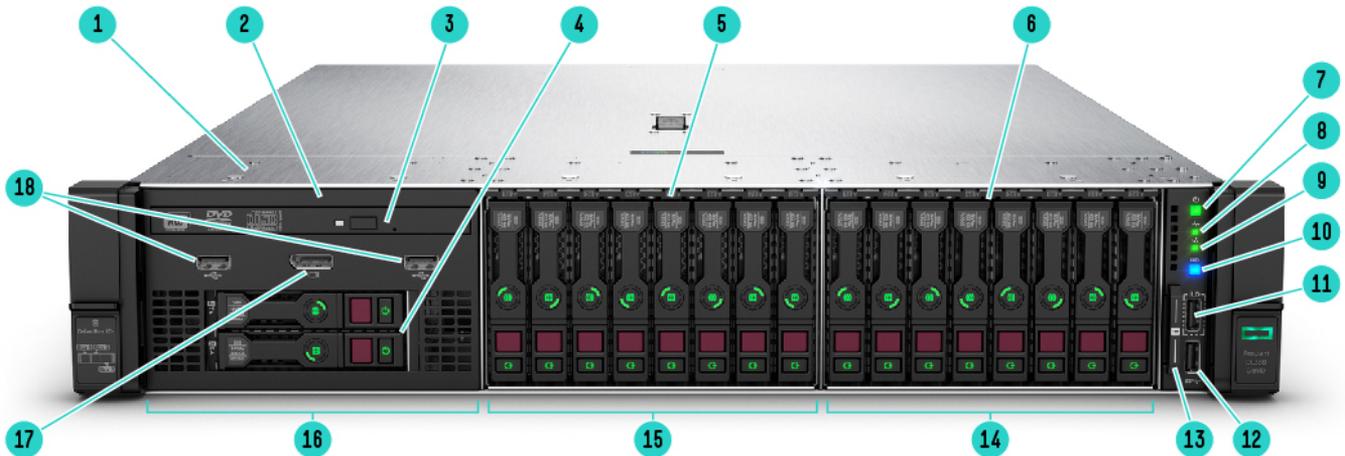


### Overview

#### HPE ProLiant DL385 Gen10 Server

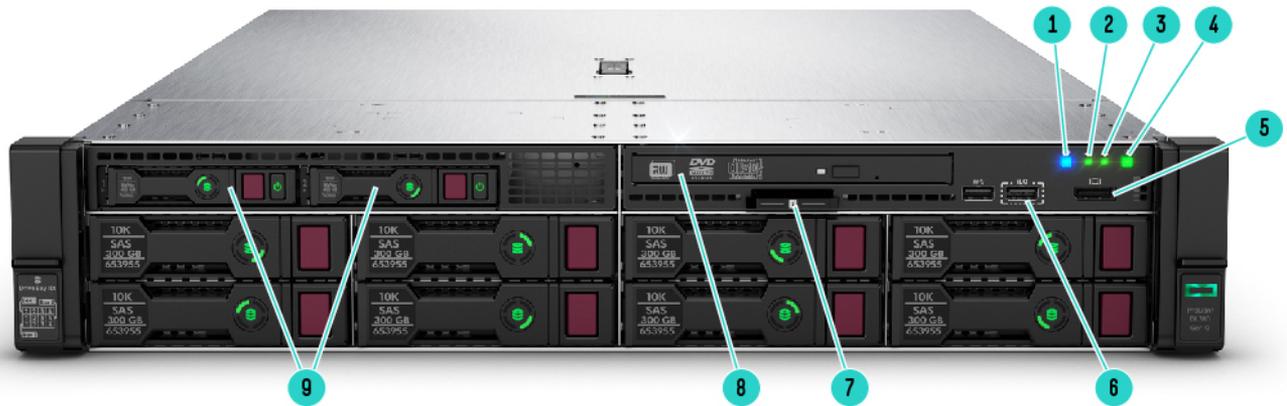
The HPE ProLiant DL385 Gen10 Server is redefining price/performance with the new math for virtualized compute. This 2P, 2U server has been designed with flexibility while delivering a high maximum core count and large memory footprint. Choose this purpose-built platform for virtualization.



#### Front View – SFF chassis with optional Universal Media bay with optical and 2 NVMe plus 16 NVMe shown

1. Quick removal access panel
2. Drive Bay 1. Optional Universal Media bay. 2 USB 2.0 and Display port standard shown (8 SFF bay or 6 SFF+2NVMe or 8NVMe optional)
3. Optional Optical drive. Requires Universal Media bay
4. Optional 2 SFF HDD, requires optional Universal Media bay
5. Drive Bay 2. NVMe shown (8 SFF, 6SFF+2NVMe or 8 NVMe PCIe SSD optional)
6. Drive Bay 3. NVMe shown (8 SFF, 6SFF+2NVMe or 8 NVMe PCIe SSD optional)
7. Power On/Standby button and system power LED button
8. Health LED
9. NIC status
10. UID button
11. iLO Front Service Port
12. USB 3.0
13. Serial label pull tag
14. Box 3
15. Box 2
16. Box 1
17. Optional front display port (Via Universal Media Bay)
18. Optional USB 2.0 (via Universal Media Bay)

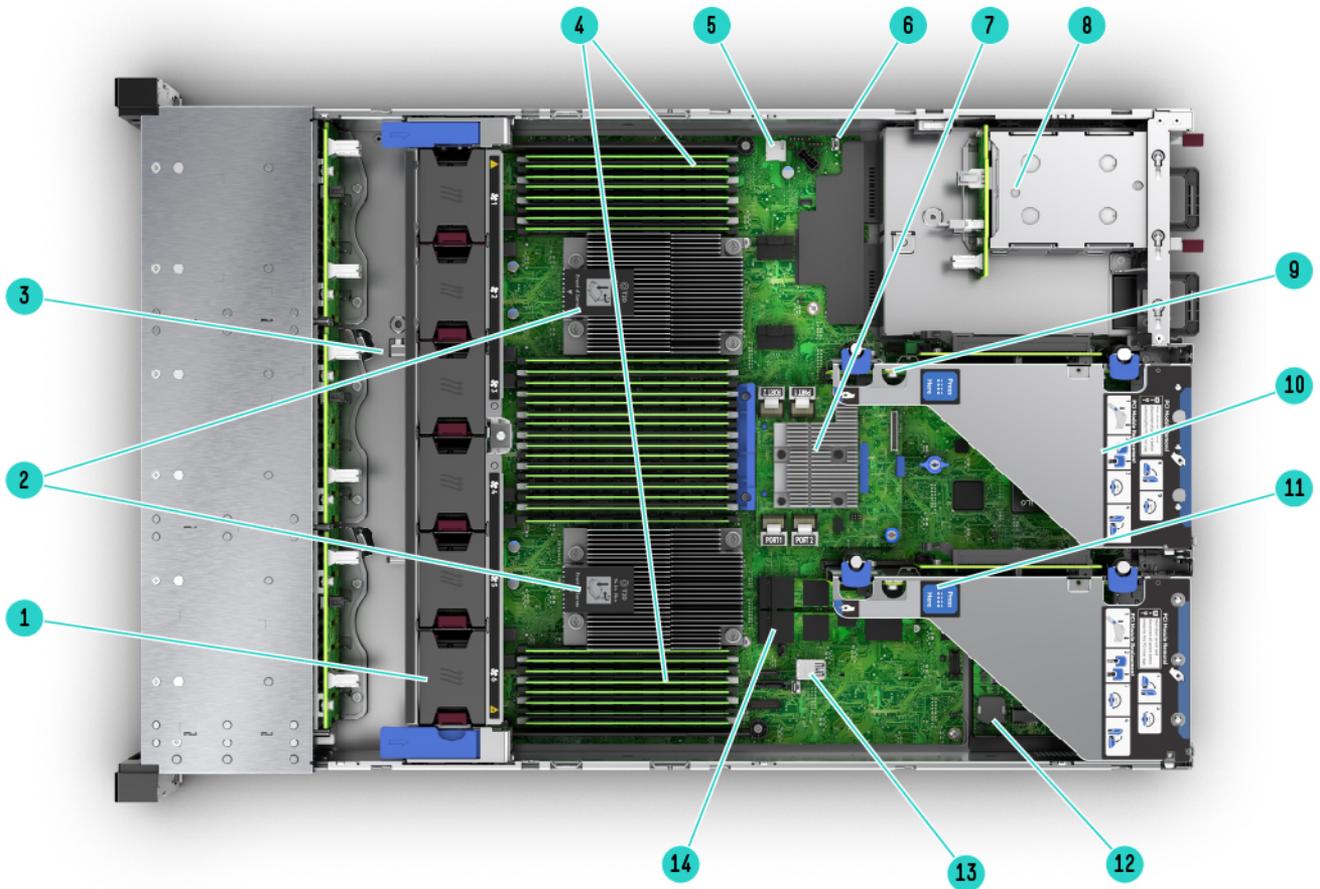
## Overview



### Front View – 8LFF chassis with Universal media bay and optional 2SFF and optical drive shown

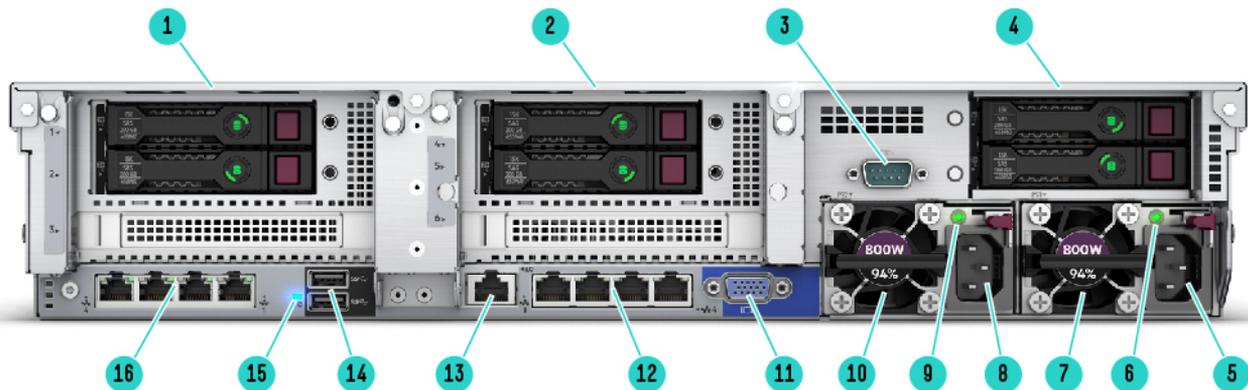
1. Unit ID button
2. Health LED
3. NIC status
4. Power On/Standby button and system power LED button
5. Front display port
6. iLO Front Service Port
7. Serial label pull tag
8. Optional optical drive shown (blank as standard)
9. Optional 2 SFF Drive bay, 2 NVMe shown

## Overview


**Internal View 8SFF chassis – with optional 2<sup>nd</sup> CPU, FlexLOM, Smart array shown**

- |  |  |
|--|--|
| 1. Fan cage shown with 6 standard Hot-plug fans (High Performance fans optional) | 2. 2 Processors (heatsinks shown)  |
| 3. Optional HPE Smart Storage Battery (not shown)                                | 4. DDR4 DIMM slots. Shown fully populated in 32 slots (16 per processor) |
| 5. MicroSD card slot (Optional Dual Micro-SD option)                             | 6. Chassis intrusion detection connector                                 |
| 7. Optional HPE Flexible Smart Array Controller (P408i-a shown)                  | 8. (Under) Hot Plug redundant HPE Flexible Slot Power supplies           |
| 9. Connection for second (optional) riser (Requires second CPU)                  | 10. Embedded 4x1Gbe NIC  |
| 11. Primary PCIe riser, standard (Optional double wide GPU riser)                | 12. Optional Flexible LOM slot   |
| 13. Internal USB 3.0 connector   | 14. Embedded M.2 connectors  |

## Overview



### Rear View – With optional FlexLOM, Rear drives and Serial port shown.

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Primary Riser. PCI Slots (Slots 1-3 top to bottom, riser shipped standard, not shown) Optional 2SFF rear drives</li> <li>3. Optional serial port</li> <li>5. Power supply power connection. Bay 1</li> <li>7. HPE Flexible Slot Power Supply. Bay 1</li> <li>9. Power supply Power LED Bay 2</li> <li>11. VGA connector</li> <li>13. Dedicated iLO management port</li> <li>15. Unit ID LED</li> </ol> | <ol style="list-style-type: none"> <li>2. Secondary Riser. PCI Slots (Slots 4-6 top to bottom, not shown, requires second riser card, and second processor). Optional 2 SFF rear drives</li> <li>4. Tertiary Riser (Slots 7-8 top to bottom, not shown). Optional rear 2 SFF HDD</li> <li>6. Power supply Power LED. Bay1</li> <li>8. Power supply Power connection Bay 2</li> <li>10. HPE Flexible Slot Power Supply Bay 2</li> <li>12. Embedded 4 x 1GbE Network Adapter</li> <li>14. USB connectors 3.0 (2)</li> <li>16. Optional FlexibleLOM ports (Shown: 4 x 1GbE)</li> </ol> |
|--|---|

### What's New:

- 32 DIMM slots
- AMD® EPYC® 7000 Processor Family
- Two embedded M.2 connectors on the system board
- GPU support available 1H2018
- Highly flexible drive options (SSD, M.2, NVMe)

## Overview

### Platform Information

<b>Form Factor</b>	2U rack
<b>Chassis Types</b>	<p>8 SFF with optional Universal Media Bay, and optional SFF or NVMe drive bay options 24 SFF bay with additional 6SFF rear drive bay option to total 30 SFF drives 8 LFF with Universal Media Bay 12 LFF with optional 4 LFF mid-plane and optional 3LFF + 2 SFF rear drive bay to total 19 LFF drives + 2 SFF drives</p> <p><b>NOTE:</b> The 3 LFF rear drive box will consume space for the secondary and tertiary riser. <b>NOTE:</b> The 8 and 12 LFF chassis also supports the 2 SFF rear drive box which allows for the user to attach a secondary or tertiary riser. <b>NOTE:</b> The 8 NVMe drive option (826689-B21) can only be leveraged in the SFF chassis and replaces Box 1, 2 or 3. <b>NOTE:</b> The Premium cage (826690-B21, 6 SAS/SATA+2 NVMe) can only be leveraged in the SFF chassis and replaces Box 1, 2 or 3. <b>NOTE:</b> The Universal Media Bay (882097-B21) not available with the LFF chassis or the 24 SFF front end, and can only be populated in Box 1. <b>NOTE:</b> The 8 SFF can be upgraded with additional 8SFF drive box to total 16 or 24 SFF drives. For optimal upgrade Box 2 should be populated second, with Box 1 the last to be populated for a field upgrade to 24 SFF. For CTO builds requiring 24 SFF please use the 24 SFF chassis (878613-B21). Note a field upgrade to 24 SFF will require a High Performance fan kit (867810-B21). <b>NOTE:</b> The 8 LFF chassis cannot be upgraded to 12 LFF front in the field; however the 4-LFF Mid plane (882096-B21) is supported, but will also require a performance fan kit (867810-B21). <b>NOTE:</b> CPU selection is limited 125W or lower with 4LFF midtray selected. <b>NOTE:</b> The 8LFF chassis ships with 6-standard fans. <b>NOTE:</b> All models come with the S100i Smart Array Controller (Available 2H2018) with embedded software RAID support for the 2 embedded M.2 drive connectors on the system board.</p>
<b>System Fans</b>	<p>Standard – fan types included</p> <p><b>NOTE:</b> 1P models ship with 4 standard fans. The second processor option kit contains 2 additional fans. <b>NOTE:</b> The 12 LFF and 24 SFF chassis ship with 6 High performance fans as standard. <b>NOTE:</b> The 8LFF chassis ships with 6 standard fans as standard. <b>NOTE:</b> High performance fan kit is available to meet ambient temperature environments. <b>NOTE:</b> High performance fan kits are required for rear drives, Graphics (GPU) card or NVMe configurations.</p>

## Standard Features

### Standard Features

Processors – Up to 2 of the following depending on model.

**NOTE:** For more information regarding AMD EPYC processors, please see the following <https://www.amd.com/en/products/epyc>

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 7551	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 7401	24	2.0Ghz	3.0Ghz	2TB	155/170	64MB	2400/2666MT/S
EPYC 7351	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 7251	8	2.1Ghz	2.9Ghz	2TB	120	32MB	2400MT/S

**NOTE:** 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

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

### Memory

One of the following depending on model

Type:		HPE DDR4 SmartMemory, Registered (RDIMM), Load Reduced (LRDIMM)
DIMM Slots Available	32	16 DIMM slots per processor, 8 channels per processor, 2 DIMMs per channel
Maximum capacity (LRDIMM)	4.0 TB	32 x 128 GB LRDIMM @ 2666 MHz
Maximum capacity (RDIMM)	1.0 TB	32 x 32 GB RDIMM @ 2666 MHz

**NOTE:** The maximum memory speed is limited by the processor selection.

**NOTE:** Mixing of RDIMM and LRDIMM memory is not supported.

**NOTE:** 128GB support is available 2H2018.

## Standard Features

### Expansion Slots

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

**NOTE:** 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	X8	X8	Full-height, full-length slot	Proc 2
2	PCIe 3.0	X16	X16	Full-height, full-length slot	Proc 2
3	PCIe 3.0	X8	X8	Full-height, half-length slot	Proc 2

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

**NOTE:** Tertiary riser (other options available) can be leveraged without secondary riser.

**NOTE:** 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

**NOTE:** 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.

**NOTE:** HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled.

**NOTE:** The S100i supports the 2 M.2 system board connectors.

**NOTE:** S100i is available 2H2018.

**Essential RAID Controller** HPE Smart Array E208i-a SR Gen10 Controller  
HPE Smart Array E208i-p SR Gen10 Controller  
HPE Smart Array E208e-p SR Gen10 Controller

**Performance RAID Controller** HPE Smart Array P408i-a SR Gen10 Controller  
HPE Smart Array P408i-p SR Gen10 Controller  
HPE Smart Array P408e-p SR Gen10 Controller  
HPE Smart Array P816i-a SR Gen10 Controller

## Standard Features

**NOTE:** 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	Ships standard in Performance Models Optional: DVD-ROM, DVD-RW
Hard Drives	None ship standard

### Maximum Internal Storage

	CAPACITY	CONFIGURATION
Hot Plug SFF SAS	72.0 TB	24+6 x 2.4 TB* (with optional rear SFF drive cage)
Hot Plug SFF SATA	60.0 TB	24+6 x 2 TB (with optional SFF drive cage)
Hot Plug LFF SAS	235.68 TB	12+4+3 x 12 TB + 2 x 3.84 TB (with optional mid-tray and rear LFF drive cage, plus 2 SFF SSD rear)
Hot Plug LFF SATA	235.68 TB	12+4+3 x 12 TB + 2 x 3.84 TB (with optional mid-tray and rear LFF drive cage, plus 2 SFF SSD rear)
Hot Plug SFF SAS SSD	230.4 TB	24+6 x 7.68 TB (with optional rear SFF drive cage)
Hot Plug LFF SATA SSD	44.16 TB	12+4+3 x 1.92 TB + 2 x 3.84 TB (with optional mid-tray and rear LFF drive cage, plus 2 SFF SSD rear)
Hot Plug SFF NVMe PCIe SSD	38.4 TB NVMe	24 x 1.6 TB NVMe

**NOTE:** 2x m.2 drives are supported on the system board.

**NOTE:** uFF drives are also supported.

### Power Supply

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

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

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

**NOTE:** Available in 94% and 96% efficiency.

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

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

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

**NOTE:** 240v power input only.

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](#).

### Interfaces

Serial	Optional, rear
Display Port	1 (SFF 1 front, optional via Universal Media Bay, 882097-B21), 8 LFF chassis standard
FlexibleLOM Network Ports	4 x 1 Gb ports shipping standard with optional FlexibleLOM or stand up card

## Standard Features

HPE iLO Remote Management Network Port	1 Gb Dedicated
Front iLO Service Port	1 standard (Not available on 12 LFF chassis or when SID is ordered, note iLO dongle required, 880123-B21)
Micro SD Slot	1 Micro SD
<b>NOTE:</b> The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.	
USB 3.0	Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay, or standard on 8LFF chassis
SID (Systems Insight Display)	Optional

**NOTE:** Not shipping as standard. Available as a CTO option or as a field upgrade (882099-B21).

## Operating Systems and Virtualization Software Support for ProLiant Servers

**Windows Server 2012 R2** (Most Recent Version)

**Windows Server 2016** (Most Recent Version)

**VMware ESXi 6.5 and U1** upon release

**Red Hat Enterprise Linux (RHEL) 7.4**

**SUSE Linux Enterprise Server (SLES) 12 SP3**

**NOTE:** For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server.

<https://www.hpe.com/us/en/servers/server-operating-systems.html>

## Industry Standard Compliance

ACPI 6.1 Compliant

PCIe 3.0 Compliant

WOL Support

Microsoft® Logo certifications

PXE Support

VGA/Display Port

**NOTE:** This support is on the optional Universal Media Bay.

USB 3.0 Compliant (internal)

USB 2.0 Compliant (external ports via SUV)

**NOTE:** This support is on the optional Universal Media Bay.

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

ASHRAE A3/A4

**NOTE:** For additional technical thermal details regarding ambient temperatures, humidity and features support please visit:

## Standard Features

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

UEFI (Unified Extensible Firmware Interface Forum)

**NOTE:** UEFI is the default for the DL385 Gen10. Legacy mode can be selected in the field or as a CTO option (758959-B22).

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### 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
- 

### 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.

**NOTE:** The UEFI System Utilities tool is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <http://www.hpe.com/servers/uefi>.

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

- Secure Boot 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
- Platform Trust Technology (PTT) can be enabled.
- iSCSI Software Initiator Support.
- HTTP/HTTPS Boot support as a PXE alternative.
- Boot support for option cards that only support a UEFI option ROM

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

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

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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>.

#### UEFI

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

#### Intelligent Provisioning

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

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## Standard Features

**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>.

**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>.

**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 <http://www.hpe.com/info/smartupdate>.

**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>.

**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>.

**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>.

**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/stk> or <http://www.hpe.com/servers/powershell>.

**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>.

**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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## Standard Features

### 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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### 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.

**NOTE:** Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: <http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/>.

## Optional Features

### Server Management

#### HPE 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. Learn more about HPE iLO Advanced at <http://www.hpe.com/servers/iloadvanced>.

#### HPE iLO Advanced Premium Security Edition

HPE iLO Advanced Premium Security Edition for iLO 5 includes iLO Advanced License plus high-end security modes, unique security capabilities, like Automatic FW recovery; Runtime FW verification, and Secure erase. Learn more about HPE iLO Advanced Premium Security Edition at: <http://www.hpe.com/servers/ilopremium>.

#### 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 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>.

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### Accelerator and GPGPU 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 your 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

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### One Config Simple (SCE)

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

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

## Service and Support

### HPE Pointnext - Service and Support

#### Protect your business beyond warranty with HPE Support Services

HPE Pointnext provides a comprehensive portfolio including Advisory and Transformational, Professional, and Operational Services to help accelerate your digital transformation. From the onset of your transformation journey, Advisory and Transformational Services focus on designing the transformation and creating a solution roadmap. Professional Services specializes in creative configurations with flawless and on-time implementation, and on-budget execution. Finally, operational services provides innovative new approaches like Flexible Capacity and Datacenter Care, to keep your business at peak performance. HPE is ready to bring together all the pieces of the puzzle for you, with an eye on the future, and make the complex simple.

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#### Connect your devices:

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

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##### Parts and Materials

HPE 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 HPE due to malfunction.

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## Pre-configured Models

	Entry Models		
<b>[SKU Number]</b>	878712-xx1	878714-xx1	878714-AA1
<b>Model Name</b>	Entry LFF	Entry SFF	Entry SFF
<b>Processor</b>	7251 (8-Core, 2.1 GHz, 120W)	7251 (8-Core, 2.1 GHz, 120W)	7251 (8-Core, 2.1 GHz, 120W)
<b>Number of Processors</b>	One processor	One processor	One processor
<b>Memory</b>	16 GB RDIMM DR 2600 MT/s (1x 16 GB)	16 GB RDIMM DR 2600 MT/s (1x 16 GB)	8 GB RDIMM DR 2600 MT/s (1x 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	HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card
<b>Storage Controller</b>	Embedded S100i for 2 x M.2 Connectors E208i-a <b>NOTE: 8-Port modular Smart Array.</b>	Embedded S100i for 2 x M.2 Connectors E208i-a <b>NOTE: 8-Port modular Smart Array.</b>	Embedded S100i for 2 x M.2 Connectors E208i-a <b>NOTE: 8-Port modular Smart Array.</b>
<b>Hard Drive</b>	None ship as standard	None ship as standard	None ship as standard
<b>Internal Storage</b>	8 LFF chassis, with 2 SFF bays optional (upgradeable to 15LFF with 4LFF mid and 3LFF rear + 2SFF rear)	8 SFF Chassis (upgradeable to 24 SFF front + 6SFF rear)	8 SFF Chassis (upgradeable to 24 SFF front + 6SFF rear)
<b>Optical Drive Bay</b>	Optional via Universal Media Bay (included)	Optional Universal Media Bay (882097-B21)	Optional Universal Media Bay (882097-B21)
<b>Optical Drive</b>	None ship as standard	None ship as standard	None ship as standard
<b>PCI-Express Slots</b>	3-slots (x8, x16, x8) as standard	3-slots (x8, x16, x8) as standard	3-slots (x8, x16, x8) as standard
<b>Power Supply</b>	1x 500W HPE FlexSlot Power Supply	1x 500W HPE FlexSlot Power Supply	1x 500W HPE FlexSlot Power Supply
<b>Fans</b>	4-standard fans	4-standard fans	4-standard fans
<b>Management</b>	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download); HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced (require licenses)		
<b>Energy Star</b>	2.1 certified		
<b>Form Factor</b>	2U 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

	Base Model	
<b>[SKU Number]</b>	878716-xx1	878718-xx1
<b>Model Name</b>	Base LFF	Base SFF
<b>Processor</b>	7251 (8-Core, 2.1 GHz, 85W)	7301 (16-Core, 2.2 GHz, 170W)
<b>Number of Processors</b>	One processor	One processor
<b>Memory</b>	32 GB RDIMM DR 2666 MT/s (2x 16 GB)	32 GB RDIMM DR 2600 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>	P816i-a <b>NOTE: 16-Port modular Smart Array. NOTE: Smart Storage battery included.</b>	P408i-a <b>NOTE: 8-Port modular Smart Array. NOTE: Smart Storage battery included.</b>
<b>Hard Drive</b>	None ship as standard	None ship as standard
<b>Internal Storage</b>	12 LFF chassis (upgradeable to 19LFF with 4LFF mid and 3LFF rear + 2SFF)	8 SFF Chassis (upgradeable to 24 SFF front + 6SFF rear)
<b>Optical Drive Bay</b>	Optional via Universal Media Bay (included)	Optional Universal Media Bay (882097-B21)
<b>Optical Drive</b>	None ship as standard	None ship as standard
<b>PCI-Express Slots</b>	3-slots (x8, x16, x8) as standard	3-slots (x8, x16, x8) as standard
<b>Power Supply</b>	2x 800W HPE FlexSlot power supply	1x 500W HPE FlexSlot power supply
<b>Fans</b>	6-High Performance fans	4-standard fans
<b>Management</b>	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download); HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced (require licenses)	
<b>Energy Star</b>	2.1 certified	
<b>Form Factor</b>	2U Rack, Easy install rails with CMA	
<b>Warranty</b>	3-year parts, 3-year labor, 3-year onsite support with next business day response	

## Pre-configured Models

	Base Model	Performance Model	High Performance Model
<b>[SKU Number]</b>	878720-xx1	878722-xx1	878724-xx1
<b>Model Name</b>	Base 24SFF	Performance	High-Performance
<b>Processor</b>	7401 (24-Core, 2.0GHz, 170W)	7451 (24-Core, 2.3 GHz, 180W)	7451 (24-Core, 2.0 GHz, 180W)
<b>Number of Processors</b>	One Processor	Two processors	Two processors
<b>Memory</b>	32 GB RDIMM DR 2600 MT/s (2x 16 GB)	64 GB RDIMM DR 2666 MT/s (2x 32 GB)	64 GB RDIMM DR 2666 MT/s (2x 32 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 HPE Ethernet 10/25 Gb 2-port 640FLR-SFP28 Adapter (817749-B21)	HPE 1Gb Ethernet 4-Port 331i Adapter plus HPE Ethernet 25 Gb 2-port 631FLR Adapter (817709-B21)
<b>Storage Controller</b>	P408i-a w/Expander <b>NOTE: 8-Port modular Smart Array.</b> <b>NOTE: Smart Storage battery included.</b>	P408i-a <b>NOTE: 8-Port modular Smart Array.</b> <b>NOTE: Smart Storage battery included.</b>	P408i-a w/Expander <b>NOTE: 8-Port modular Smart Array.</b> <b>NOTE: Smart Storage battery included.</b>
<b>Hard Drive</b>	None ship as standard	None ship as standard	None ship as standard
<b>Internal Storage</b>	8 SFF Chassis (upgradeable to 24 SFF front + 6SFF rear)	8 SFF Chassis (upgradeable to 24 SFF front + 6SFF rear)	8 SFF Chassis (upgradeable to 24 SFF front + 6SFF rear)
<b>Optical Drive Bay</b>	Optional Universal Media Bay (882097-B21)	Universal Media Bay (882097-B21)	Universal Media Bay (882097-B21)
<b>Optical Drive</b>	None ship as standard	DVD-RW	DVD-RW
<b>PCI-Express Slots</b>	3-slots (x8, x16, x8) as standard	8 total: 3-slots (x8, x16, x8) as standard, plus 3 PCIe (x8, x16, x8), 2 PCIe (x8) Tertiary Riser Kit	8 total: 3-slots (x8, x16, x8) as standard, plus 3 PCIe (x8, x16, x8), 2 PCIe (x8) Tertiary Riser Kit
<b>Power Supply</b>	1x 800W HPE FlexSlot power supply	2x 800W HPE FlexSlot power supply	2x 800W HPE FlexSlot power supply
<b>Fans</b>	6-High Performance fans		
<b>Management</b>	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download); HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced (require licenses)		
<b>Energy Star</b>	2.1 certified		
<b>Form Factor</b>	2U Rack, Easy Install rails with CMA		
<b>Warranty</b>	3-3-3		

Country Code Key xx1 = B21

Worldwide

**NOTE: The -B21 WW SKU is to be ordered in all countries other than Japan.**

xx1 = 291

Japan

## Configuration Information - Factory Integrated Models

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an 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)

<b>CTO Server</b>	HPE ProLiant DL385 Gen10 8 LFF CTO Server	HPE ProLiant DL385 Gen10 12 LFF CTO Server	HPE ProLiant DL385 Gen10 8 SFF CTO Server	HPE ProLiant DL385 Gen10 24 SFF CTO Server
<b>SKU Number</b>	878615-B21	878614-B21	878612-B21	878613-B21
<b>TAA SKU</b>	878619-B21	878618-B21	878616-B21	878617-B21
<b>Processor</b>	Not included as standard	Not included as standard	Not included as standard	Not included as standard
<b>DIMM Slots</b>	32-DIMM slots	32-DIMM slots	32-DIMM slots	32-DIMM slots
<b>Storage Controller</b>	Embedded s100i SW RAID for 2 x M.2 SATA support, choice of HPE modular Smart Array and PCIe plug-in controller			
<b>PCIe</b>	Three standard in primary riser			
<b>Drive Cage - included</b>	8 LFF	12 LFF	8 SFF	24 SFF
<b>Network Controller</b>	HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card			
<b>Fans</b>	6-Standard	6-High Performance	4-Standard	6-Performance
<b>Management</b>	HPE iLO with Intelligent Provisioning (standard), iLO Advances and OneView (optional)			
<b>USB</b>	1x 3.0 standard plus iLo front service port	None as standard	1x 3.0 standard plus iLo front service port	1x 3.0 standard plus iLo front service port

**NOTE:** 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).

**NOTE:** TAA chassis are only orderable in North America and Canada.

**NOTE:** The HPE ProLiant DL385 Gen10 12 LFF CTO Server ships with the cable required for the P816i-a installation.

**NOTE:** All CTO servers are Energy Star 2.1 compliant.

## Configuration Information - Factory Integrated Models

<b>CTO Server</b>	8 SFF CTO Chassis	24 SFF CTO Chassis	8 LFF CTO Chassis	12 LFF CTO Chassis
<b>Included Drive Cage</b>	8 SFF SAS/SATA	3x 8 SFF SAS/SATA	8 LFF + UMB	12 LFF Chassis
<b>Additional drive cages</b>				
<b>Universal Media Bay</b>	1 Optional	Not available	1 Included	Not available
<b>ODD</b>	1 Optional with UMB	Not available	1 Optional	Not available
<b>8 SFF Drive Cage</b>	Up to 2 Optional	Not available	Not available	Not available
<b>8 NVME/SAS Bay</b>	Up to 3 Optional	Not available	Not available	Not available
<b>8 NVMe Cage</b>	Up to 3 Optional	Not available	Not available	Not available
<b>2 SFF SAS/SATA (Front)</b>	1 Optional with UMB	Not available	1 Optional	Not available
<b>2 SFF SAS/SATA (Rear)</b>	1 Optional	1 Optional	1 Optional	1 Optional
<b>2 NVMe (Front)</b>	1 Optional with UMB	Not available	1 Optional	Not available
<b>4 LFF Mid-plane</b>	Not available	Not available	1 Optional	1 Optional
<b>3 LFF Rear</b>	Not available	Not available	1 Optional	1 Optional

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

### Step 2a: Choose Required Options - Processors

(only one of the following unless otherwise noted)

Please select one –L21 processor required below.

For second processor, please select the same processor model with –B21 from Core Options – HPE Processors section.

For example: first processor, select 874752-L21 then for second processor, select 874752-B21.

**NOTE:** 8SFF CTO 1P models ship with 4 standard fans. The second processor option kit contains 2 additional fans. 12 LFF and 24 SFF CTO Servers ship with 6 High performance fans included; 8LFF CTO Servers ship with 6 Standard fans included. High performance fan kit is available to meet ambient temperature environments are required for rear drives or NVMe configurations. NVMe is limited to front install only.

**NOTE:** Mixing of 2 different processor models are NOT allowed.

**NOTE:** DDR4 memory speed will depend on the quantity and type of DIMMs installed.

**NOTE:** Processors with greater than 170W will ship with the High Performance heatsink.

**NOTE:** Processors with greater than 170W will require the High Performance fan kit.

#### Processor Option Kits

	<b>Required Processor</b>
HPE DL385 Gen10 AMD EPYC 7601 (2.2GHz/32-core/180W) FIO Processor Kit	881162-L21
<b>NOTE:</b> Ships with Performance Heatsink.	
HPE DL385 Gen10 AMD EPYC 7551 (2.0GHz/32-core/180W) FIO Processor Kit	881163-L21
<b>NOTE:</b> Ships with Performance Heatsink.	
HPE DL385 Gen10 AMD EPYC 7501 (2.0GHz/32-core/155-170W) FIO Processor Kit	881164-L21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC 7451 (2.3GHz/24-core/180W) FIO Processor Kit	881165-L21
<b>NOTE:</b> Ships with Performance Heatsink.	
HPE DL385 Gen10 AMD EPYC 7401 (2.0GHz/24-core/155-170W) FIO Processor Kit	881166-L21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC 7351 (2.4GHz/16-core/155-170W) FIO Processor Kit	881169-L21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC 7301 (2.2GHz/16-core/155-170W) FIO Processor Kit	881170-L21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC 7251 (2.1GHz/8-core/120W) FIO Processor Kit	881171-L21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC 7281 (2.1GHz/16-core/155-170W) FIO Processor Kit	P00645-L21

## Configuration Information - Factory Integrated Models

**NOTE:** Ships with Standard Heatsink.

### 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>

For Gen10 memory speed table, please go to: <http://www.hpe.com/docs/amd-speed-tables>

**NOTE:** Memory DIMM availability with a server platform is dependent upon completion of certification testing.

**NOTE:** The maximum memory speed is a function of the memory type, memory configuration, and processor model.

HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838079-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838081-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) 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

**NOTE:** 128GB support is available 2H2018.

### Step 2c: Choose Power Supplies

Select one or two power supplies from below.

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

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-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

**NOTE:** Select one or more power supplies. For 800W, 4 power supplies need to be selected.

**NOTE:** 1600W Power supplies only support high line voltage (200VAC to 240VAC).

**NOTE:** 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>

**NOTE:** All power supplies in a server should match. Mixing Power Supplies is not supported.

**NOTE:** 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 power cords.

### 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

**NOTE:** DL385 has support for 4x NVMe drives when the second CPU is selected. NVMe cable 871827-B21 is required and supports 2 drives each.

HPE DL38X Gen10 Slot 1/2 x16/x16 FIO Riser Kit	871674-B21
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**NOTE:** Slot 1 or 2 in Primary location.

**NOTE:** Supports Full Height and Full length cards.

**NOTE:** Bus width x16, x16, Connector Width x16, x16.

HPE DL38X Gen10 x16/x16 GPU Slot2/3 FIO Riser Kit	871676-B21
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**NOTE:** Primary Riser, Connector in slot 2 & 3 for GPU support.

**NOTE:** Supports Full Height and Full length cards.

**NOTE:** Bus width x16, x16, Connector Width x16, x16.

**NOTE:** GPU support is available 1H2018.

HPE 4 NVMe Box 1 Instr Spec FIO	878186-B21
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## Configuration Information - Factory Integrated Models

HPE DL38X Gen10 x8/x8/x8 1-port 2 NVMe Slim SAS FIO Riser Kit	871673-B21
<b>NOTE:</b> Supports 3x 8 and 1-port for NVMe.	
<b>NOTE:</b> Supports Full Height and half-length cards.	
<b>NOTE:</b> Bus width x8, x8, x8 Connector Width x8, x8, x8.	
HPE 2 NVMe Instr Spec FIO	878189-B21
<b>NOTE:</b> This is a factory integrated only option.	
<b>NOTE:</b> This will connect 2 SFF cage installed in the front of the chassis to NVMe.	
HPE 6+2 NVMe Instr Spec FIO	878192-B21
<b>NOTE:</b> This is a factory integrated only option.	
<b>NOTE:</b> Indicates the cage will also have an NVMe connection.	
<b>NOTE:</b> When NVMe is selected, the SAS/SATA will no longer function unless the controller selection supports it, or the 3POS cable is selected for S100i connection.	
HPE 8SFF Front Remove SPEC Perf FIO	873763-B21
<b>NOTE:</b> This is a factory integrated only option.	
<b>NOTE:</b> Will remove the Primary 8SFF cage in Box 3 of the 8SFF and replace with a Box blank.	
HPE Riser Remove SPEC FIO	873766-B21
<b>NOTE:</b> This is a factory integrated only option.	
<b>NOTE:</b> Will remove the Primary shipping PCIe riser.	
HPE Legacy FIO Mode Setting	758959-B22
<b>NOTE:</b> UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.	
HPE Memory Fast Fault Tolerance FIO Kit	875293-B21
<b>NOTE:</b> Fast Fault Tolerance is a new feature in Gen10 server memory that enables the system to boot with full memory performance while monitoring for DRAM device failures.	

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

## Core Options

**NOTE:** Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for additional information. Note the <http://www.hpe.com/info/CablingMatrixGen10> can help to explain the cable routing for each option:

### HPE Unique Options

HPE DL38X NVMe 8 Solid State Drive Express Bay Enablement Kit 826689-B21

**NOTE:** This option provides support for up to 8 NVMe drives, and can only be populated in Box 1, Box 2 and Box 3 of the SFF chassis.

**NOTE:** The HPE DL385 Gen10 High Performance fan kit is required for NVMe support (867810-B21).

**NOTE:** The HPE DL38X Gen10 4-port 8 NVMe SlimSAS Riser (867807-B21) is required to support this.

**NOTE:** There are limitations on GPU support with the NVMe bay installed.

HPE DL385 Gen10 Universal Media Bay 882097-B21

**NOTE:** The HPE DL385 Gen10 Universal Media bay provides front Display Port and 2xUSB 2.0; plus support for 2x SFF front drives or 2 NVME front drives (826687-B21, riser required for 1P only. 2P enables on board NVME connections) and ODD support (Not included); and can only be located in Box1 in either an 8 SFF or 8+8 SFF model.

**NOTE:** This is a SFF model option only.

HPE DL38X Gen10 Premium 6 SFF SAS/SATA + 2 NVMe or 8 SFF SAS/SATA Bay Kit 826690-B21

**NOTE:** This kit can be supported in Box 1, 2 or 3 and provides support for up to 8 SFF SAS/SATA or 6 SAS/SATA + 2 NVMe drives per Box.

**NOTE:** With NVMe drives a specific riser is required for 1P only. 2P enables on board NVME connections.

**NOTE:** When adding to Box 1 the addition of the High Performance Fan kit (867810-B21) is required.

HPE DL385 Gen10 High Performance Heatsink Kit 882098-B21

**NOTE:** Required for GPU installations.

**NOTE:** Processor kits above 170W include a High Performance Heatsink.

HPE DL38X Gen10 High Performance Temperature Fan Kit 867810-B21

**NOTE:** This kit is also required to support GPUs configurations.

**NOTE:** This is required for NVMe configurations.

**NOTE:** This kit provides maximum cooling for your Server.

**NOTE:** This kit is required when Box 1, 2 and 3 are populated.

HPE DL38X Gen10 2SFF HDD SAS/SATA Riser Kit 826688-B21

**NOTE:** 2 SFF in the rear is only supported with a 24 SFF model or 12 LFF model.

**NOTE:** In the rear this leaves 1x16 slot accessible.

**NOTE:** Rear drives require the addition of the High Performance Fan kit (867810-B21).

HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit 826687-B21

**NOTE:** Supports 2SFF SAS/SATA/NVMe in Universal Media bay (882097-B21).

**NOTE:** NVMe drives require the addition of the High Performance Fan kit (867810-B21).

**NOTE:** NVMe drives require the addition of an NVMe capable riser and cable for 1P only. 2P enables on board NVME connections .

**NOTE:** Drive cage can be used in the rear of the chassis, but will not support NVMe drives rear.

**NOTE:** Supports uFF drives.

HPE DL38X Gen10 8LFF Front 2SFF SAS/SATA HDD Kit 867805-B21

**NOTE:** Adds support for 2 SFF in front of 8 LFF chassis (878615-B21).

HPE DL38X Gen10 8LFF Front 2NVMe HDD Bay Kit 873781-B21

**NOTE:** Supports 2 NVMe in the Universal Media bay (included) on the 8 LFF model.

**NOTE:** For support of the 2 NVMe drives this will require the addition of the HPE DL38X Gen10 x8/x8/x8 1-port 2 NVMe SlimSAS Riser (867806-B21); or the HPE DL38X Gen10 2-port 4 NVMe SlimSAS Riser (867808-B21), or a second CPU and NVME cable 871827-B21 is required and supports 2 drives each.

**NOTE:** NVMe drives require the addition of the High Performance Fan kit (867810-B21).

## Core Options

HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables	870549-B21
<b>NOTE:</b> SAS expander to enable 24 SFF field upgrade.	
<b>NOTE:</b> Primary population in slot 3 of the primary riser.	
HPE DL385 Gen10 System Insight Display Kit	882099-B21
<b>NOTE:</b> Systems Insight Display no longer ships as standard but is available as a Factory Integrated or field upgrade option.	
HPE DL3XX Gen10 Rear Serial Cable and Enablement Kit	873770-B21

## HPE Processors

### Processor Option Kits

HPE DL385 Gen10 AMD EPYC - 7601 (2.2GHz/32-core/180W) Processor Kit	881162-B21
<b>NOTE:</b> Ships with Performance Heatsink.	
HPE DL385 Gen10 AMD EPYC - 7551 (2.0GHz/32-core/180W) Processor Kit	881163-B21
<b>NOTE:</b> Ships with Performance Heatsink.	
HPE DL385 Gen10 AMD EPYC - 7501 (2GHz/32-core/155-170W) Processor Kit	881164-B21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC - 7451 (2.3GHz/24-core/180W) Processor Kit	881165-B21
<b>NOTE:</b> Ships with Performance Heatsink.	
HPE DL385 Gen10 AMD EPYC - 7401 (2GHz/24-core/155-170W) Processor Kit	881166-B21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC - 7351 (2.4GHz/16-core/155-170W) Processor Kit	881169-B21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC - 7301 (2.2GHz/16-core/155-170W) Processor Kit	881170-B21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC - 7281 (2.1GHz/16-core/155-170W) Processor Kit	P00645-B21
<b>NOTE:</b> Ships with Standard Heatsink.	
HPE DL385 Gen10 AMD EPYC - 7251 (2.1GHz/8-core/120W) Processor Kit	881171-B21
<b>NOTE:</b> Ships with Standard Heatsink.	
<b>NOTE:</b> DDR4 memory speed will depend on the quantity and type of DIMMs installed.	
<b>NOTE:</b> The xxxxxx-L21 is the first processor shipped, the xxxxxx-B21 is the 2nd processor and ships with 2 additional fans for factory or field installation.	
<b>NOTE:</b> Processors above 170W use a High Performance Heatsink.	
<b>NOTE:</b> Processors with greater than 170W will require the High Performance fan kit.	

## Memory Selection

To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability, HPE recommends memory from the list located here: <http://www.hpe.com/products/recommend>. Best product availability is limited to US, Canada, and Latin America at this time.

### HPE Memory

HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838079-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838081-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) 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
<b>NOTE:</b> Memory DIMM availability with a server platform is dependent upon completion of certification testing.	
<b>NOTE:</b> 128GB support is available 2H2018.	
<b>NOTE:</b> The maximum memory speed is a function of the memory type, memory configuration, and processor model.	

## Core Options

### HPE Optical Drives

HPE 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
<b>NOTE: The Universal Media Bay (882097-B21) is required for this option on a SFF model. No support in 12 LFF or 24 SFF models.</b>	
HPE 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
<b>NOTE: The Universal Media Bay (882097-B21) is required for this option on a SFF model. No support in 12 LFF or 24 SFF models.</b>	
HPE Mobile USB Non Leaded System DVD RW Drive	701498-B21
<b>NOTE: This is only supported on USB 3.0 ports.</b>	

### 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 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-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 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765464-B21
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21

#### Midline - 12G SAS - LFF Drives

HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846524-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872485-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872487-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	846514-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861754-B21
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	861590-B21
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819201-B21
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857644-B21

#### Midline - 6G SATA - SFF Drives

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

#### Midline - 6G SATA - LFF Drives

HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD	861691-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872489-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872491-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD	861750-B21
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	819203-B21
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	861594-B21
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	857648-B21
HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD	881785-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>.

## Core Options

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

HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875311-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872390-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875313-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872392-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875326-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872394-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875330-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870144-B21
HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870148-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	872374-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873359-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872376-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873363-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872382-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873365-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872386-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873367-B21

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

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

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

HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	872378-B21
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### Mixed Use - 6G SATA - SFF - Solid State Drives

HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875483-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875470-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875474-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875478-B21

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

HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875472-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875476-B21
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875480-B21

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

HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877740-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875509-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877746-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875511-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877752-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875513-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877758-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877764-B21

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

HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	880295-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877776-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877782-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877788-B21

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

HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	877784-B21
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## Core Options

HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 877790-B21

### Read Intensive – 6G SATA uFF - Solid State Drives

HPE Dual 150GB SATA Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD 880875-B21

HPE Dual 480GB SATA Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD 880877-B21

### Hard Drive Blank Kits

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

**NOTE:** This is a M.2 enablement standup card.

HPE Large Form Factor Hard Drive Blank Kit 666986-B21

HPE Small Form Factor Hard Drive Blank Kit 666987-B21

### Hard Drive Kits

HPE DL38X Gen10 3LFF Rear SAS/SATA Drive Kit 826685-B21

**NOTE:** This is supported in the LFF model only.

**NOTE:** 3 LFF rear drives will consume the 2nd riser expansion slot.

HPE DL385 Gen10 4 Large Form Factor Mid-Plane Hard Drive Carrier 882096-B21

**NOTE:** Supported with both the 8 and 12 LFF model.

**NOTE:** With this mid-tray only single-wide (8.5-inch cards with connections or less) cards are supported.

**NOTE:** This drive does support hot-swap drives.

**NOTE:** This requires High Performance Fans (867810-B21).

HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit 826687-B21

**NOTE:** Supports 2SFF SAS/SATA/NVMe in Universal Media bay (882097-B21).

**NOTE:** NVMe drives require the addition of the High Performance Fan kit (867810-B21).

**NOTE:** NVMe drives require the addition of an NVMe capable riser.

**NOTE:** Drive cage can be used in the rear of the chassis, but will not support NVMe drives rear.

HPE DL38X Gen10 2SFF HDD SAS/SATA Riser Kit 826688-B21

**NOTE:** Supports 2 SFF rear in Riser1 or 2 location – max 2 supported SFF model.

**NOTE:** Supports 2 SFF rear in Riser1 or 2 location in LFF model. Note is 3 LFF rear option is selected maximum of one in riser 1 location.

**NOTE:** Supports uFF drives.

HPE DL38X NVMe 8 Solid State Drive Express Bay Enablement Kit 826689-B21

**NOTE:** This option provides support for up to 8NVMe drives, and can be populated in all Boxes in the 8 SFF model.

**NOTE:** A maximum of 24 NVMe drives only are supported.

**NOTE:** This will require the HPE DL38X Gen10 4-port 8 NVMe SlimSAS Riser (867807-B21).

**NOTE:** NVMe drives require the addition of the High Performance Fan kit (867810-B21).

HPE DL38X Gen10 Premium 6 SFF SAS/SATA + 2 NVMe or 8 SFF SAS/SATA Bay Kit 826690-B21

**NOTE:** This option provides supports up to 8 SAS/SATA SFF drives or a combination of 6 SAT/SATA and 2 NVMe drives in the same cage, and can be populated in all Boxes in the SFF model.

**NOTE:** For support of the 2 NVMe drives this will require the addition of the HPE DL38X Gen10 x8/x8/x8 1-port 2 NVMe SlimSAS Riser (867806-B21); or the HPE DL38X Gen10 2-port 4 NVMe SlimSAS Riser (867808-B21), or a second CPU and NVMe cable 871827-B21 is required and supports 2 drives each.

**NOTE:** NVMe drives require the addition of the High Performance Fan kit (867810-B21).

HPE DL38X Gen10 SFF Box1/2 Cage/Backplane Kit 826691-B21

**NOTE:** Supports 8 SAS/SAFA SFF drives in Box 1 or 2 to a max of 24 SFF SAS/SATA front.

HPE DL38X Gen10 8LFF Front 2SFF SAS/SATA HDD Kit 867805-B21

**NOTE:** For 2 SFF SAS/SATA in UMB on 8 LFF model only.

HPE DL38X Gen10 8LFF Front 2NVMe HDD Bay Kit 873781-B21

**NOTE:** Supports 2 NVMe in the Universal Media bay (included) on the 8 LFF model.

**NOTE:** For support of the 2 NVMe drives this will require the addition of the HPE DL38X Gen10 x8/x8/x8 1-port 2 NVMe SlimSAS Riser (867806-B21); or the HPE DL38X Gen10 2-port 4 NVMe SlimSAS Riser (867808-B21), or a second CPU and NVMe cable 871827-B21 is required and supports 2 drives each.

**NOTE:** NVMe drives require the addition of the High Performance Fan kit (867810-B21).

## Core Options

### Media Bay Kits

HPE DL385 Gen10 Universal Media Bay 882097-B21

**NOTE:** The HPE DL385 Gen10 Universal Media bay provides front Display Port and 2xUSB 2.0; plus support for 2x SFF front drives or 2 NVME front drives (826687-B21, riser required) and ODD support (Not included); and can only be located in Box1 in either an 8 SFF or 8+8 SFF model.

**NOTE:** This is a SFF model option only.

### HPE Networking

#### 1 Gigabit Ethernet adapters

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

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

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

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

#### 10 Gigabit Ethernet adapters

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

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

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

**NOTE:** The DL385 Gen10 ships with 4x 1 Gb Embedded.

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

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

#### FlexibleLOM adapters

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

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

HPE Ethernet 10Gb 2-port 535FLR-T Adapter 817721-B21

HPE FlexFabric 10Gb 4-port 536FLR-T Adapter 764302-B21

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

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

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

**NOTE:** The DL385 Gen10 chassis ships with 4x 1 Gb embedded.

**NOTE:** 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.

**NOTE:** 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 InfiniBand

HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter 825110-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter 825111-B21

HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter 872725-B21

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

### HPE I/O Expansion Options

**NOTE:** The Primary Riser shipping default in the chassis is a x8 FH, FL, x16 FH, FL and x8 FH, HL.

**NOTE:** For a Secondary/Tertiary riser the second processor is required.

HPE DL38X Gen10 x16/x16 Riser Kit 826694-B21

## Core Options

**NOTE:** Slot 1 or 2 in Primary or Secondary location.

**NOTE:** Supports Full Height and Full length cards.

**NOTE:** Bus width x16, x16, Connector Width x16, x16.

HPE DL Gen10 x8/x16/x8 Riser Kit

870548-B21

**NOTE:** No M.2 support on this riser.

**NOTE:** Supports Full Height, Half- length cards; Full Height, Full-length cards and Full Height, Half- length cards.

**NOTE:** Bus width x8, x16, x8, Connector Width x8, x16, x8.

HPE DL38X Gen10 4-port 8 NVMe Primary Slim SAS FIO Riser

867807-B21

**NOTE:** Riser supporting up to 8 NVMe drives in Primary location.

**NOTE:** This is a factory integrated only option.

**NOTE:** This can be connected to an 8SFF NVMe drive cage in box 3.

**NOTE:** To achieve max 204 NVMe support, connect 4 NVMe drives to the tertiary riser.

HPE DL Gen10 x16/x16 GPU Riser Kit

826704-B21

**NOTE:** Primary or Secondary Riser, Connector in slot 2 & 3 for GPU support.

**NOTE:** Supports Full Height and Full length cards.

**NOTE:** Bus width x16, x16, Connector Width x16, x16.

**NOTE:** GPU support available 1H2018.

HPE DL38X Gen10 2SFF HDD SAS/SATA Riser Kit

826688-B21

**NOTE:** Premium bay supporting SFF SAS/SATA .

**NOTE:** Available in Primary or Secondary Riser location.

**NOTE:** Will leave 1 x16 Connector available in bottom slot.

HPE DL38X Gen10 x8/x8/x8 1-port 2 NVMe SlimSAS Riser

867806-B21

**NOTE:** Supports NVMe drives in Primary or Secondary location.

**NOTE:** Supports Full Height and half-length cards.

**NOTE:** Bus width x8, x8, x8 Connector Width x8, x8, x8.

HPE DL38X Gen10 2-port 4 NVMe SlimSAS Riser

867808-B21

**NOTE:** Supports up to 4 NVMe drives in Tertiary location.

HPE DL38X Gen10 4-port 8 NVMe Secondary Slim SAS Riser

873732-B21

**NOTE:** Riser supporting up to 8 NVMe drives in Secondary location.

HPE DL38X Gen10 2 x8 PCIe Tertiary Riser Kit

875780-B21

**NOTE:** Supports 2x 8 slots in the Tertiary location.

HPE DL38X Gen10 x16 Tertiary Riser Kit

826700-B21

**NOTE:** Supports 1x 16 slot in the Tertiary location.

**NOTE:** Supports Full Height and full-length card.

**NOTE:** Bus width x16 Connector Width x16.

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## HPE Power Supplies

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

865408-B21

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

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

865438-B21

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

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

865428-B21

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

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

865414-B21

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

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

865434-B21

## Core Options

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

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

830272-B21

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

**NOTE:** 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>.

**NOTE:** All power supplies in a server should match. Mixing Power Supplies is not supported.

**NOTE:** Option kits contain the specified power supply and a PDU IEC cable.

**NOTE:** 1600W power supplies only support high line voltage.

**NOTE:** 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.

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## HPE Cooling Options

HPE DL38X Gen10 High Performance Temperature Fan Kit

867810-B21

**NOTE:** This kit is required for specific **Ambient temperature environments**, coming in 2H2017.

**NOTE:** High Performance fan kit consists of 6 fans, these will need to replace all the standard fans in the unit, and fill all 6 fan cages.

**NOTE:** The 12 LFF and 24 SFF models (including field upgrades to 24 SFF) will already include 6 High Performance fan kits.

**NOTE:** The High Performance fan kit is needed to support certain Passive GPGPU (Graphics cards) configurations; or ASHRAE operating environments.

**NOTE:** For elevated ambient temperature support please see: <http://www.hpe.com/servers/ashrae>.

## Additional Options

**NOTE:** Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an 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 Advanced Security

HPE iLO Advanced Premium Security Upgrade Electronic License with 3yr Support on Licensed Features	Q7E12AAE
HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features	Q7E31A
HPE iLO Advanced Premium Security Flex Qty License with 1yr Support on Licensed Features	Q7E32A
HPE iLO Advanced Premium Security Edition Electronic License with 1yr Support on Licensed Features	Q7E32AAE
HPE iLO Advanced Premium Security AKA Tracking License with 1yr Support on Licensed Features	Q7E35A
HPE iLO Advanced Premium Security Upgrade Electronic License with 3yr Support on Licensed Features	Q7E12AAE
HPE iLO Advanced Premium Security Edition License with 3yr Support on Licensed Features	Q7E33A
HPE iLO Advanced Premium Security Flex Qty License with 3yr Support on Licensed Features	Q7E34A
HPE iLO Advanced Premium Security Edition Electronic License with 3yr Support on Licensed Features	Q7E34AAE
HPE iLO Advanced Premium Security AKA Tracking License with 3yr Support on Licensed Features	Q7E36A

### HPE Converged Infrastructure Management Software

HPE OneView Physical Media Kit LTU	E5Y37A
HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU	K6F98AAE
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Track 1-server LTU	E5Y36A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView Upgrade from Insight Management 3yr 24x7 Support 1-server LTU	F6Q91A
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 Advance including 3yr 24x7 Support Track 1-server LTU	E5Y40A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support Bundle Track 1-server LTU	E5Y44A
HPE OneView Upgrade from Insight Management including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y45AAE
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE

**NOTE:** Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be **downloaded**.

### HPE PCIe Workload Accelerator Options

HPE 4TB PCIe x4 Lanes Read Intensive HHHL 3yr Wty Digitally Signed Firmware Card	877831-B21
--	------------

## Additional Options

### HPE Security

HPE Gen10 2U Bezel Kit	867809-B21
HPE Bezel Lock Kit	875519-B21
HPE Gen10 Chassis Intrusion Detection Kit	867824-B21

**NOTE:** 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.

HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21
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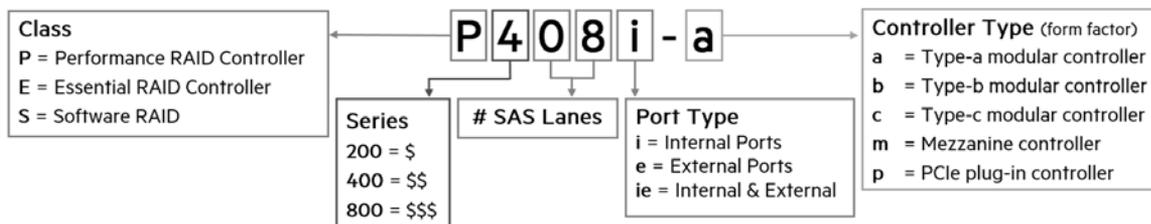
**NOTE:** HPE Trusted Platform Module 2.0 option works with Gen10 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.

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

**NOTE:** There is a FIO setting to allow this TPM module to operate in a TPM 1.2 mode (872108-B21).

### 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](#).



### Performance RAID Controllers

**NOTE:** 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 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller	804338-B21
--	------------

**NOTE:** Does not occupy a PCIe expansion slot and includes SmartCache license.

**NOTE:** The P816i-a cable ships in the 12LFF chassis only.

HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	804331-B21
--	------------

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

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

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

### Essential RAID Controllers

HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller	804326-B21
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**NOTE:** Does not occupy a PCIe expansion slot.

HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804394-B21
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HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
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### HPE Cable Options

HP DL380 Gen9 12LFF Smart HBA H240 SAS Cable Kit	786215-B21
HPE DL385 Gen10 Mini SAS 3POS Cable Kit	882100-B21

## Additional Options

**NOTE:** For details on cabling options, additional information available here:

<http://www.hpe.com/info/CablingMatrixGen10>.

### 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

**NOTE:** 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.

### Optional Upgrades

HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit	P01366-B21
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**NOTE:** Provides backup power for multiple HPE Smart Array controllers or other devices. Is required with performance RAID controllers.

### HPE Tape Backup

**NOTE:** 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/BURCompatibility>

### HPE Disk-Based Backup

HP RDX+ 1TB External Backup System	B7B69B
HPE RDX+ External Docking System	C8S07B
HPE RDX 2TB USB3.0 External Disk Backup System	E7X53B

### 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

**NOTE:** For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows Server 2003 and Linux, please see: <https://www.hpe.com/us/en/product-catalog/storage/storage-adapters.hits-12.html>

## Additional Options

### HPE Racks

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

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

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

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### HPE Power Distribution Units (PDUs)

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

**NOTE:** Please see the [HPE Metered Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.

**NOTE:** Please see the [HPE Intelligent Power Distribution Unit \(PDU\) QuickSpecs](#) for information on these products and their specifications.

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

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### HPE Uninterruptible Power Systems (UPS)

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

**NOTE:** Please see the [HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs](#) for information on these products and their specifications.

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

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### HPE Rack Options

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

### Rail Kits

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

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

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

HP 2U Small Form Factor Easy Install Rail Kit	733660-B21
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**NOTE:** Does not include CMA (733664-B21).

HP 2U Large Form Factor Easy Install Rail Kit	733662-B21
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**NOTE:** Does not include CMA (733664-B21).

HP 2U Cable Management Arm for Easy Install Rail Kit	733664-B21
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HPE 2U Small Form Factor Ball Bearing Rail Kit	720863-B21
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**NOTE:** Does not include CMA (720865-B21).

HPE 2U Large Form Factor Ball Bearing Rail Kit	720864-B21
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**NOTE:** Does not include CMA (720865-B21).

HPE 2U Cable Management Arm for Ball Bearing Rail Kit	720865-B21
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## Additional Options

### HPE Other Options

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

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### HPE USB and SD Options

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

HPE 32GB microSD Mainstream Flash Media Kit	700139-B21
HPE 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21

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### HPE Support Services

#### Installation & Startup Services

HPE Install ProLiant DL38x(p) Service	U4554E
HPE Installation and Startup DL38x(p) Service	U4555E

#### Proactive Care

HPE 3 Year Proactive Care 24x7 DL38x Gen10 Service	H8QQ0E
HPE 3 Year Proactive Care 24x7 with DMR DL38x Gen10 Service	H8QQ1E
HPE 3 Year Proactive Care 24x7 with CDMR DL38x Gen10 Service	H8QQ2E
HPE 3 Year Proactive Care Call-To-Repair DL38x Gen10 Service	H8QQ9E
HPE 3 Year Proactive Care Call-To-Repair 24x7 with DMR DL38x Gen10 Service	H8QR0E
HPE 3 Year Proactive Care Call-To-Repair with CDMR DL38x Gen10 Service	H8QR1E

Memory



DIMM Type	Register DIMM (RDIMM)			
HPE SKU P/N	838079-B21	838081-B21	838089-B21	838083-B21
SKU Description	HPE 8GB 1Rx8 PC4-2666V-R Kit	HPE 16GB 1Rx4 PC4-2666V-R Kit	HPE 16GB 2Rx8 PC4-2666V-R Kit	HPE 32GB 2Rx4 PC4-2666V-R Kit
DIMM Rank ->	Single Rank (1R)	Single Rank (1R)	Dual Rank (2R)	Dual Rank (2R)
DIMM Capacity ->	8GB	16GB	16GB	32GB
Voltage	1.2V	1.2V	1.2V	1.2V
DRAM depth [bit]	1G	2G	1G	2G
DRAM Width [bit]	x8	x4	x8	x4
DRAM Density	8Gb	8Gb	8Gb	8Gb
CAS Latency	19-19-19	19-19-19	19-19-19	19-19-19
DIMM Native Speed (MT/s)	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s
<b>AMD EPYC® 7000 Processors Officially Supported Memory Speed (MT/s)</b>				
1 DIMM Per Channel	2666 MT/s	2666 MT/s	2400 MT/s	2400 MT/s
2 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s

**NOTE:** The maximum memory speed is a function of the memory type, memory configuration, and processor model.

**NOTE:** 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>

## Memory

DIMM Type	Load Reduced (LRDIMM)	
HPE SKU P/N	838085-B21	838087-B21
SKU Description	HPE 64GB 4Rx4 PC4-2666V-L Kit	HPE 128GB 8Rx4 PC4-2666V-L Kit
DIMM Rank ->	Quad Rank (4R)	Octal Rank (8R)
DIMM Capacity ->	64GB	128GB
Voltage	1.2V	1.2V
DRAM depth [bit]	2G	2G
DRAM Width [bit]	x4	x4
DRAM Density	8Gb	8Gb
CAS Latency	19-19-19	22-19-19
DIMM Native Speed (MT/s)	2666	2666
AMD EPYC® 7000 Processors Officially Supported Memory Speed (MT/s)		
1 DIMM Per Channel	2666 MT/s	2666 MT/s
2 DIMM Per Channel	2133 MT/s	2133 MT/s

**NOTE:** The maximum memory speed is a function of the memory type, memory configuration, and processor model.

**NOTE:** Model 7251 1 DIMM per channel is 2400 MT/s.

**NOTE:** 128GB support is available 2H2018.

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

### DDR4 memory options part number decoder

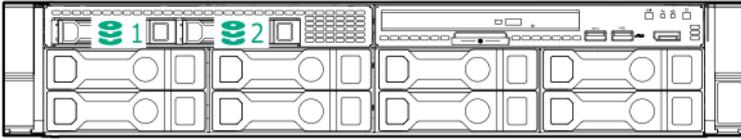
**NOTE:** Capacity references are rounded to the common gigabyte (GB) values.

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

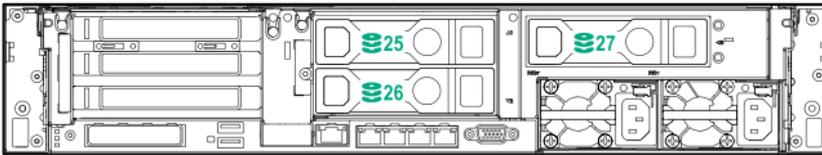
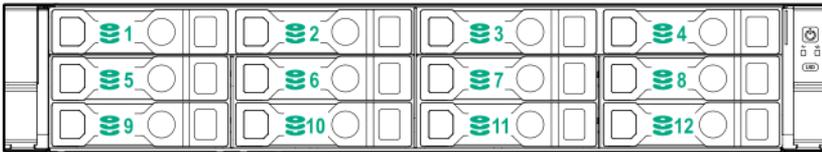
For more information on memory, please see the Memory QuickSpecs: [HPE DDR4 SmartMemory](#)

## Storage

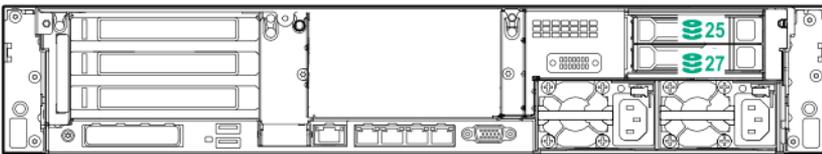
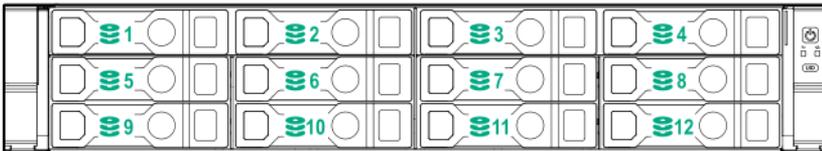
8LFF chassis with Universal media bay and optional 2SFF and optical drive shown



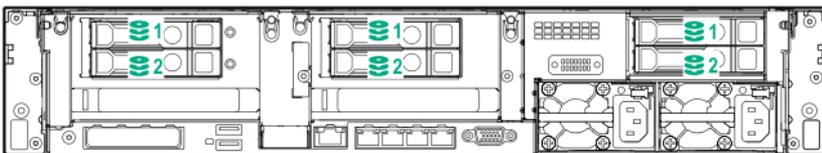
12 LFF + 3 rear LFF drives



12 LFF + 2 rear SFF drives



6 rear SFF drives



## Storage

24 SFF + rear 2 SFF drives



## Technical Specifications

### System Unit

<b>Dimensions</b>	8.73 x 44.55 x 67.94 cm	SFF Drives:
	3.44 x 17.54 x 26.75 in	
	8.73 x 44.55 x 73.02 cm	LFF Drives:
	3.44 x 17.54 x 28.75 in	
<b>Weight (Approximate)</b>	14.9 kg	Minimum: 8 SFF chassis with 1x SFF HDD and 7 HDD blanks, 2x Drive Bay blanks, 1x processor including standard heatsink, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above)
	32.75 lb	
	23.6 kg	Maximum: 12 LFF hard drives (no rear drives), 2x processors, 2x power supplies, 1x Smart Array, 2x Risers installed)
	51.5 lb	
<b>Input Requirements</b> (per power supply)	Rated Line Voltage	100 to 120 VAC
		200 to 240 VAC
<b>BTU Rating</b>	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only
		For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only
<b>Power Supply Output</b> (per power supply)	Rated Steady-State Power	For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC)
		For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only
	Maximum Peak Power	For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only
		For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only
		For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only
		For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only
<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.
	Extended Ambient Operating Temperature	System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F). 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>

## Technical Specifications

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

## 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.

### Idle

LWAd	4.8 B Entry
	4.4 B Base
	4.6 B Perf
LpAm	37 dBA Entry
	31 dBA Base
	31 dBA Perf

### Operating

LWAd	4.8 B Entry
	4.4 B Base
	4.6 B Perf
LpAm	37 dBA Entry
	31 dBA Base
	31 dBA Perf

**NOTE:** 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.

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

**NOTE:** 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>

## Technical Specifications

For information on the HPE Smart Array E208i-a SR Gen10 Controller please refer to their [QuickSpecs](#).

For information on the HPE Smart Array E208i-p SR Gen10 Controller please refer to their [QuickSpecs](#).

For information on the HPE Smart Array E208e-p SR Gen10 Controller please refer to their [QuickSpecs](#).

For information on the HPE Smart Array P408i-a SR Gen10 Controller please refer to their [QuickSpecs](#).

For information on the HPE Smart Array P408i-p SR Gen10 Controller please refer to their [QuickSpecs](#).

For information on the HPE Smart Array P408e-p SR Gen10 Controller please refer to their [QuickSpecs](#).

For information on the HPE Smart Array P816i-a SR Gen10 Controller please refer to their [QuickSpecs](#).

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### 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.

## Summary of Changes

Date	Version History	Action	Description of Change
12-Feb-2018	From Version 1 to 2	Added	New model was added to the Pre-configured Models section.
		Changed	Overview, Expansion Slots, Maximum Internal Storage, Pre-configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
04-Dec-2017	Version 1	New	New QuickSpecs.



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

a00026913ENW – 16108 - Worldwide - V2 - 12-February-2018

