM is not equipped on new boards for 7xx2 series processors.
<b>HPE iLO Remote Management Network Port</b>	1 Gb Dedicated
<b>Front iLO Service Port</b>	1 standard
<b>Micro SD Slot</b>	1 Micro SD <b>Notes:</b> The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered
<b>USB 3.0</b>	Up to 4 total: 1 front, 2 rear, 1 internal (secure)

### UEFI

Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI).



## Standard Features

### Power Supply

HPE 500W Non Hot Plug Low Halogen FIO Power Supply

**Notes:** Available in 92% efficiency.

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

**Notes:** Available in 94% efficiency.

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

**Notes:**

- Available in 94% and 96% efficiency.
- Also available in -48VDC and 227VAC/380VDC power inputs.

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

**Notes:**

- Available in 94% efficiency.
- 240v power input only.

The HPE 500W FIO Power Supply offers Gold-certified 80 Plus power efficiency up to 92% with an optimized set of features for non-redundant power configurations for Gen10 ProLiant ML 10/100 Series Servers, as well as ML350 Gen10 and DL325 Gen10. 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 Gen10 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the [ProLiant Power Cables](#) web page.

To review the power requirements for your selected system, please use the [HPE Power Advisor Tool](#).

For information on power specifications and technical content visit [HPE Server power supplies](#).

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## Operating Systems and Virtualization Software Support for ProLiant Servers

### AMD® EPYC® 7xx2 Series Processor Family

- Windows Server 2019
- VMware ESXi 6.5 U3
- VMware ESXi 6.7 U3
- **[Red Hat Enterprise Linux \(RHEL\) 7.6](#)**
- **[Red Hat Enterprise Linux \(RHEL\) 8.1](#)**
- **[SUSE Linux Enterprise Server \(SLES\) 12 SP4](#)**
- **[SUSE Linux Enterprise Server \(SLES\) 15 SP1](#)**

### AMD® EPYC® 7xx1 Series Processor Family

- **[Windows Server 2012 R2 \(Most Recent Version\)](#)**
- **[Windows Server 2016 \(Most Recent Version\)](#)**
- **[VMware ESXi 6.5 U2 and 6.7](#)**
- **[Red Hat Enterprise Linux \(RHEL\) 7.4 and 7.5](#)**
- **[SUSE Linux Enterprise Server \(SLES\) 12 SP3](#)**
- **[ClearOS](#)**

HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive web based graphical user interface that provides a cloud-like experience on-premise, and an Application Marketplace with over 100 apps and growing. Whether you're starting out or scaling, you decide what applications you need and pay as you grow.

**Notes:** ClearOS allows you to build a fully functional server that is just right for you at no upfront cost.

For more information on ClearOS, please visit <http://www.hpe.com/servers/clearos>



## Standard Features

### CentOS

CentOS not directly supported / Community Supported (Based on RHEL so RHEL testing and enablement applicable to CentOS) CentOS 7.4/ CentOS 7.5

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

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### 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>.

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### Industry Standard Compliance

- ACPI 6.1 Compliant
  - PCIe 3.0 Compliant
  - WOL Support
  - Microsoft® Logo certifications
  - PXE Support
  - VGA Port
  - USB 3.0 Compliant (internal)
  - USB 2.0 Compliant (external ports via SUV)
  - Energy Star
  - SMBIOS 3.1
  - UEFI 2.6
  - Redfish API
  - IPMI 2.0
  - Secure Digital 2.0
  - Advanced Encryption Standard (AES)
  - Triple Data Encryption Standard (3DES)
  - SNMP v3
  - TLS 1.2
  - DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)
  - Active Directory v1.0
  - European Union (EU) eco-design regulations for server and storage products, known as Lot 9, go into effect on March 1st, 2020. Among other requirements, for servers this directive establishes power thresholds for idle state, as well as efficiency and performance in active state which vary among configurations. HPE ProLiant Gen10 servers are compliant with Lot9 requirements. For more information regarding HPE Lot 9 conformance, please visit: <https://www.hpe.com/us/en/about/environment/msds-specs-more.html>
  - ASHRAE A3/A4  
**Notes:** For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: <http://www.hpe.com/servers/ashrae>.
  - UEFI (Unified Extensible Firmware Interface Forum)  
**Notes:** UEFI is the default for the DL325 Gen10. Legacy mode can be selected in the field or as a CTO option (758959-B22).
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## Standard Features

### Graphics

#### Integrated Video Standard

- Video modes up to 1920 x 1200@60Hz (32 bpp)
- 16MB Video Memory

#### HPE iLO 5 on system management memory

- 32 MB Flash
- 4 Gbit DDR 3 with ECC protection

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### Intelligent Provisioning

Hassle free server and OS provisioning for 1 or more servers with Intelligent Provisioning. Learn more at <https://www.hpe.com/us/en/product-catalog/detail/pip.5219984.html>

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### iLO RESTful API

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

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### Server Utilities

#### Active Health System

The HPE Active Health System (AHS) is an essential component of the iLO management portfolio that provides continuous, proactive health monitoring of HPE servers. Learn more at <http://www.hpe.com/servers/ahs>.

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### HPE Server UEFI/Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen10 servers have a UEFI Class 2 implementation and support both UEFI Mode (default) and Legacy BIOS Mode.

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

- Secure Boot and Secure Start enable for enhanced security
- 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 iLO RESTful API that is Redfish API Conformant
- PXE boot support for IPv6 networks
- Workload Profiles for simple performance optimization
- UEFI Boot Mode only:
- TPM 2.0 Support
- NVMe Boot Support
- iSCSI Software Initiator Support.
- HTTP/HTTPs Boot support as a PXE alternative.
- Boot support for option cards that only support a UEFI option ROM

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

**Notes:** UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen10 Server.

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### Active Health System Viewer

Use the Active Health System Viewer, a web-based portal, to easily read AHS logs and speed problem resolution with HPE self-repair recommendations, to learn more visit: <http://www.hpe.com/servers/ahsv>.



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## Standard Features

### Smart Update

Keep your servers up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP). Learn more at

<https://buy.hpe.com/b2c/us/en/enterprise-software/infrastructure-management-software/system-server-management-software/hpe-system-server-software-management-software/smart-update-manager-%28sum%29/p/5182020>.

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### iLO Amplifier Pack

Designed for large enterprise and service provider environments with hundreds of HPE servers, the iLO Amplifier Pack is a free, downloadable open virtual application (OVA) that delivers the power to discover, inventory and update Gen8, Gen9 and Gen10 HPE servers at unmatched speed and scale. Use with an iLO Advanced License to unlock full capabilities.

Learn more at <http://www.hpe.com/servers/iLOamplifierpack>.

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### 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>.

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### RESTful Interface Tool

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

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### Scripting Tools

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

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### HPE OneView Standard

HPE OneView Standard can be used for inventory, health monitoring, alerting, and reporting without additional fees. It can monitor multiple HPE server generations. The user interface is similar to the HPE OneView Advanced version, but the software-defined functionality is not available. Learn more at <http://www.hpe.com/info/oneview>.

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### HPE Systems Insight Manager (HPE SIM)

Ideal for environments already using HPE SIM, it allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers. Also provides you with basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at <http://www.hpe.com/info/hpesim>.

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### Security

- UEFI Secure Boot and Secure Start support
  - Immutable Silicon Root of Trust
  - FIPS 140-2 validation (iLO 5 certification in progress)
  - Common Criteria certification (iLO 5 certification in progress)
  - Configurable for PCI DSS compliance
  - Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
  - Support for Commercial National Security Algorithms (CNSA)
  - Tamper-free updates – components digitally signed and verified
  - Secure Recovery – recover critical firmware to known good state on detection of compromised firmware
  - Ability to rollback firmware
  - Secure erase of NAND/User data
  - TPM (Trusted Platform Module) 1.2 option
  - TPM (Trusted Platform Module) 2.0 option
  - Bezel Locking Kit option
  - Chassis Intrusion detection option
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## Standard Features

### Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE 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.

**Notes:** 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.hp.com/us/en/enterprise/servers/warranty/>.

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## Optional Features

### Server Management

#### HPE iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality.

#### HPE OneView Advanced

HPE OneView brings a new level of automation to infrastructure management by taking a template driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It provides full-featured licenses which can be purchased for managing Gen8, Gen9 and Gen10 servers. To learn more visit <http://www.hpe.com/info/oneview>.

#### HPE InfoSight for Servers

HPE InfoSight for Servers combines the cloud-based machine learning of InfoSight with the health and performance monitoring of Active Health System (AHS) and iLO to optimize performance and predict and prevent problems. The end result is an intelligent environment that modernizes IT operations and enhances the support experience by predicting and preventing the infrastructure issues that lead to application disruptions, wasted IT staff time and missed business opportunities.

Learn more at <https://www.hpe.com/servers/infosight>

#### 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>.

#### Accelerator and GPU Information

Hewlett Packard Enterprise supports various accelerators on select HPE ProLiant servers to support different workloads. The accelerators enable seamless integration of GPU computing with HPE ProLiant servers for high-performance computing, large data center graphics, deep learning and virtual desktop deployments. These accelerators deliver all of the standard benefits of GPU computing while enabling maximum reliability and tight integration with system monitoring and management tools such as HPE Insight Cluster Management Utility.

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### Rack and Power Infrastructure

The story may end with servers, but it starts with the foundation that makes compute go – and business grow. We've reinvented our entire portfolio of rack and power products to make IT infrastructure more secure, more practical, and more efficient. In other words, we've created a stronger, smarter, and simpler infrastructure to help you get the most out of your IT equipment. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access.

HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10 year Warranty to support higher density computing. HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°C, include color-coded outlets and load segments and a low-profile design for optimal access to the rack and support for dense rack environments. HPE Uninterruptible Power Systems are cost-effective power protection for any type workload. Some UPSs include options for remote management and extended runtime modules so you're critical dense data center is covered in power outages. HPE KVM Solutions include a console and switches designed to work with your server and IT equipment reliably. We've got a cost-effective KVM switch for your first rack and multiple connection IP switches with remote management and security capabilities to keep your data center rack up and running.

Learn more about HPE Racks, KVM, PDUs and UPSs at [HPE Rack and Power Infrastructure](#).

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## Optional Features

### 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. <https://h22174.www2.hpe.com/SimplifiedConfig/Welcome>

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## Service and Support

### HPE Pointnext - Service and Support

#### Achieve maximum return from your IT investment

Get the expertise you need at every step of your IT journey with **HPE Pointnext services and support**. We help you lower your risks and costs using proven best practices, automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. With **Advisory Services**, we focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

#### Consume IT on your terms

**HPE GreenLake Flex Capacity** combines the simplicity, agility, and economics of public cloud with the security and performance benefits of on-premises IT. You determine your own “Right Mix” of Hybrid IT and workload placement without having to use. With its agile pay-per-use service, HPE GreenLake Flex Capacity can help your IT organization:

- Avoid IT expenses stemming from overprovisioning
- Improve time to market by maintaining a safe buffer of capacity, ready for use when you need it
- Keep capacity ahead of demand with regular monitoring—and a simple change order to replenish
- Pay for only the capacity used, not the capacity deployed
- Reduce IT risk with tailored support

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#### Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Reduce down time and improve diagnostic accuracy with 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 HPE support. Learn more about getting connected at <http://www.hpe.com/services/getconnected>

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#### HPE Proactive Care

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. HPE Proactive Care is available in 3, 4 and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). This Service combines both reactive support when there is a problem with an enhanced call experience and start to finish case management with proactive reporting and advice. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.).

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

**Notes:** HPE Proactive Care requires that the customer connect their devices to HPE to help make the most of these services and receive all the deliverables

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#### HPE Proactive Care Advanced

HPE Proactive Care Advanced incorporates all the deliverables of HPE Proactive Care plus includes personalized support from a local, assigned Account Support Manager who will share best practice advice and personalized recommendations designed to help improve availability and performance to help increase stability and reduce unplanned downtime. Leverage your system's ability to connect to HPE for pre-failure alerts, automatic call logging and parts dispatch. For business critical incidents, Proactive Care Advanced offers critical event management to help reduce mean time to resolution. HPE Service Credits are included to redeem for technical and operational services. HPE Proactive Care Advanced is offered in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR).

<https://www.hpe.com/h20195/v2/getdocument.aspx?docname=4AA5-3259ENW>

**Notes:** HPE Proactive Care requires that the customer connect their devices to HPE to help make the most of these services and receive all the deliverables.



## Service and Support

### **HPE Foundation Care**– (Choose the response level that meets your needs)

HPE Foundation Care helps when there is a problem and is available in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). Note that Call-To-Repair Service connects you to HPE 24 hours a day, seven days a week for assistance on resolving issues -this includes our highest level commitment to repair hardware within six hours after opening your case and respond to software questions within two hours. In addition, Collaborative software support is included and provides troubleshooting assistance on industry leading software running on your server. Simplify your support experience and make HPE your first call to help resolve hardware or software problems.

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en>

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### **Other Related Services**

#### **HPE Server Hardware Installation**

Provides for the basic hardware installation of HPE 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/5981-9356ENW.pdf>

#### **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 HPE 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 HPE 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 HPE warranty, HPE Support Service or HPE contractual support agreement.

**Notes:**\*HPE Support Center Mobile App is subject to local availability.

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

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### **Parts and Materials**

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

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

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

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## Pre-configured Models

European Union (EU) eco-design regulations for server and storage products, known as Lot 9, go into effect on March 1st, 2020. Among other requirements, for servers this directive establishes power thresholds for idle state, as well as efficiency and performance in active state which vary among configurations. HPE ProLiant Gen10 servers are compliant with Lot9 requirements. For more information regarding HPE Lot 9 conformance, please visit:

<https://www.hpe.com/us/en/about/environment/msds-specs-more.html>

	Entry Models	Base Model
<b>[SKU Number]</b>	P17199-xx1	P17200-xx1
<b>Model Name</b>	HPE ProLiant DL325 Gen10 7262 3.2GHz 8-core 1P 16GB-R S100i 4LFF 800W RPS Server	HPE ProLiant DL325 Gen10 7262 3.2GHz 8-core 1P 16GB-R P408i-a 8SFF 500W RPS Server
<b>Processor</b>	7262 (8-Core, 3.2 GHz, 155W)	7262 (8-Core, 3.2 GHz, 155W)
<b>Number of Processors</b>	One processor	One processor
<b>Memory</b>	16 GB RDIMM SR 2933 MT/s (1x 16 GB)	16 GB RDIMM SR 2933 MT/s (2x 8 GB)
<b>Network Controller</b>	HPE 1Gb Ethernet 4-Port 336FLR Adapter plus optional HPE FlexibleLOM or stand up card	HPE 1Gb Ethernet 4-Port 336FLR Adapter plus optional HPE FlexibleLOM or stand up card
<b>Storage Controller</b>	S100i	P408i-a <b>Notes: 8-Port modular Smart Array.</b>
<b>Hard Drive</b>	None ship as standard	None ship as standard
<b>Internal Storage</b>	4 LFF chassis	8 SFF Chassis
<b>Optical Drive Bay</b>	Optional	Optional
<b>Optical Drive</b>	None ship as standard	None ship as standard
<b>PCI-Express Slots</b>	2-slots (x16, x8) as standard	2-slots (x16, x8) as standard
<b>Power Supply</b>	1X800W HPE FlexSlot Power Supply	1x 500W HPE FlexSlot Power Supply
<b>Fans</b>	5-performance fans	5-performance fans
<b>Management</b>	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced	
<b>Energy Star</b>	2.1 certified	
<b>Form Factor</b>	1U Rack, Easy Install rails without CMA	
<b>Warranty</b>	3-year parts, 3-year labor, 3-year onsite support with next business day response.	



## Pre-configured Models

Performance Model		
[SKU Number]	P17201-xx1	P16696-xx1
<b>Model Name</b>	HPE ProLiant DL325 Gen10 7302P 3.0GHz 16-core 1P 16GB-R P408i-a 8SFF 800W RPS Server	HPE ProLiant DL325 Gen10 7402P 2.8GHz 24-core 1P 64GB-R P408i-a 8SFF 800W RPS Server
<b>Processor</b>	7302P (16-Core, 3.0 GHz, 155W)	7402P (24-Core, 2.8 GHz, 180W)
<b>Number of Processors</b>	One processor	One processor
<b>Memory</b>	16 GB RDIMM SR 2933 MT/s (1x 16 GB)	64 GB RDIMM SR 2933 MT/s (2x 32 GB)
<b>Network Controller</b>	HPE 1Gb Ethernet 4-Port 336FLR Adapter plus optional HPE FlexibleLOM or stand up card	HPE 1Gb Ethernet 4-Port 336FLR Adapter plus optional HPE FlexibleLOM or stand up card
<b>Storage Controller</b>	P408i-a	P408i-a <b>Notes: 8-Port modular Smart Array.</b>
<b>Hard Drive</b>	None ship as standard	None ship as standard
<b>Internal Storage</b>	8 SFF chassis	8 SFF Chassis
<b>Optical Drive Bay</b>	Optional	Optional
<b>Optical Drive</b>	None ship as standard	None ship as standard
<b>PCI-Express Slots</b>	2-slots (x16, x8) as standard	2-slots (x16, x8) as standard
<b>Power Supply</b>	1X800W HPE FlexSlot Power Supply	1x 800W HPE FlexSlot Power Supply
<b>Fans</b>	5-performance fans	5-performance fans
<b>Management</b>	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced	
<b>Energy Star</b>	2.1 certified	
<b>Form Factor</b>	1U Rack, Easy Install rails without CMA	
<b>Warranty</b>	3-year parts, 3-year labor, 3-year onsite support with next business day response.	



## Pre-configured Models

	Entry Models	Performance Model
<b>[SKU Number]</b>	<b>P04646-xx1</b>	<b>P04647-xx1</b>
<b>Model Name</b>	HPE ProLiant DL325 Gen10 7251 2.1GHz 8-core 1P 8GB-R E208i-a 4LFF 500W PS Entry Server	HPE ProLiant DL325 Gen10 7351P 2.4GHz 16-core 1P 16GB-R E208i-a 8SFF 1x500W PS Performance Server
<b>Processor</b>	7251 (8-Core, 2.1 GHz, 120W)	7351P (16-Core, 2.4 GHz, 155/170W)
<b>Number of Processors</b>	One processor	One processor
<b>Memory</b>	8 GB RDIMM SR 2666 MT/s (1x 8 GB)	16 GB RDIMM SR 2666 MT/s (2x 8 GB)
<b>Network Controller</b>	HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card	HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card
<b>Storage Controller</b>	E208i-a <b>Notes: 8-Port modular Smart Array.</b>	E208i-a <b>Notes: 8-Port modular Smart Array.</b>
<b>Hard Drive</b>	None ship as standard	None ship as standard
<b>Internal Storage</b>	4 LFF chassis	8 SFF Chassis
<b>Optical Drive Bay</b>	Optional	Optional
<b>Optical Drive</b>	None ship as standard	None ship as standard
<b>PCI-Express Slots</b>	2-slots (x16, x8) as standard	2-slots (x16, x8) as standard
<b>Power Supply</b>	500W HPE Non-Hot-Plug/Non-RPS Power Supply	1x 500W HPE FlexSlot Power Supply
<b>Fans</b>	5-standard fans	5-performance fans
<b>Management</b>	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced	
<b>Energy Star</b>	2.1 certified	
<b>Form Factor</b>	1U Rack, Easy Install rails without CMA	
<b>Warranty</b>	3-year parts, 3-year labor, 3-year onsite support with next business day response.	



## Pre-configured Models

Performance Model		
[SKU Number]	P04651-xx1	P04648-xx1
<b>Model Name</b>	HPE ProLiant DL325 Gen10 7351P 2.4GHz 16-core 1P 16GB-R P408i-a 8SFF 500W RPS Performance Server	HPE ProLiant DL325 Gen10 7401P 2GHz 24-core 1P 32GB-R P408i-a 8SFF 1x800W PS Performance Server
<b>Processor</b>	7351P (16-Core, 2.4 GHz, 155/170W)	7401P (24-Core, 2.0 GHz, 155/170W)
<b>Number of Processors</b>	One processor	One processor
<b>Memory</b>	16 GB RDIMM DR 2666 MT/s (1x 16 GB)	32 GB RDIMM DR 2666 MT/s (2x 16 GB)
<b>Network Controller</b>	HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card	HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card
<b>Storage Controller</b>	P408i-a <b>Notes:</b> – 8-Port modular Smart Array. – Smart Storage battery included.	P408i-a <b>Notes:</b> – 8-Port modular Smart Array. – Smart Storage battery included.
<b>Hard Drive</b>	None ship as standard	None ship as standard
<b>Internal Storage</b>	8 SFF Chassis	8 SFF Chassis
<b>Optical Drive Bay</b>	Optional	Optional
<b>Optical Drive</b>	Optional	Optional
<b>PCI-Express Slots</b>	2-slots (x16, x8) as standard	2-slots (x16, x8) as standard
<b>Power Supply</b>	1x 500W HPE FlexSlot Power Supply	1x 800W HPE FlexSlot power supply
<b>Fans</b>	5-performance fans	
<b>Management</b>	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced	
<b>Energy Star</b>	2.1 certified	
<b>Form Factor</b>	1U Rack, Easy Install rails without CMA	
<b>Warranty</b>	3-year parts, 3-year labor, 3-year onsite support with next business day response.	



## Pre-configured Models

Entry Model	
<b>[SKU Number]</b>	<b>P27086-xx1</b>
<b>Model Name</b>	HPE ProLiant DL325 Gen10 7232P 3.1GHz 8-core 1P 16GB-R P408i-a 8SFF 500W RPS Performance Server
<b>Processor</b>	7232P (8-Core, 3.1 GHz, 120W)
<b>Number of Processors</b>	One processor
<b>Memory</b>	16 GB RDIMM DR 2933 MT/s (1x 16 GB)
<b>Network Controller</b>	HPE 1Gb Ethernet 4-Port 336FLR Adapter plus optional HPE FlexibleLOM or stand up card
<b>Storage Controller</b>	P408i-a <b>Notes:</b> – 8-Port modular Smart Array. – Smart Storage battery included.
<b>Hard Drive</b>	None ship as standard
<b>Internal Storage</b>	8 SFF Chassis
<b>Optical Drive Bay</b>	Optional
<b>Optical Drive</b>	Optional
<b>PCI-Express Slots</b>	2-slots (x16, x8) as standard
<b>Power Supply</b>	1x 500W HPE FlexSlot Power Supply
<b>Fans</b>	5-performance fans
<b>Management</b>	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced
<b>Energy Star</b>	2.1 certified
<b>Form Factor</b>	1U Rack, Easy Install rails without CMA
<b>Warranty</b>	3-year parts, 3-year labor, 3-year onsite support with next business day response.



## Pre-configured Models

SMB Model	
<b>[SKU Number]</b>	<b>P27087-xx1</b>
<b>Model Name</b>	HPE ProLiant DL325 Gen10 7282 2.8GHz 16-core 1P 16GB-R P408i-a 8SFF 500W RPS Performance Server
<b>Processor</b>	7282 (16 Core, 2.8GHz, 120W)
<b>Number of Processors</b>	One processor
<b>Memory</b>	16 GB RDIMM DR 2933 MT/s (1x 16 GB)
<b>Network Controller</b>	HPE 1Gb Ethernet 4-Port 336FLR Adapter plus optional HPE FlexibleLOM or stand up card
<b>Storage Controller</b>	P408i-a <b>Notes:</b> – 8-Port modular Smart Array. – Smart Storage battery included.
<b>Hard Drive</b>	None ship as standard
<b>Internal Storage</b>	8 SFF Chassis
<b>Optical Drive Bay</b>	Optional
<b>Optical Drive</b>	Optional
<b>PCI-Express Slots</b>	2-slots (x16, x8) as standard
<b>Power Supply</b>	1x 500W HPE FlexSlot Power Supply
<b>Fans</b>	5-performance fans
<b>Management</b>	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced
<b>Energy Star</b>	2.1 certified
<b>Form Factor</b>	1U Rack, Easy Install rails without CMA
<b>Warranty</b>	3-year parts, 3-year labor, 3-year onsite support with next business day response.



## Configuration Information

European Union (EU) eco-design regulations for server and storage products, known as Lot 9, go into effect on March 1st, 2020. Among other requirements, for servers this directive establishes power thresholds for idle state, as well as efficiency and performance in active state which vary among configurations. HPE ProLiant Gen10 servers are compliant with Lot9 requirements. For more information regarding HPE Lot 9 conformance, please visit:

<https://www.hpe.com/us/en/about/environment/msds-specs-more.html>

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

1. Factory Integrated Models must start with a CTO Server.
2. FIO indicates that this option is only available as a factory installable option.
3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the server.
4. Some options may not be integrated at the factory. Contact your local sales representative for additional information.

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

CTO Server	HPE ProLiant DL325 Gen10 4 LFF CTO Server	HPE ProLiant DL325 Gen10 8 SFF CTO Server	HPE ProLiant DL325 Gen10 NVMe SFF CTO Server
<b>SKU Number</b>	P04653-B21	P04654-B21	P04662-B21
<b>TAA SKU</b>	P04652-B21	P04848-B21	P05046-B21
<b>Processor</b>	Not included as standard	Not included as standard	Not included as standard
<b>DIMM Slots</b>	16-DIMM slots	16-DIMM slots	16-DIMM slots
<b>Storage Controller</b>	Choice of HPE modular Smart Array and PCIe plug-in controller		
<b>PCIe</b>	Two standard in primary riser		
<b>Drive Cage - included</b>	4 LFF	8 SFF	8 SFF NVMe
<b>Network Controller</b>	HPE 1Gb Ethernet 4-Port 331i Adapter (if equipped) and /or optional HPE FlexibleLOM or stand up card		
<b>Fans</b>	5-Standard	5-Performance	7-Performance
<b>Management</b>	HPE iLO with Intelligent Provisioning (standard), iLO Advances and OneView (optional)		
<b>USB</b>	Front: 1 USB 3.0 + iLO service port Rear: 2 USB 3.0 Internal: 1 USB 3.0	Front: 1 USB 3.0 + iLO service port Rear: 2 USB 3.0 Internal: 1 USB 3.0	Front: 1 USB 3.0 + iLO service port Rear: 2 USB 3.0 Internal: 1 USB 3.0

#### Notes:

- HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed in a designated country. TAA compliance is only provided when HPE options are included as part of factory integrated orders (CTO).
- TAA chassis are only orderable in North America and Canada.
- The HPE ProLiant DL325 Gen10 NVMe SFF CTO Server ships with the cable required for 8 NVMe drives installation.
- All CTO servers are Energy Star 2.1 compliant.
- CTO servers do not ship with Rail Kits ,they need to be ordered separately.
- Embedded 4x 1GbE Adapter is not equipped on new boards for 7xx2 series processors.

<b>CTO Server</b>	8 SFF CTO Chassis	4 LFF CTO Chassis	NVMe SFF CTO Chassis
<b>Included Drive Cage</b>	8 SFF SAS/SATA	4 LFF + UMB	8 NVMe Chassis
<b>Universal Media Bay</b>	1 Optional	1 Included	1 Optional
<b>ODD</b>	1 Optional with UMB	1 Optional	1 Optional with UMB
<b>2 SFF SAS/SATA</b>	1 Optional	Not available	1 Optional
<b>2 SFF NVMe</b>	1 Optional	Not available	1 Optional

**Notes:** This applies to CTO configurations, field upgrades may differ depending field configuration.

**Notes:** Only one of the 2 SFF SAS/SATA or 2 SFF NVMe can be selected at any time.



## Configuration Information

### Step 2a: Choose Required Options – Processors (only one of the following unless otherwise noted)

Please select one –L21 processor required below.

#### Notes:

- All CTO Models ship with redundant fan configuration.
- DDR4 memory speed will depend on the quantity and type of DIMMs installed.
- Processors with greater than 170W will ship with the High Performance heatsink.

#### Processor Option Kits

#### SKU

#### AMD® EPYC® 7xx2 Generation Processor Family

AMD EPYC 7702P (2.0GHz/64-core/200W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P16637-L21

**Notes:** Ships with High Performance Heatsink.

AMD EPYC 7702 (2.0GHz/64-core/200W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P22034-L21

**Notes:** Ships with High Performance Heatsink.

AMD EPYC 7552 (2.2GHz/48-core/165-200W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P21864-L21

**Notes:** Ships with High Performance Heatsink.

AMD EPYC 7532 (2.4GHz/32-core/200W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P25854-L21

**Notes:** Ships with Standard Heatsink.

AMD EPYC 7502P (2.5GHz/32-core/180-200W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P16639-L21

**Notes:** Ships with High Performance Heatsink.

AMD EPYC 7402P (2.8GHz/24-core/180-200W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P16641-L21

**Notes:** Ships with High Performance Heatsink.

AMD EPYC 7352 (2.3GHz/24-core/155W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P21424-L21

**Notes:** Ships with Standard Heatsink.

AMD EPYC 7452 (2.3GHz/32-core/155-180W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P16921-L21

**Notes:** Ships with Standard Heatsink.

AMD EPYC 7302P (2.8GHz/16-core/155-180W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P16644-L21

**Notes:** Ships with Standard Heatsink.

AMD EPYC 7282 (2.8GHz/16-core/120W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P25853-L21

**Notes:** Ships with Standard Heatsink.

AMD EPYC 7272 (2.9GHz/12-core/120W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P25852-L21

**Notes:** Ships with Standard Heatsink.

AMD EPYC 7262 (3.2GHz/8-core/155-180W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P16922-L21

**Notes:** Ships with Standard Heatsink.

AMD EPYC 7232P (3.1GHz/8-core/120W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P25851-L21

**Notes:** Ships with Standard Heatsink.

#### AMD® EPYC® 7xx1 Generation Processor Family

AMD EPYC 7601 (2.2GHz/32-core/180W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P04851-L21

**Notes:** Ships with Performance Heatsink.

AMD EPYC 7551P (2.0 GHz/32-core/180W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P04852-L21

**Notes:** Ships with Performance Heatsink.

AMD EPYC 7501 (2.0GHz/32-core/155-170W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P04853-L21

**Notes:** Ships with Standard Heatsink.

AMD EPYC 7451 (2.3GHz/24-core/180W) FIO Processor Kit for HPE ProLiant DL325 Gen10 P04854-L21

**Notes:** Ships with Performance Heatsink.



## Configuration Information

AMD EPYC 7401P (2.0GHz/24-core/155-170W) FIO Processor Kit for HPE ProLiant DL325 Gen10 <b>Notes:</b> Ships with Standard Heatsink.	P04855-L21
AMD EPYC 7351P (2.4GHz/16-core/155-170W) FIO Processor Kit for HPE ProLiant DL325 Gen10 <b>Notes:</b> Ships with Standard Heatsink.	P04856-L21
AMD EPYC 7301 (2.2GHz/16-core/155-170W) FIO Processor Kit for HPE ProLiant DL325 Gen10 <b>Notes:</b> Ships with Standard Heatsink.	P04857-L21
AMD EPYC 7281 (2.1GHz/16-core/155-170W) FIO Processor Kit for HPE ProLiant DL325 Gen10 <b>Notes:</b> Ships with Standard Heatsink.	P04858-L21
AMD EPYC 7261 (2.5GHz/8-core/155-170W) FIO Processor Kit for HPE ProLiant DL325 Gen10 <b>Notes:</b> Ships with Standard Heatsink.	P05918-L21
AMD EPYC 7251 (2.1GHz/8-core/120W) FIO Processor Kit for HPE ProLiant DL325 Gen10 <b>Notes:</b> Ships with Standard Heatsink.	P04859-L21
AMD EPYC 7371 (3.1GHz/16-core/200W) FIO Processor Kit for HPE ProLiant DL325 Gen10. <b>Notes:</b> Ships with Standard Heatsink.	P12253-L21

### Step 2b: Choose Memory Options

Please select one or more memory from below.

For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go to:

<http://www.hpe.com/docs/amd-population-rules>

#### Notes:

- Memory DIMM availability with a server platform is dependent upon completion of certification testing.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.

#### Registered DIMMs (RDIMMs)

HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838079-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838089-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838083-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	P05592-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P19040-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P19042-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838081-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart	P19041-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart	P19043-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P19045-B21

#### Load Reduced DIMMs (LRDIMMs)

HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit	838085-B21
HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Smart Memory Kit	838087-B21
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit	P19044-B21
HPE 128GB (1x128GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit	P19047-B21

#### Notes:

- Mixing of x4 & x8 memory is not allowed
- 2933 MT/s DIMMs are only supported with AMD® EPYC® 7xx2 Series Processor Family
- 2666 MT/s DIMMs are only supported with AMD® EPYC® 7xx1 Series Processor Family.
- 2933 MT/s memory SKUs offer a transfer rate of 2933 MT/s at 1 DIMM per channel and 2666 MT/s at 2 DIMMs per channel



## Configuration Information

### Step 2c: Choose Power Supplies

Select one or two power supplies from below.

**Notes:** Mixing of 2 different power supplies is NOT allowed.

#### HPE ProLiant Gen10 Entry Level Server Power Supplies – Non-Redundant

HPE 500W Low Halogen FIO Power Supply Kit 837074-B21

**Notes:**

- This is a Factory Installed Option (FIO) only.
- Supports Gold-level efficiency (92%) with a standard C14 inlet connector. No support for HPE Power Discovery Services.

Select one or two power supplies from below.

- Mixing of 2 different power supplies is NOT allowed.
- HPE DL325 Gen10 Redundant Power Supply Enablement Kit (P04983-B21) is mandatory to use any of the following power supplies.

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865408-B21

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865414-B21

HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit 865438-B21

HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit 865434-B21

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 830272-B21

HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit 865428-B21

**Notes:**

- Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <http://www.hpe.com/info/hppoweradvisor>.
- All power supplies in a server should match. Mixing Power Supplies is not supported.

### Step 3: Choose Additional Factory Integratable Options

One of the following from each list may be selected if desired at time of factory integration

#### HPE Unique Options

HPE DL325 Gen10 2SFF Smart Array SAS FIO Cable Kit P05036-B21

**Notes:** This option kit is required to connect the 2SFF FIO Enablement Kit (881179-B21) to E208i-a or P408i-a controller.

HPE DL325 Gen10 8SFF Embedded SATA Controller FIO Cable Kit P05030-B21

**Notes:**

- This option kit is used with the 8SFF CTO to connect to the embedded SATA controller on mother board.
- The embedded SATA controller works only in the AHCI mode and does not support SW RAID.

HPE DL325 Gen10 2SFF Embedded SATA Controller FIO Cable Kit P05039-B21

**Notes:** This option kit is used with the 2SFF SAS/SATA FIO Enablement Kit to connect to the embedded SATA controller on mother board.

HPE 1U Gen10 4LFF Embedded SATA Controller FIO Cable Kit 866444-B21

**Notes:**

- This option kit is used with the 4LFF CTO to connect to the embedded SATA controller on mother board.
- The embedded SATA controller works only in the AHCI mode and does not support SW RAID



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## Configuration Information

HPE 1U Gen10 2SFF SAS/SATA FIO Enablement Kit without Cables 881179-B21

**Notes:**

- This option can be selected only on 8SFF CTO or NVMe SFF CTO.
- This is an FIO option only.
- This option kit will enable 2SFF SAS/SATA drives.

**Security**

HPE Gen10 TPM 1.2 FIO Setting 872108-B21

**Notes:** HPE Trusted Platform Module 2.0 Gen10 Option (864279-B21), if it needs to be operated in TPM 1.2 Mode.

**BIOS Mode**

HPE Legacy FIO Mode Setting 758959-B22

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

**HPE Converged Infrastructure Management Software**

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

HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU P8B31A

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**Step 4: Choose additional options for Factory Integration from Core and Additional Options sections below**

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## Core Options

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

### HPE Unique Options

HPE DL325 Gen10 PCIe Low Profile Riser Kit P04849-B21

**Notes:** This riser cannot be used when Modular Smart Array is chosen.

HPE DL325 Gen10 2SFF NVMe Enablement Kit P04979-B21

**Notes:** This option provides support for up to 2 NVMe drives, and can only be populated in SFF or NVMe model only.

HPE DL325 Gen10 2SFF SAS/SATA Enablement Kit P05050-B21

**Notes:**

- This option can be selected only on 8SFF CTO or NVMe SFF CTO.
- This is an Field Upgrade option only.
- This option kit will enable 2SFF SAS/SATA drives.
- This option kit contains the necessary cables to connect to controllers

HPE DL325 Gen10 Serial Port Enablement Kit P05045-B21

**Notes:** This kit would take up the position of Slot 3 and thus cannot be selected in conjunction with Low Profile Riser Kit.

HPE DL325 Gen10 GPU Enablement Kit P10779-B21

**Notes:**

- This option kit requires addition of standard fans if 4LFF model is chosen
- This option kit requires addition of performance fans if 8LFF model is chosen

### HPE Optical Drives

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

HPE 9.5mm SATA DVD-RW Optical Drive 726537-B21

HPE DL325 Gen10 4LFF Optical Disk Drive Cable Kit P05968-B21

**Notes:** This cable kit must be selected if Optical Drive is chosen on the 4LFF CTO Model

HPE Mobile USB DVD-RW Optical Drive 701498-B21

**Notes:** This is only supported on USB 3.0 ports.

HPE 1U Gen10 8SFF Optical Disk Drive Enablement Kit 873961-B21

**Notes:** This enablement kit must be selected if Optical Drive is chosen on the 8SFF or NVMe CTO Model

## HPE Drives

### Enterprise - 12G SAS - SFF Drives

HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD 870753-B21

HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD 872475-B21

HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD 870757-B21

HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD 872477-B21

HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD 870759-B21

HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD 872479-B21

HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD 872481-B21

HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD 881457-B21

### Midline - 12G SAS - SFF Drives

HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD 832514-B21

HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD 765466-B21

### Midline - 12G SAS - LFF Drives

HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD 833926-B21

HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD 833928-B21



## Core Options

HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD	861746-B21
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	834031-B21
<b>Midline - 12G SAS - LFF Drives</b>	
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	P09149-B21
HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	881781-B21
HPE 14TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	P09155-B21
HPE 16TB SAS 12G Business Critical 7.2K LFF (3.5in) LP 1yr Wty 512e ISE HDD	P23608-B21
<b>Midline - 6G SATA - SFF Drives</b>	
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	655710-B21
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765455-B21
<b>Midline - 6G SATA - LFF Drives</b>	
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861686-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861681-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861683-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD	861742-B21
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	834028-B21
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	P09161-B21
HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	881787-B21
HPE 14TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	P09165-B21
HPE 16TB SATA 6G Business Critical 7.2K LFF (3.5in) LP 1yr Wty 512e ISE HDD	P23449-B21

## SSD Selection

To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability,

HPE recommends SSDs from the list located here: <http://www.hpe.com/products/recommend>

### Read Intensive - 12G SAS - SFF - Solid State Drives

HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06584-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04517-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19903-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04519-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06586-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19905-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06588-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04521-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19907-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06590-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04523-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19909-B21
HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06592-B21
HPE 15.36TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19911-B21

### Mixed Use - 12G SAS - SFF - Solid State Drives

HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04525-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09088-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04527-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09090-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19913-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04553-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09092-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19915-B21

## Core Options

HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09094-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04537-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19917-B21
HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04539-B21
HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09096-B21
HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19919-B21
<b>Write Intensive - 12G SAS - SFF - Solid State Drives</b>	
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04541-B21
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09098-B21
<b>HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD</b>	P21125-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04543-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09100-B21
<b>HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD</b>	P21127-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
<b>HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD</b>	P21129-B21
HPE 3.2TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04547-B21
<b>Mixed Use - 12G SAS - LFF - Solid State Drives</b>	
HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P04531-B21
HPE 1.6TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P04535-B21
<b>Read Intensive - 12G Value SAS - SFF - Solid State Drives</b>	
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10440-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P21139-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10442-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P21141-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10444-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P21143-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10446-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P21145-B21
HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P21147-B21
<b>Mixed Use - 12G Value SAS - SFF - Solid State Drives</b>	
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P21131-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P21133-B21
HPE 1.92TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10454-B21
HPE 3.84TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10460-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P21135-B21
HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P21137-B21
<b>Read Intensive - 6G SATA - SFF - Solid State Drives</b>	
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875503-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06194-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06196-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06198-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04474-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04476-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04478-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04480-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06200-B21
HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04482-B21

## Core Options

HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04556-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05924-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18420-B21
HPE 960GB SAS 12G Mixed Use SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10448-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	P05928-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18422-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	P05932-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18424-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04566-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05938-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18426-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04570-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05946-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18428-B21
HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor	P18430-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19935-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19937-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19939-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19941-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19943-B21
HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19945-B21
<b>Mixed Use - 6G SATA - SFF - Solid State Drives</b>	
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09712-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P13658-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05976-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18432-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09716-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P13660-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05980-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18434-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09722-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P13662-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18436-B21
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P00896-B21
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18438-B21
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P21517-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07922-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07926-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07930-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 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P13664-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19947-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19949-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19951-B21
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19953-B21

## Core Options

### Read Intensive - 6G SATA - LFF - Solid State Drives

HPE 960GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P09691-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty SSD	P19974-B21
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty SSD	P19976-B21

### Mixed Use - 6G SATA - LFF - Solid State Drives

HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P09726-B21
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P07934-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty SSD	P19980-B21
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty SSD	P19984-B21

### VRO - 6G SATA - SFF - Solid State Drives

HPE 1.92TB SATA 6G Very Read Optimized SFF (2.5in) SC 3yr Wty SSD	P23487-B21
HPE 3.84TB SATA 6G Very Read Optimized SFF (2.5in) SC 3yr Wty SSD	P23489-B21
HPE 7.68TB SATA 6G Very Read Optimized SFF (2.5in) SC 3yr Wty SSD	P23493-B21

### VRO - 6G SATA - LFF - Solid State Drives

HPE 3.84TB SATA 6G Very Read Optimized LFF (3.5in) LPC 3yr Wty SSD	P23491-B21
HPE 7.68TB SATA 6G Very Read Optimized LFF (3.5in) LPC 3yr Wty SSD	P23495-B21

### Read Intensive - NVMe - SFF - Solid State Drives

HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10208-B21
HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07190-B21
HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13676-B21
HPE 960GB NVMe High Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20015-B21
HPE 960GB NVMe Mainstream Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P25944-B21
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10214-B21
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10210-B21
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07192-B21
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13678-B21
HPE 1.92TB NVMe High Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20017-B21
HPE 1.92TB NVMe Mainstream Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20139-B21
HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13695-B21
HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10212-B21
HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13680-B21
HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10216-B21
HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07194-B21
HPE 3.84TB NVMe High Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20019-B21
HPE 3.84TB NVMe Mainstream Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20141-B21
HPE 4TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13697-B21
HPE 7.68TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10218-B21
HPE 7.68TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07196-B21
HPE 7.68TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13682-B21
HPE 7.68TB NVMe High Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20021-B21
HPE 7.68TB NVMe Mainstream Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20143-B21
HPE 15.36TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07198-B21
HPE 15.36TB NVMe Mainstream Performance Read Intensive SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20145-B21

### Mixed Use - NVMe - SFF - Solid State Drives

HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07179-B21
HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13668-B21
HPE 800GB NVMe High Performance Mixed Use SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20094-B21
HPE 800GB NVMe Mainstream Performance Mixed Use SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P25953-B21



## Core Options

HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10222-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07181-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13699-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13670-B21
HPE 1.6TB NVMe High Performance Mixed Use SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20096-B21
HPE 1.6TB NVMe Main Mixed Use SFF (2.5in) SCN U.3 SSD	P20203-B2
HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10224-B21
HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13672-B21
HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07183-B21
HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13701-B21
HPE 3.2TB NVMe High Performance Mixed Use SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20098-B21
HPE 3.2TB NVMe Mainstream Performance Mixed Use SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20205-B21
HPE 6.4TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10226-B21
HPE 6.4TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P07185-B21
HPE 6.4TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13703-B21
HPE 6.4TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P13674-B21
HPE 6.4TB NVMe High Performance Mixed Use SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20100-B21
HPE 6.4TB NVMe Mainstream Performance Mixed Use SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20207-B21
HPE 12.8TB NVMe Mainstream Performance Mixed Use SFF (2.5in) SCN 3yr Wty Universal Connect SSD	P20209-B21

### Write Intensive - NVMe - SFF - Solid State Drives

HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	878014-B21
HPE 750GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P06952-B21

### Hard Drive Blank Kits

HPE Gen9 LFF HDD Spade Blank Kit	807878-B21
HPE Small Form Factor Hard Drive Blank Kit	666987-B21

### Internal Dual M.2 Kit

HPE Universal SATA HHHL 3yr Wty M.2 Kit	878783-B21
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**Notes:** The Universal SATA M.2 Kit above will require a PCIe slot and support up to two of the same M.2 cards below.

### Read Intensive - 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
HPE 240GB SATA 6G Read Intensive M.2 2280 3yr Wty SSD	P19888-B21
HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty SSD	P19890-B21
HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty SSD	P19892-B21

### Mixed Use - M.2 - Solid State Drives

HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875490-B21
HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875492-B21



## Core Options

### HPE Smart IO

#### Pensando Distributed Services Card (DSC)

Pensando Distributed Services Platform DSC-25 10/25G 2-port SFP28 Card P26966-B21

**Note:** Each card instance requires one RTU license of Silver or Platinum software. In case of more than one adapter, RTU licenses doesn't need to be of the same part number.

#### Pensando DSP Silver Software Licenses

Pensando Distributed Services Platform Silver 1yr Subscription 24x7 Support E-RTU R6A06AAE

Pensando Distributed Services Platform Silver 3yr Subscription 24x7 Support E-RTU R6A07AAE

Pensando Distributed Services Platform Silver 4yr Subscription 24x7 Support E-RTU R6F68AAE

Pensando Distributed Services Platform Silver 5yr Subscription 24x7 Support E-RTU R6A08AAE

#### Pensando DSP Platinum Software Licenses

Pensando Distributed Services Platform Platinum 1yr Renewal Subscription 24x7 Support E-RTU R6A09AAE

Pensando Distributed Services Platform Platinum 3yr Subscription 24x7 Support E-RTU R6A10AAE

Pensando Distributed Services Platform Platinum 4yr Subscription 24x7 Support E-RTU R6F69AAE

Pensando Distributed Services Platform Platinum 5yr Subscription 24x7 Support E-RTU R6A11AAE

#### Pensando Policy and Services Manager Licenses (PSM)

Pensando Distributed Services Platform Policy and Services Manager 1yr License E-RTU R6A45AAE

Pensando Distributed Services Platform Policy and Services Manager 3yr License E-RTU R6A46AAE

Pensando Distributed Services Platform Policy and Services Manager 4yr License E-RTU R6F70AAE

## HPE Networking

### 1 Gigabit Ethernet adapters

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

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

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

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

### 10 Gigabit Ethernet adapters

HPE Ethernet 10Gb 2-port 530T Adapter 656596-B21

HPE Ethernet 10Gb 2-port 530SFP Adapter 652503-B21

HPE Ethernet 10Gb 2-port 535T Adapter 813661-B21

HPE Ethernet 10Gb 2-port 521T Adapter 867707-B21

HPE Ethernet 10Gb 2-port 562T Adapter 817738-B21

### 10 Gigabit Ethernet adapters

HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21

HPE Ethernet 10Gb 2-port 524SFP+ Adapter P08446-B21

HPE Ethernet 10Gb 2-port 548SFP+ Adapter P11338-B21

### 25 Gigabit Ethernet adapters

HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter 817718-B21

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

HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter 867328-B21

### 100 Gigabit Ethernet adapters

HPE Ethernet 100Gb 1-port 842QSFP28 Adapter 874253-B21

### FlexibleLOM adapters

HPE Ethernet 1Gb 4-port 331FLR Adapter 629135-B22

HPE Ethernet 1Gb 4-port 366FLR Adapter 665240-B21

HPE FlexFabric 10Gb 2-port 533FLR-T Adapter 700759-B21



## Core Options

HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	817721-B21
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21

### FlexibleLOM adapters

HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	817709-B21
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21

#### Notes:

- The DL325 Gen10 chassis ships with 4x 1 Gb embedded. (if equipped). It is not equipped on new boards for 7xx2 series processors.
- Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.
- Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information:

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

HPE Ethernet 10Gb 2-port 562FLR-T Adapter	817745-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter	867334-B21

#### Notes:

- The DL325 Gen10 chassis ships with 4x 1 Gb embedded. (if equipped). It is not equipped on new boards for 7xx2 series processors.
- Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.
- Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information:
- 622FLR-SFP28, CN1300R & CN1200R adapters with FCoE used in conjunction with all Red Hat 7.x version OS's are not supported at this time <http://www.hpe.com/us/en/product-catalog/servers/server-adapters.hits-12.html>.

## HPE InfiniBand

HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	879482-B21
HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter	872725-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	872726-B21
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825111-B21
HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 Adapter	P06250-B21
HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 Adapter	P06251-B21

## Infiniband Information

PN	Card	Qty Supported	Processor Supported	DL325Gen10 Configuration					
				Passive Cable	Slot 1	Slot 3	Active Cable	Slot 1	Slot 3
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 Adapter	2 (Slot1&3)	All	Passive Cable	35C	35C	Active Cable	35C	30C
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 Adapter	2 (Slot1&3)	All		35C	35C		35C	25C



## Core Options

### HPE Power Supplies

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 Gen10 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

#### Notes:

- Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at:
- <http://www.hpe.com/info/hppoweradvisor>.
- All power supplies in a server should match. Mixing Power Supplies is not supported.
- Option kits contain the specified power supply and a PDU IEC cable.
- 1600W power supplies only support high line voltage.
- HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). Visit [HPE power cords](#) for a full list of optional HPE power cords.

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865408-B21

#### Notes:

- Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.
- HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit 865438-B21

#### Notes:

- Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.
- HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865414-B21

#### Notes:

- Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.
- HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit 865434-B21

#### Notes:

- Flex Slot -48VDC power supplies support power efficiency of up to 94%.
- HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 830272-B21

#### Notes:

- Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).
- HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE DL325 Gen10 Redundant Power Supply Enablement Kit P04983-B21

**Notes:** This enablement kit is required to use the Flex Slot power supplies

HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit 865428-B21

**Notes:** Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs. **Notes:** HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.



## Core Options

### GPU Information

Part Number	Card	Qty Supported	Processor Supported	HPE ProLiant DL325 Gen10 Server Configuration					
				4LFF	8SFF	8+2 SFF SAS/SATA	8SFFSAS/SATA +2NVMe	8SFF NVMe	SFF NVMe
ROW29C	HPE NVIDIA Tesla T4 16GB Module	1 (Slot1)	All	30C	30C	30C	25C	30C	25C

### HPE Computation and Graphics Accelerators

HPE NVIDIA Tesla T4 16GB Computational Accelerator

ROW29C

**Notes:** [HPE DL325 Gen10 GPU Enablement Kit \(P10779-B21\)](#) is mandatory to use this accelerator



## Additional Options

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

### Embedded Management

#### HPE iLO Advanced

HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features	BD506A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A
HPE iLO Common Password FIO Setting	P08040-B21

#### HPE Converged Infrastructure Management Software

HPE OneView Physical Media Kit LTU	E5Y37A
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
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

**Notes:** Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be [downloaded](#).

#### HPE PCIe Workload Accelerator Options

HPE 750GB PCIe x4 Lanes Write Intensive HHHL 3yr Wty Digitally Signed Firmware Card	878038-B21
HPE 1.6TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	P10264-B21
HPE 3.2TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	P10266-B21
HPE 6.4TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	P10268-B21

#### HPE Security

HPE 1U Gen10 Bezel Kit	867998-B21
HPE Bezel Lock Kit	875519-B21
HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21

#### Notes:

- HPE Trusted Platform Module 2.0 option works with Gen10 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.
- HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.
- There is a FIO setting to allow this TPM module to operate in a TPM 1.2 mode (872108-B21).

HPE 1U Gen10 Chassis Intrusion Detection Kit	866473-B21
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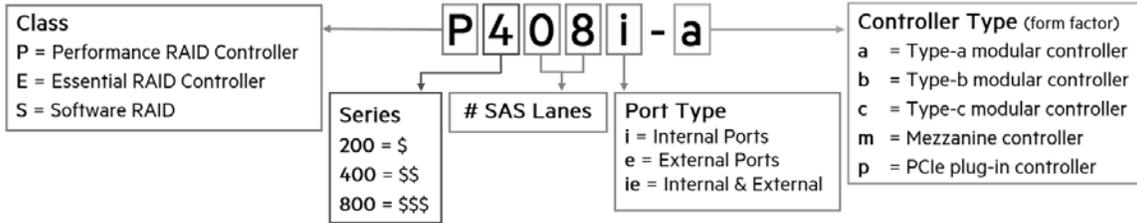
**Notes:** This provides a physical connection from the chassis board and hood and detects any physical intrusion into the chassis, providing security during the entire supply chain process of shipping, receiving, distribution, and operation.



## Additional Options

### HPE Smart Array Controllers

The Gen10 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10 Smart Array controllers visit the [HPE Smart Array Gen10 Controllers Data Sheet](#).



### Smart Array Controllers

HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit

**Notes:** All performance RAID controllers are supported by the HPE Smart Storage Battery (P01366-B21), which supports multiple devices and is sold separately.

HPE Smart Array P816i-a SR Gen10 (16 Int Lanes/4GB Cache/SmartCache) 12G SAS Modular LH Controller 869083-B21

**Notes:**

- Does not occupy a PCIe expansion slot and includes SmartCache license.
- The P816i-a cable ships in the 8SFF chassis only.

HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular LH Controller 869081-B21

**Notes:** Does not occupy a PCIe expansion slot.

HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller 804405-B21

HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller 830824-B21

### Essential RAID Controllers

HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804398-B21

HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804394-B21

HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular LH Controller 869079-B21

**Notes:** Does not occupy a PCIe expansion slot.

### HPE Cable Options

HPE DL325 Gen10 10SFF Smart Array SAS Cable Kit P05042-B21

HPE 1U Gen10 4LFF Smart Array SAS Cable Kit 866452-B21

HPE 1U Gen10 8SFF Smart Array SAS Cable Kit 866448-B21

HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit P02377-B21

HPE DL325 Gen10 4LFF Smart Array S100i SATA FIO Cable Kit P09409-B21

**Notes:** HPE DL325 Gen10 4LFF Smart Array S100i SATA FIO Cable Kit must be selected in order to support HPE Smart Array S100i SR Gen10 SW RAID on 4LFF CTO chassis

### Optional Software

HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU Q2F26AAE

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

**Notes:** SmartCache is offered on HPE Smart Array performance RAID controllers and comes standard (no licensing is required) if the HPE Smart Array P816i-a SR Gen10 Controller is installed in the server.



## Additional Options

### Optional Upgrades

HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit

P01366-B21

**Notes:** Provides backup power for multiple HPE Smart Array controllers or other devices. Is required with performance RAID controllers.

### HPE Tape Backup

For the complete range of tape drives, autoloaders, libraries and media see:

<https://www.hpe.com/us/en/storage/storeever-tape-storage.html>.

For hardware and software compatibility of Hewlett Packard Enterprise tape backup products

<http://www.hpe.com/storage/BURACompatibility>.

### HPE Disk-Based Backup

HPE RDX 1TB External Disk Backup System	B7B69B
HPE RDX External Docking Station	C8S07B
HPE RDX 2TB External Disk Backup System	E7X53B
HPE RDX 500GB Removable Disk Cartridge	Q2042A
HPE RDX 1TB Removable Disk Cartridge	Q2044A
HPE RDX 2TB Removable Disk Cartridge	Q2046A
HPE RDX 4TB Removable Disk Cartridge	Q2048A

### HPE Storage Options

#### Emulex Fibre Channel HBAs

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 SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	Q0L11A
HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	Q0L12A

#### QLogic Fibre Channel HBAs

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 SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	P9M75A
HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	P9M76A

#### Converged Network Adapters

HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
HPE StoreFabric CN1200R 10GBASE-T Converged Network Adapter	Q0F26A
HPE StoreFabric CN1300R 10/25Gb Dual Port Converged Network Adapter	Q0F09A

#### Notes:

- For the complete listing of Fibre Channel Converged Network Adapters please see: <https://www.hpe.com/us/en/product-catalog/servers/adapters/pip.models.hpe-storefabric-converged-network-adapters.4118472.html>
- 622FLR-SFP28, CN1300R & CN1200R adapters with FCoE used in conjunction with all Red Hat 7.x version OS's are not supported at this time.



## Additional Options

### HPE Racks

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

### HPE Power Distribution Units (PDUs)

Please see the [HPE Basic Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.  
 Please see the [HPE Metered Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.  
 Please see the [HPE Intelligent Power Distribution Unit \(PDU\) QuickSpecs](#) for information on these products and their specifications.  
 Please see the [HPE Metered and Switched Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.

### HPE Uninterruptible Power Systems (UPS)

To learn more, please visit the [HPE Uninterruptible Power Systems \(UPS\) web page](#).  
 Please see the [HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs](#) for information on these products and their specifications.  
 Please see the [HPE Line Interactive Single Phase UPS QuickSpecs](#) for information on these products and their specifications.

### HPE Rack Options

Please see the [HPE KVM Switches web page](#) for information on these products and their specifications.

#### Rail Kits

Ball bearing and Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.  
 To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (695539-001).  
 CTO servers do not ship with rail kits, they need to be ordered separately

**Notes:** 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 1U Small Form Factor Easy Install Rail Kit	734807-B21
<b>Notes:</b> <a href="#">HPE 1U Cable Management Arm for Rail Kit (734811-B21)</a> .	
HPE 1U Cable Management Arm for Rail Kit	734811-B21

### HPE USB and SD Options

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

HPE 32GB microSD Flash Memory Card	700139-B21
HPE 8GB microSD Flash Memory Card	726116-B21
HPE 8GB microSD Flash USB Drive	737953-B21
HPE 8GB Dual microSD Flash USB Drive	741279-B21
HPE 32GB microSD RAID 1 USB Boot Drive	P21868-B21

### HPE Support Services

#### Proactive Care

HPE 3 Year Proactive Care 24x7 DL325 Gen10 Service	HB4H1E
HPE 3 Year Proactive Care 24x7 with DMR DL325 Gen10 Service	HB4H2E
HPE 3 Year Proactive Care 24x7 with CDMR DL325 Gen10 Service	HB4H3E

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## Additional Options

### Foundation Care

HPE 3 Year Foundation Care 24x7 DL325 Gen10 Service	HB4G8E
HPE 3 Year Foundation Care 24x7 with DMR DL325 Gen10 Service	HB4G9E
HPE 3 Year Foundation Care 24x7 with CDMR DL325 Gen10 Service	HB4H0E

### Installation & Startup Services

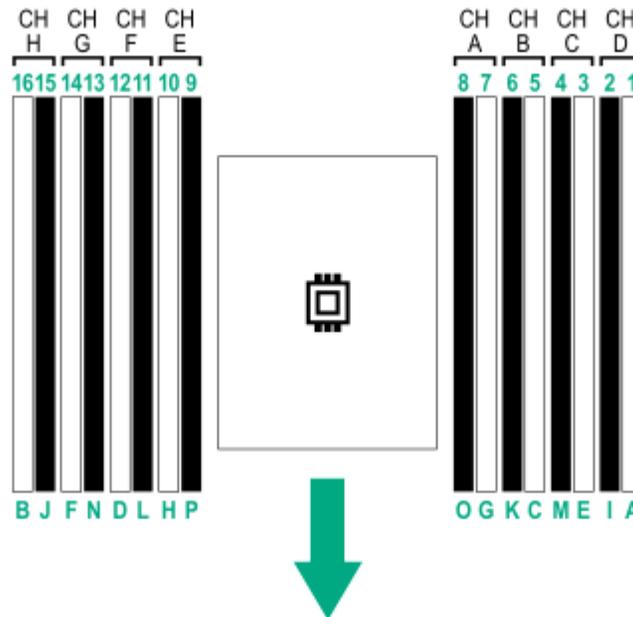
HPE Install ProLiant DL3xx Service	U4506E
HPE Installation and Startup DL3xx Service	U4507E

**Notes:** For a full listing of support services available for this server, please visit <https://ssc.hpe.com/>

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## Memory



### General Memory Population Rules and Guidelines:

- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two-processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- When two processors are installed, balance the DIMMs across the two processors.
- White DIMM slots denote the first slot to be populated in a channel.
- Mixing of DIMM types (UDIMM, RDIMM, and LRDIMM) is not supported.
- 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 number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, the number and model of installed processors qualified on the platform.
- For details on the HPE Server Memory Options Population Rules, visit: <http://www.hpe.com/docs/amd-population-rules>
- To realize the performance memory capabilities listed in this document, HPE DDR4 SmartMemory is required. For additional information, please see the: [HPE DDR4 Smart Memory QuickSpecs](#)
- For details on the HPE Server Memory speed, visit: <http://www.hpe.com/docs/amd-speed-tables>

#### Notes:

- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- Model 7251 1 DIMM per channel is 2400 MT/s.

For details on the HPE Server Memory speed, visit: <http://www.hpe.com/docs/amd-speed-tables>

### DDR4 memory options part number decoder

#### Notes:

- Capacity references are rounded to the common gigabyte (GB) values.  
 8GB = 8,192 MB  
 16GB = 16,384 MB  
 32GB = 32,768 MB  
 64GB = 65,536 MB

For more information on memory, please see the Memory QuickSpecs: [HPE DDR4 SmartMemory](#)



Storage



4LFF drives



8SFF + Optional 2SFF (SAS/SATA or NVMe) Shown



## Technical Specifications

### System Unit

<b>Dimensions</b>	4.29 x 43.46 x 61.49 cm 1.69 x 17.11 x 24.21 in	
<b>Weight</b> (approximate)	10 kg 22.05 lb	Minimum: 8 SFF chassis with 8 HDD blanks, 2x Drive Bay blanks, 1x processor including standard heatsink, 2x DIMMs, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above)
	15.60 kg 35.27 lb	Maximum: 10 SFF hard drives, 1x processors, 2x power supplies, 1x Smart Array, 2x Risers installed, 16x DIMMs, 2x power supply, cables for the above)
<b>Input Requirements</b> (per power supply)	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC
<b>BTU Rating</b>	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only
<b>Power Supply Output</b> (per power supply)	Rated Steady-State Power	For 1600W Power Supply: 1600W (at 240 VAC), 1600W (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 1600W Power Supply: 1600W (at 200 to 240 1VAC), 1600W (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
<b>System Inlet Temperature</b>	Standard Operating Temperature	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. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).
	Extended Ambient Operating Temperature	For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: <a href="http://www.hpe.com/servers/ashrae">http://www.hpe.com/servers/ashrae</a> For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: <a href="http://www.hpe.com/servers/ashrae">http://www.hpe.com/servers/ashrae</a> System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).

## Technical Specifications

<b>Relative Humidity</b> (non-condensing)	Operating	8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing..
<b>RTC Accuracy</b>	50 PPM	
<b>Altitude</b>	Operating	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

### Acoustic Noise

Listed are the declared A-Weighted sound power levels ( $L_{WAd}$ ) and declared average bystander position A-Weighted sound pressure levels ( $L_{pAm}$ ) 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). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below.

<b>Idle</b>	
LWAd	<ul style="list-style-type: none"> <li>• 4.8 B Entry</li> <li>• 4.8 B Base</li> <li>• 4.8 B Perf</li> </ul>
LpAm	<ul style="list-style-type: none"> <li>• 32 dBA Entry</li> <li>• 34 dBA Base</li> <li>• 35 dBA Perf</li> </ul>
<b>Operating</b>	
LWAd	<ul style="list-style-type: none"> <li>• 5.2 B Entry</li> <li>• 5.2 B Base</li> <li>• 5.2 B Perf</li> </ul>
LpAm	<ul style="list-style-type: none"> <li>• 37 dBA Entry</li> <li>• 38 dBA Base</li> <li>• 37 dBA Perf</li> </ul>

### Notes:

- Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only.
- 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.
- The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

### Emissions Classification (EMC) – Regulatory Information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:

<http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>

### HPE Smart Array

For latest information on **HPE Smart Array Gen10 Controllers for HPE ProLiant DL, ML and Apollo Servers** please refer to their QuickSpecs. (E208i-a,E208i-p,E208e-p,P408i-a,P408i-p,P408e-p,P816i-a)



## Technical Specifications

### 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.

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.

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## Summary of Changes

Date	Version History	Action	Description of Change
01-Jun-2020	Version 20	Changed	Pre-configured Models and Core Options sections were updated.
06-Apr-2020	Version 19	Changed	Standard Features, Configuration Information and Core Options sections were updated.
17-Feb-2020	Version 18	Changed	Overview, Standard Features, Configuration Information, and Pre-configured Models sections were updated.
02-Dec-2019	Version 17	Changed	Configuration Information, Core Options and Additional Options sections were updated.
04-Nov-2019	Version 16	Changed	Configuration Information section was updated.
07-Oct-2019	Version 15	Changed	Overview, Standard Features, Pre-configured Models, Configuration Information, Core Options and Additional Options sections were updated.
03-Sep-2019	Version 14	Changed	Overview, Standard Features, Pre-configured Models, Core Options and Technical Specifications sections were updated.
26-Aug-2019	Version 13	Changed	Overview, Standard Features, Pre-configured Models, Core Options and Memory sections were updated.
05-Aug-2019	Version 12	Changed	Configuration Information and Core Options sections were updated.
01-Jul-2019	Version 11	Changed	SKUs description were updated
03-Jun-2019	Version 10	Changed	Overview, Standard Features, Optional Features, Service and Support, Configuration Information, Core Options, Additional Options and Memory sections were updated. The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information
15-Apr-2019	Version 9	Changed	SKUs were updated.
02-Apr-2019	Version 8	Changed	Overview, Standard Features, Core Options and Additional Options sections were updated.
04-Feb-2019	Version 7	Changed	Optional Features section was updated.
10-Dec-2018	Version 6	Changed	SKU 829335-B21 was deleted from Core Options section
03-Dec-2018	Version 5	Changed	Overview and Standard Features sections were updated SKUs were Added and deleted in Core Options
01-Oct-2018	Version 4	Changed	Standard Features, Pre-configured Models, Configuration Information, Additional Options, Memory and Core Options sections were updated. SKU descriptions were updated.
13-Aug-2018	Version 3	Added	HPE Support Services section was added to the QuickSpecs.
06-Aug-2018	Version 2	Changed	Configuration Information – Factory Integrated Models, Core Options, and Additional Options were revised.
02-Jul-2018	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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