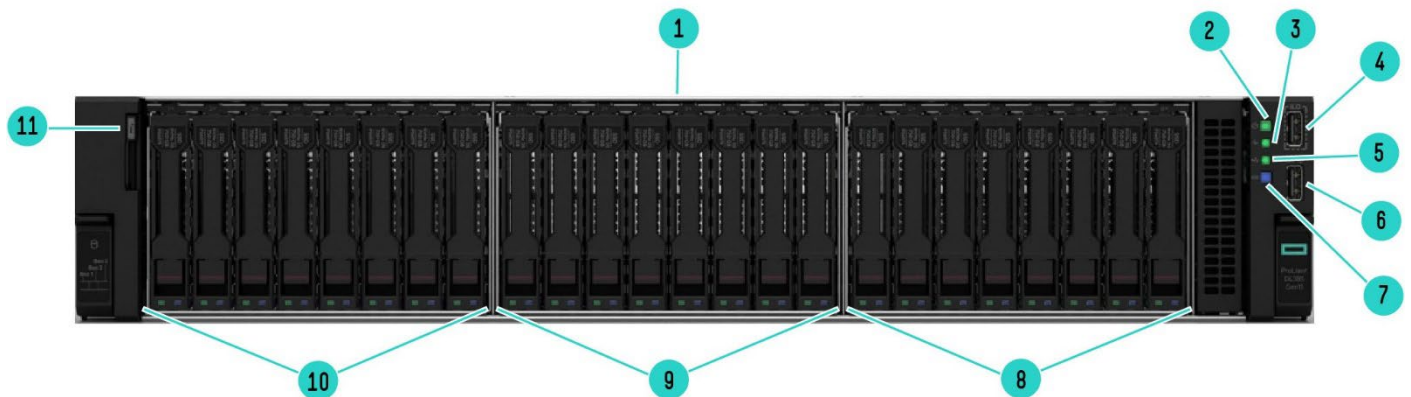


### Overview

#### HPE ProLiant DL385 Gen11

The new HPE ProLiant DL385 Gen11 server is an accelerator-optimized 2U 2P solution that delivers exceptional compute performance, upgraded high-speed data transfer rate and memory depth at 2P compute capability. Powered by 4th Generation AMD EPYC™ 9004 Series Processors with up to 96 cores, increased memory bandwidth (up to 6TB), high-speed PCIe Gen5 I/O, Gen5 EDSFF storage and the newly designed chassis supporting 8 single wide (SW) or 4 double wide (DW) GPUs\*. The HPE ProLiant DL385 Gen11 server is a perfect accelerator-optimized 2U 2P solution.

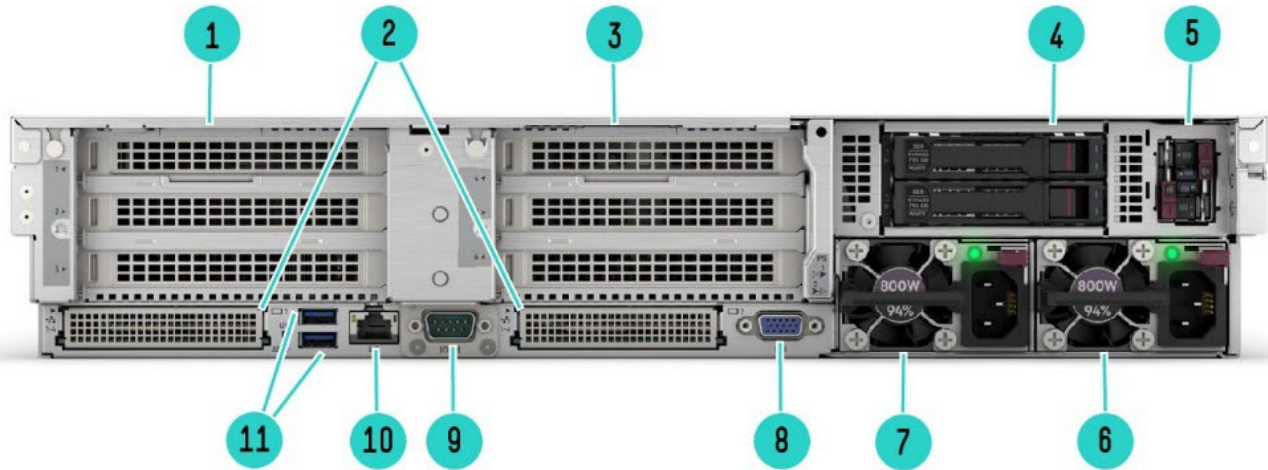
**Notes:** \* EDSFF and the new GPU offering will be available in Q1 2023. Subject to change.



**HPE ProLiant DL385 Gen11 SFF Server- Front View**

- |  |  |
|--|--|
| 1. Quick removal access panel                          | 7. UID button  |
| 2. Power On/Standby button and system power LED button | 8. Drive Bay 3. 8 SFF U.3 optional                         |
| 3. Health LED  | 9. Drive Bay 2. 8 SFF U.3 optional                         |
| 4. iLO front service port                              | 10. Drive Bay 1. 8 SFF U.3 or Universal Media Bay optional |
| 5. NIC status LED                                      | 11. Serial label pull tag                                  |
| 6. USB 3.2 Gen1  |  |

## Overview

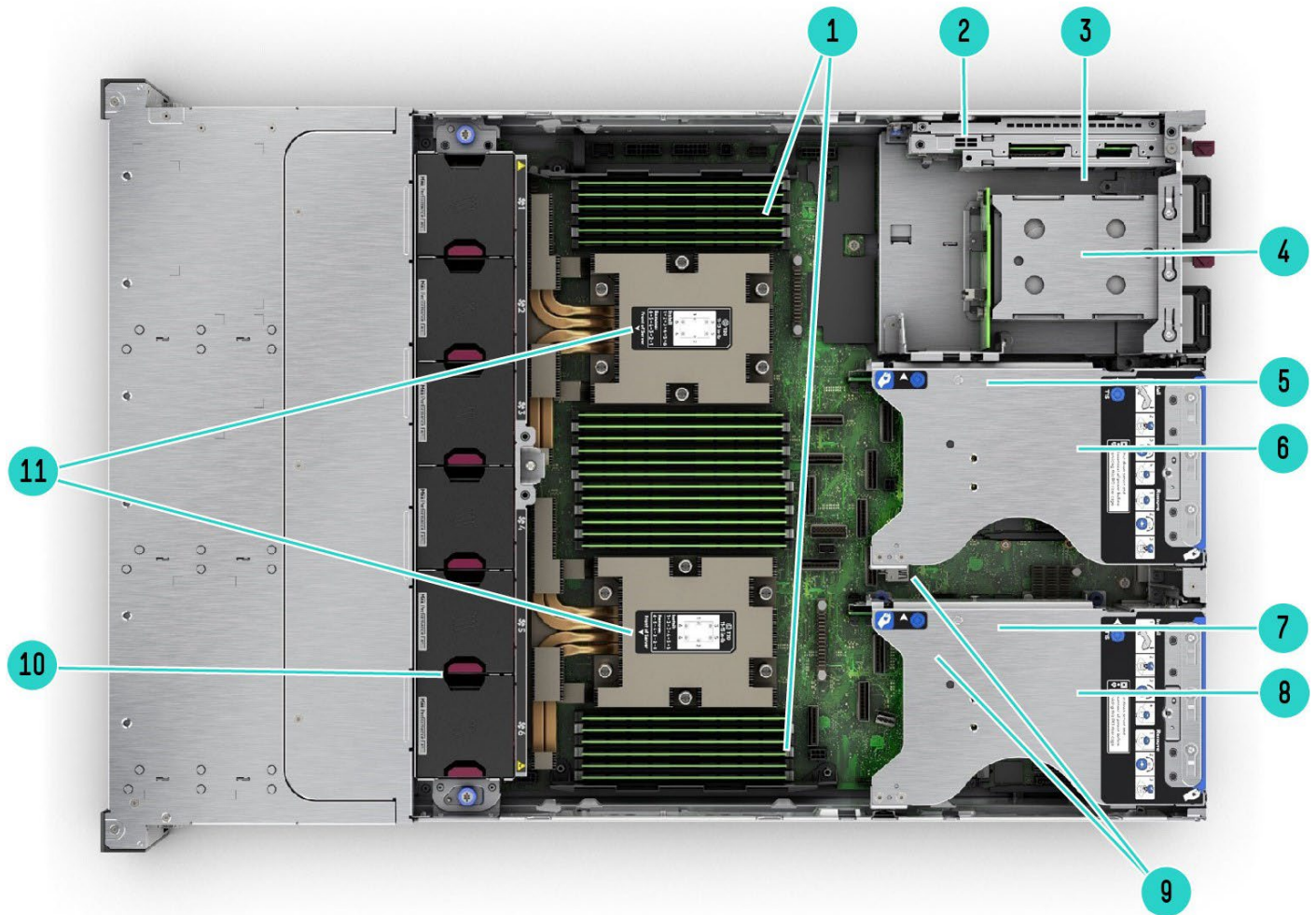


#### HPE ProLiant DL385 Gen11 - Rear View

- |  |   |
|--|---|
| 1. Primary Riser: PCI Slots (Slots 1–3 top to bottom)                                | 7. HPE Flexible Slot Power Supply bay 2 |
| 2. OCP 3.0 Slot  | 8. VGA connector                        |
| 3. Secondary Riser: PCI Slots (Slots 4–6 top to bottom)                              | 9. Serial port (optional)               |
| 4. Tertiary Riser: (Slots 7–8 top to bottom, not shown).<br>Optional rear 2 SFF cage | 10. Dedicated iLO management port       |
| 5. Hot pluggable M.2 Boot Device (optional, not shown)                               | 11. USB 3.2 Gen1 ports                  |
| 6. HPE Flexible Slot power supply bay 1  |   |



## Overview

**HPE ProLiant DL385 Gen11 - Internal View**

- |  |   |
|--|---|
| 1. DDR5 DIMM slots. Shown populated in 24 slots                        | 7. Primary PCIe riser cage                              |
| 2. Hot Pluggable M.2 Boot Device bracket                               | 8. (Under) OCP 3.0 Slot 1                               |
| 3. (Under) Up to 2 Hot Plug redundant HPE Flexible Slot Power supplies | 9. 2x USB 3.2 Gen1 ports (one under primary riser cage) |
| 4. Rear 2SFF drive cage  | 10. Fan cage shown with 6 Performance Hot-plug fans     |
| 5. Secondary PCIe riser cage   | 11. 2 Processors (heatsinks shown)                      |
| 6. (Under) OCP 3.0 Slot 2  |   |



## Overview

### What's New:

- Supports the 4<sup>th</sup> Generation AMD EPYC™ Series Processors that supports up to 96 cores, 400W, and 384MB of L3 Cache.
- 12 DIMM channels per processor for up to 6TB total DDR5 memory<sup>1</sup>
- Advanced data transfer rate and higher network speed from the PCIe Gen5 serial expansion bus
- New HPE Integrated Lights-Out 6 (iLO 6) server management software
- Supports hot-pluggable, high-availability RAID M.2 boot options.

**Notes:**<sup>1</sup> 6TB maximum memory support will be available by Q1 2023. Subject to change.

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## Platform Information

### Form Factor

- 2U rack

### Chassis Types

- 8 SFF with optional Universal Media Bay, and optional SFF or NVMe drive bay options. Front drive bay supported up to 24 SFF
- 8 LFF with Universal Media Bay, and optional SFF or NVMe drive bay options. Front drive bay supported up to 12 LFF

#### Notes:

- DL385 Gen11 uses Basic Carrier drive cages.
- The 4 LFF rear drive box will consume space for the primary, secondary and tertiary risers.
- 3x 8 SFF drive cages can be used to build up a 24 SFF configuration.
- The 12 LFF configuration needs to be built up with 8LFF chassis and one 4LFF drive cage.
- The Universal Media Bay (P57857-B21) not available with the LFF chassis or the 24 SFF (3x 8SFF cages) configuration, and can only be populated in Box 1.
- U.3 x1 and U.3 x4 drive cages CAN mix.

### System Fans

Standard – fan types included

- Choice of Standard Fan Kit or Performance Fan Kit

#### Notes:

- The DL385 Gen11 supports up to 6 fans with fan redundancy built in. One fan rotor failure will place server in degraded mode but fully functional. Two fan rotor failures could provide warning and imminent server shutdown.
  - Each Fan kits are designated to operate under different configuration. For more information, please refer to the **Cooling option message in the Unique option section.**
- 

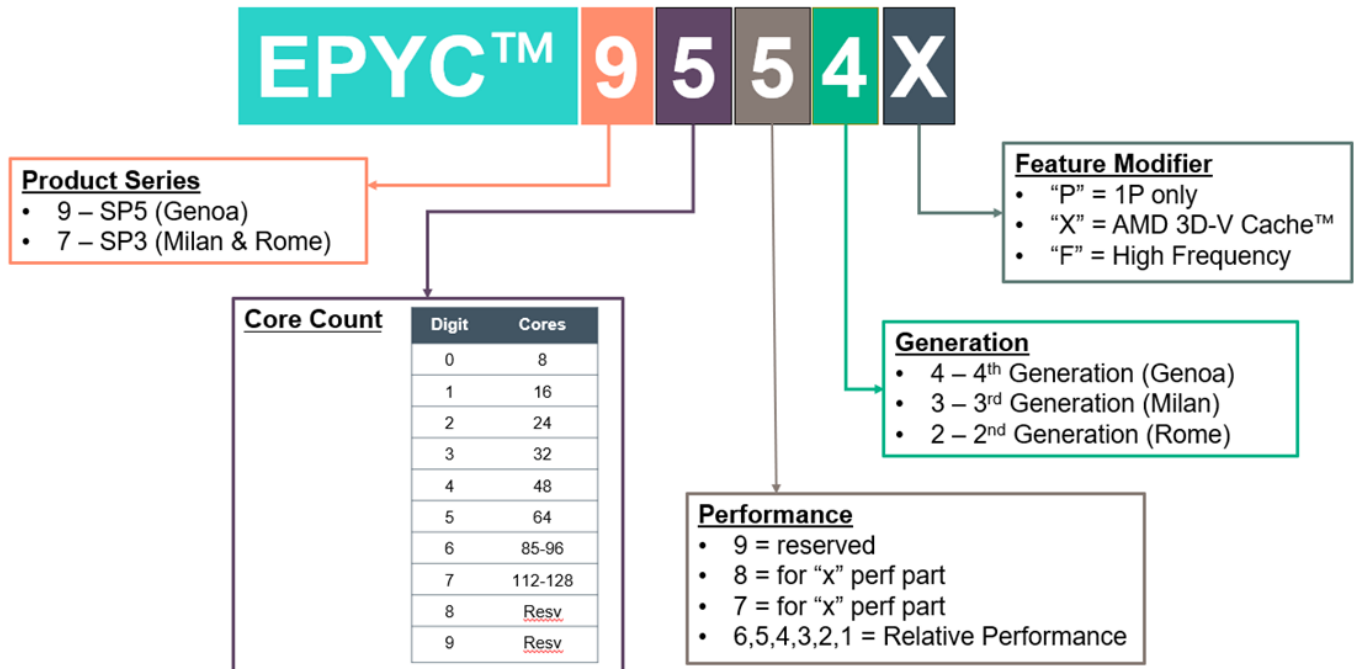


## Standard Features

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

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

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



AMD EPYC Processor	Cores	Base Frequency	Max Frequency	Max Memory	Wattage	Cache	Memory
EPYC 9124	16	3.0 GHz	3.7 GHz	3TB	200W	64MB	4800MT/s
EPYC 9174F	16	4.1 GHz	4.4 GHz	3TB	320W	256MB	4800MT/s
EPYC 9224	24	2.5 GHz	3.7 GHz	3TB	200W	64MB	4800MT/s
EPYC 9354	32	3.25 GHz	3.8 GHz	3TB	280W	256MB	4800MT/s
EPYC 9374F	32	3.85 GHz	4.3 GHz	3TB	320W	256MB	4800MT/s
EPYC 9554	64	3.1 GHz	3.75 GHz	3TB	360W	256MB	4800MT/s
EPYC 9654	96	2.4 GHz	3.7 GHz	3TB	360W	384MB	4800MT/s

**Notes:**

- All AMD EPYC processors can support up to 3TB of memory each under 1DPC, 12 channel per processor. 6TB of memory per two processors.
- 160 PCIe 5.0 lanes support with two sockets. Motherboard supports 3XGMI two-processor interconnect by default.
- The wattage information indicates the default cTDP (Configurable TDP) of the processor.

### Chipset

No chipset – System on Chip (SoC) design.

### On System Management Chipset

HPE iLO 6 ASIC

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



## Standard Features

### Memory

One of the following depending on model

<b>Type</b>	HPE DDR5 SmartMemory, Registered (RDIMM)
<b>DIMM Slots Available</b>	24 12 DIMM slots per processor, 12 channels per processor, 1 DIMM per channel
<b>Maximum capacity (RDIMM)</b>	6.0TB 24 x 256 GB RDIMM* @ 4800 MT/s at 1 DPC

#### Notes:

- \*6.0 TB maximum and 256 GB RDIMM support will be available by Q1 2023. Subject to change.
- All processors support up to 6TB memory per server when 2 processors are supported.
- LRDIMM and Persistent Memory are not supported.
- For additional information, please see the [HPE DDR5 SmartMemory QuickSpecs](#).
- For General Server Memory Population Rules and Guidelines for Gen11 see details here: <http://www.hpe.com/docs/memory-population-rules>

### Memory Protection

#### Advanced ECC

Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip.

## Expansion Slots

### Primary Riser

#### Notes:

- Bus width indicates the number of physical electrical lanes running to the connector.
- There are three Primary riser configurations:
  - o Default 1 slot only (1x16 on Slot3)
  - o Default Slot3 + Slot1 & 2 with HPE DL385 G11 2x16 Prim FIO Upg Rsr Kit (P57890-B21)
  - o HPE DL385 G11 x16 Prim FIO Rsr LFF Rear (P55098-B21) selectable when rear 4LFF SAS/SATA cage kit (P55088-B21) is configured
- When both Primary Slot1 & OCP Slot21 (OCP1) are supported, Slot1 & Slot21 (OCP1) combined can only support up to 112GB/s bandwidth due to processor limitation

Primary Riser config#1					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	N/A	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A
3	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 1

Primary Riser config#2					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 1. Supported with P57890-B21
2	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 1. Supported with P57890-B21
3	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 1



## Standard Features

### Primary Riser config#3

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1 (below the 4LFF drive cage)	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 1. Scenario when rear 4LFF SAS/SATA cage is selected

### Secondary Riser:

#### Notes:

- Bus width indicates the number of physical electrical lanes running to the connector.
- There are four Secondary riser configurations:
  - o 1 slot using HPE DL385 Gen11 x16 Sec Riser Kit (P55097-B21)
  - o 3 slots using Slot 6 P55097-B21 + Slot4 & 5 with HPE DL385 Gen11 2x16 Sec Upg Riser Kit (P57891-B21)
  - o HPE DL385 Gen11 x16 Sec FIO Rsr LFF Rear (P57892-B21) selectable when rear 4LFF SAS/SATA cage kit (P55088-B21) is configured
  - o HPE DL385 Gen11 x16 LP Sec Riser Kit (P59260-B21) selectable when HPE NS204i-u Gen11 Ht Plg Boot Opt Dev (P48183-B21) is selected and rear 4LFF SAS/SATA cage kit (P55088-B21) is configured
- When both Secondary Slot6 & Tertiary Slot7 are supported, Slot6 & Slot7 combined can only support up to 112GB/s bandwidth due to processor limitation

### Secondary Riser config#1

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 2

### Secondary Riser config#2

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
4	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 2
5	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 2
6	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 2

### Secondary Riser config#3

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1 (below the 4LFF drive cage)	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 2. Scenario when rear 4LFF SAS/SATA cage is selected

### Secondary Riser config#4

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1, Low Profile Type (below the 4LFF drive cage)	PCIe 5.0	X16	X16	Low Profile, half-length slot	Proc 2. Scenario when NS204i-u boot device and rear 4LFF SAS/SATA cage are selected

## Standard Features

### Tertiary Riser

#### Notes:

- Bus Width Indicates the number of physical electrical lanes running to the connector.
- There is one type of Tertiary riser configuration by selecting HPE DL385 Gen11 2x16 Tert FIO Riser Kit (P57893-B21)
- When both Secondary Slot6 & Tertiary Slot7 are supported, Slot6 & Slot7 combined can only support up to 112GB/s bandwidth due to processor limitation

Tertiary Riser					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
7	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 2
8	PCIe 5.0	X16	X16	Full-height, half-length slot	Proc 2

### Storage Controllers

The Gen11 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen11 Smart Array controllers visit the controller data sheet

#### NVMe Boot Device

HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device

#### Notes:

- NS204i-u does not occupy a PCIe slot and is externally accessible.
- 2pcs of 480GB M.2 NVMe SSD are included in the NS204i-u Hot Plug Boot Device
- RAID 1 supported on the NS204i-u Hot Plug Boot Device.
- There are three locations where NS204i-u Hot Plug Boot Device can be supported:
  - o Tertiary location above power supplies
  - o Secondary Slot 4 location
  - o Secondary location when selected with the low profile secondary riser, below the 4LFF rear drive cage

#### Software RAID – NO Software RAID is support on AMD Gen11 servers

#### Smart Array Controller

- HPE Smart Array E208e-p SR Gen10 Controller
- HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller
- HPE MR216i-o Gen11 x16 Lanes without Cache OCP SPDM Storage Controller
- HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller
- HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller
- HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller
- HPE SR932i-p Gen11 x32 Lanes 8GB Wide Cache PCI SPDM Plug-in Storage

**Notes:** For additional details, please visit:

**[HPE Compute MR Gen11 Controllers Quick Spec](#)**

**[HPE Compute SR Gen11 Controllers Quick Spec](#)**

### Internal Storage Devices

One of the following depending on model

#### Optical Drive

- Available on SFF and LFF CTO Servers as an option (DVD-ROM or DVD-RW)

#### Hard Drives

- None ship standard





## Standard Features

### Graphics

#### Integrated Video Standard

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

#### HPE iLO 6 on system management memory

- 64 MB Flash
- 8 Gbit DDR4 with ECC protection

### Maximum Internal Storage

Drive	Capacity	Configuration
Hot Plug LFF SAS HDD	400 TB	(12+4+4) x20TB (with optional mid –tray and rear 4LFF drive cage)
Hot Plug LFF SATA HDD	400 TB	(12+4+4) x20TB (with optional mid –tray and rear 4LFF drive cage)
Hot Plug LFF SATA SSD	153.6 TB	(12+4+4) x7.68TB (with optional mid –tray and rear 4LFF drive cage)
Hot Plug SFF SAS HDD	81.6 TB	(24+8+2) x2.4TB (with optional mid –tray and rear 2SFF drive cage)
Hot Plug SFF SAS SSD	261.12 TB	(24+8+2) x7.68TB (with optional mid –tray and rear 2SFF drive cage)
Hot Plug SFF SATA HDD	68 TB	(24+8+2) x2TB (with optional mid –tray and rear 2SFF drive cage)
Hot Plug SFF SATA SSD	261.12 TB	(24+8+2) x7.68TB (with optional mid –tray and rear 2SFF drive cage)
Hot Plug SFF NVMe PCIe SSD	522.24 TB NVMe	(24+8+2) x15.36TB (with optional mid –tray and rear 2SFF drive cage)

### Power Supply

- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit  
**Notes:** Available in 94% Power Efficiency
- HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit  
**Notes:**
  - Available in 94% Power Efficiency.
  - 200-240VAC power input only.
- HPE 1600W ~48VDC Power Supply Kit  
**Notes:**
  - Available in 94% Power Efficiency.
  - 200-240VAC 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 Gen11 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](#).

## Standard Features

### Interfaces

<b>Serial</b>	Optional, rear
<b>Display Port</b>	1 optional on both Universal Media Bay and LFF optical drive module
<b>VGA Port</b>	1 VGA Port standard at rear
<b>Network Ports</b>	None. Choice of OCP or stand up card
<b>HPE iLO Remote Management Network Port</b>	1 Gb Dedicated
<b>Front iLO Service Port</b>	1 standard
<b>USB 3.2 Gen1</b>	5 standard on all models: 1 front, 2 rear, 2 internal 1 optional with Universal Media Bay
<b>USB 2.0</b>	1 optional with Universal Media Bay
<b>SID (Systems Insight Display)</b>	Optional

### UEFI

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

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

### Operating Systems and Virtualization Software Support for ProLiant Servers

- Windows Server 2019
- Windows Server 2022
- **Red Hat Enterprise Linux (RHEL) 8.6**
- **Red Hat Enterprise Linux (RHEL) 9.0**
- **SUSE Linux Enterprise Server (SLES) 15 SP4**

#### Notes:

- Pending VMware 7.0 U3 and VMware 8.0 certifications
- 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>

### HPE Server UEFI

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 Gen11 servers have a UEFI Class 2 implementation.

**Notes:** 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 enabled for enhanced security
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.2 Gen1 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



## Standard Features

### UEFI Boot Mode only

- TPM 2.0 Support
- NVMe Boot Support
- iSCSI Software Initiator Support.
- HTTP/HTTps Boot support as a PXE alternative.
- Boot support for option cards that only support a UEFI option ROM

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

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### Industry Standard Compliance

- ACPI 6.1 Compliant
- PCIe 4.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- Support for Microsoft Secure Code
- PXE Support
- VGA/Display Port

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

- USB 3.1 Gen1 Compliant (internal)
- USB 2.0 Compliant (external ports)

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

- USB NIC Driver in UEFI for Factory
- OCP 3.0 SFF NIC Support
- OCP 3.0 SFF Storage Support
- Embedded TPM Support
- Energy Star
- SMBIOS 3.1
- UEFI 2.9
- 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)
- DMTF Redfish support for SecureBoot Key Management
- ACPI DSM Drive LED Management
- Memory Page Retire Support
- Retire old VMware Secure Boot Key
- MCTP over PCIe multi-segment (EDKII for GenoaPI 0.0.9.0, HPE under verifying0)
- Synergy: I3C Engine
- APML 1.0
- One Button Secure Erase Enhancements
- Active Directory v1.0
- European Union (EU) eco-design regulations for server and storage products, known as Lot 9, go into effect on March 1st, 2020. Among other requirements, for servers this directive establishes power thresholds for idle state, as well as efficiency and performance in active state which vary among configurations. HPE ProLiant Gen10 servers are compliant with Lot9 requirements. For more information regarding HPE Lot 9 conformance, please visit:

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



## Standard Features

- ASHRAE A3/A4  
**Notes:** For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: <http://www.hpe.com/servers/ashrae>.
  - UEFI Class 3 (Unified Extensible Firmware Interface Forum)
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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 server(s) securely with industry standard Unified Extensible Firmware Interface (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>.

### 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

The Active System Health Viewer (AHSV) was deprecated as of March 2022. Users are now recommended to use the InfoSight (<https://www.hpe.com/us/en/solutions/infosight.html>) for Servers Portal for AHS viewing capabilities. In InfoSight for Servers portal, users will also be able to view hardware configuration details, firmware and driver information, warranty and support status of a server, wellness alerts, and create support cases for servers under a valid warranty or support contract.

HPE InfoSight provides the same security assurances as that of AHSV. Furthermore, InfoSight can be used as an AHSV replacement even if customers do not want to share AHSV logs and telemetry data on an ongoing basis.

### Smart Update

Keep your server(s) up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP). Learn more at <https://www.hpe.com/us/en/servers/smart-update.html>

### 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, Gen10 & Gen10 Plus 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>.



## Standard Features

### 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/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 GreenLake for Compute Ops Management

HPE is intelligently transforming compute management with a completely new As a Service experience that delivers greater security, simplicity, and efficiency. Discover a completely modernized compute management experience delivered through HPE GreenLake that securely streamlines operations from edge-to-cloud, and automates key lifecycle tasks (onboard, update, manage and monitor HPE servers), bringing the agility and greater efficiencies to wherever compute devices reside via a unified single browser-based interface.

Compute Ops Management is built on a unique cloud-native architecture that abstracts, manages and controls HPE servers regardless of physical location. The management application resides in the HPE GreenLake cloud platform (access via <https://console.greenlake.hpe.com>) and leverages the HPE GreenLake architecture, security, and unified operations.

Each HPE ProLiant Gen11 rack, tower and micro server will include a 3-year subscription to HPE GreenLake for Compute Ops Management - Standard Tier. Upgrades to Standard Tier 5 Year term or to an Enhanced Tier, 3 or 5 Year term, subscription can be made at time of order. Upgrades to Enhanced tier or OneView can also be made at any time.

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## Warranty

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

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

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## Standard Features

### Security

- UEFI Secure Boot and Secure Start support
  - Immutable Silicon Root of Trust
  - FIPS 140-3 validation (iLO 6 certification in progress)
  - Common Criteria certification (iLO 6 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) 2.0
  - Bezel Locking Kit option
  - Chassis Intrusion detection option
- 



## Optional Features

### Server Management

#### HPE iLO Advanced

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

#### HPE OneView Advanced

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

#### HPE InfoSight for Servers

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

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

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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 have 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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### One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. <https://h22174.www2.hpe.com/SimplifiedConfig/Welcome>

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## Service and Support

### HPE Pointnext - Service and Support

No matter where you are in your digital transformation journey, you can count on HPE Pointnext Services to provide the expertise you need, when and where you need it.

#### Advisory and Professional Services

Our Digital Next Advisory approach can help you identify, prioritize, and implement the right transformation initiatives to create new edge experiences, get real-time insights from all your data, and modernize your IT to enable new opportunities.

#### Operational Services

Take your IT operations to the next level with expertise and tools that can help save your staff time, manage complexity, and identify new ways to drive efficiency and effectiveness in your IT.

#### HPE Pointnext Tech Care

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

#### HPE Pointnext Complete Care

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completecure>

#### HPE Lifecycle Services

Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Installation and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- HPE Implementation Assistance Service: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.
  - For a list of the most frequently purchased services using service credits, see the [Universal Service Credits Menu](#)





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## Service and Support

### Other related services from HPE Pointnext Services

#### HPE Education Services

Provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

#### Defective Media Retention

An option available with HPE Pointnext Complete Care and HPE Pointnext Tech Care and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

#### 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 QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

#### AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a brand-new digital and data driven customer experience.

Sign into the new HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts, and powerful troubleshooting support through a new intelligent virtual agent with seamless transition when needed to a live support agent.

Learn more <https://support.hpe.com/hpsc/public/home/signin>

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HPE Support Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find HPE Support Services at <https://ssc.hpe.com/portal/site/ssc/>

#### Consume IT on your terms

**HPE GreenLake** brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

#### Managed services to run your IT operations

**HPE GreenLake Management Services** provide services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation

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## Pre-configured Models

Base & Performance Model		
<b>SKU Number</b>	<b>P55080-B21</b> <b>P55080-291</b> <b>P55080-AA1</b>	<b>P55081-B21</b> <b>P55081-291</b> <b>P55081-AA1</b>
<b>Model Name</b>	HPE ProLiant DL385 Gen11 9124 3.0GHz 16-core 1P 32GB-R 8SFF 800W PS Server	HPE ProLiant DL385 Gen11 9224 2.5GHz 24-core 1P 32GB-R 8SFF 800W PS Server
<b>Processor</b>	9124 (16-Core, 3.0 GHz, 240W)	9224 (24-Core, 2.5 GHz, 240W)
<b>Number of Processors</b>	One processor	One processor
<b>Memory</b>	32 GB RDIMM SR 4800 MT/s (1x 1Rx4 32 GB)	32 GB RDIMM SR 4800 MT/s (1x 1Rx4 32 GB)
<b>Network Controller</b>	BCM 5719 1GbE 4p BASE-T OCP3 Adptr plus choice of standup card	BCM 57416 10GbE 2p BASE-T OCP3 Adptr plus choice of standup card
<b>Storage Controller</b>	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller
<b>Hard Drive</b>	None ship as standard	None ship as standard
<b>Internal Storage</b>	8 SFF Chassis (upgradeable to 24 SFF front + 8 SFF mid + 2SFF rear)	8 SFF Chassis (upgradeable to 24 SFF front + 8 SFF mid + 2SFF rear)
<b>Optical Drive Bay</b>	Optional	Optional
<b>Optical Drive</b>	None ship as standard	None ship as standard
<b>PCI-Express Slots</b>	1-slot (x16) as standard (Slot upgradeable. Please refer to PCIe slot section in this doc)	1-slot (x16) as standard (Slot upgradeable. Please refer to PCIe slot section in this doc)
<b>Power Supply</b>	1x 800W HPE FlexSlot Power Supply	1x 800W HPE FlexSlot Power Supply
<b>Fans</b>	6-standard fans	6-standard fans
<b>Management</b>	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download)	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download)
<b>Energy Star</b>	3.0 certified	3.0 certified
<b>Form Factor</b>	2U Rack, HPE Gen11 rail kit without CMA	2U Rack, HPE Gen11 rail kit without CMA
<b>Warranty</b>	3-year parts, 3-year labor, 3-year onsite support with next business day response.	3-year parts, 3-year labor, 3-year onsite support with next business day response.

## Country Code Key

xx1 = B21 Worldwide

xx1 = 291 Japan

xx1 = AA1 PRC

## Notes:

- The -B21 WW SKU is to be ordered in all countries other than Japan and PRC.
- Performance model will be available in December 2022. Subject to change.



## Configuration Information

### Smart Templates from HPE

HPE is releasing new Smart Template technology in the One Config Advanced (OCA) configurator. These Templates represent the CTO equivalents of the top-selling BTO configurations. They are intended to provide simple starting points to assist you in easily creating and customizing your desired Server solutions. HPE Servers that have Platform Templates, developed by HPE Product Managers, will have a separate tab in the HPE OCA configurator.

### Workload Solutions Templates from HPE

The Workload Solutions Templates build on the Smart Templates technology to easily develop working configurations of the most compelling Workload Solutions. The templates complement the Reference Builds developed by HPE. Workload Solutions templates preconfigure some of the key architecture decisions and make it easier for Sellers to get started and complete a differentiated server solution for your customer's specific workload.

### Mainstream SKUs

HPE launched the Mainstream SKU initiative as a market-driven approach to Demand Steering. It is a simplified portfolio of our top selling options that meet the current and future market trends. HPE has committed to provide a more predictable and faster experience for these options. Mainstream SKUs enjoy higher safety stock levels and have higher fulfillment service levels than non-Mainstream SKUs. Mainstream orders are fulfilled +30% faster than non-Mainstream orders, have fewer shortages and better recovery dates. This platform has Mainstream SKUs in the options portfolio, and is eligible for the improved Mainstream experience. Mainstream SKUs are designated with a Mainstream symbol in our configurators.

### Mainstream Configurations

HPE is using the new Smart Templates technology to present Mainstream configurations. All the options in a Mainstream configuration are pre-selected Mainstream SKUs to optimize the performance, predictability and fulfillment experience. Check the Template section in our configurators for eligible Mainstream configurations.

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

For more information regarding HPE Lot 9 conformance, please visit:

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

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

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



## Configuration Information

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

CTO Server	HPE ProLiant DL385 Gen11 8SFF CTO Server	HPE ProLiant DL385 Gen11 8LFF CTO Server
<b>SKU Number</b>	P53921-B21	P53925-B21
<b>Processor</b>	Not included as standard	Not included as standard
<b>DIMM Slots</b>	24-DIMM slots*	24-DIMM slots*
<b>Storage Controller</b>	Choice of HPE OCP Smart Array and PCIe plug-in controller	
<b>PCIe</b>	One standard in primary riser, up to Eight slots with 2 processors	
<b>Drive Cage - included</b>	8 SFF	8 LFF
<b>Network Controller</b>	Choice of OCP or PCIe stand up card	
<b>Fans</b>	Not included as standard**	
<b>Management</b>	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download), HPE GreenLake for Compute Ops Management (subscription included)	
<b>USB</b>	Front: 1 USB 3.1 Gen1 + iLO service port Rear: 2 USB 3.1 Gen1 Internal: 2 USB 3.1 Gen1	Front: 1 USB 3.1 Gen1 + iLO service port Rear: 2 USB 3.1 Gen1 Internal: 2 USB 3.1 Gen1

#### Notes:

- \* 24 DIMM slots require selection of 2 processors.
- \*\* Fans should be selected separately depending on the configuration.
- 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).
- All CTO servers are Energy Star 3.0 compliant.

CTO Server	8 SFF CTO Chassis	8 LFF CTO Chassis
<b>Included Drive Cage</b>	None included as standard	8 LFF SAS/SATA
<b>Universal Media Bay</b>	Optional	Not available
<b>ODD</b>	Optional	Optional
<b>4 LFF SAS/SATA Drive Cage</b>	Not available	Up to 1 Additional
<b>8 SFF SAS/SATA Drive Cage</b>	Up to 3 Optional	Not available
<b>8 SFF SAS/SATA/NVMe (Mid-tray)</b>	Up to 1 Optional	Not available
<b>8 SFF NVMe U.3 Drive Cage</b>	Up to 3 Optional	Not available
<b>2 SFF SAS/SATA/NVMe (Stacked/Front)</b>	Up to 1 Optional	Not available
<b>2 SFF SATA/NVMe (Side-by-side/Front)</b>	Not available	Up to 1 Optional
<b>4 LFF SAS/SATA (Mid-tray)</b>	Not available	Up to 1 Optional
<b>4 LFF SAS/SATA (Rear)</b>	Not available	Up to 1 Optional

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

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

Please select one –B21 processor required below.

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

#### Notes:

- Mixing of 2 different processor models are NOT allowed. For example: first processor, select P53696-B21 then for second processor, select P53696-B21 as well.
- Processor kits don't include heat sink and fans.



## Configuration Information

### Step 2a: Choose Processors

#### Processor Option Kits

AMD EPYC 9124 3.0GHz 16-core 200W Processor for HPE	P53702-B21
AMD EPYC 9224 2.5GHz 24-core 200W Processor for HPE	P58540-B21
AMD EPYC 9354 3.25GHz 32-core 280W Processor for HPE	P53701-B21
AMD EPYC 9554 3.1GHz 64-core 360W Processor for HPE	P53700-B21
AMD EPYC 9654 2.4GHz 96-core 360W Processor for HPE	P53696-B21
AMD EPYC 9174F 4.1GHz 16-core 320W Processor for HPE	P53698-B21
AMD EPYC 9374F 3.85GHz 32-core 320W Processor for HPE	P53710-B21

#### Notes:

- For processors less than 240W, standard heatsink and standard fan kit are required. User is allowed to change to performance/max performance heatsink and performance fan kit
- If Processor wattage is above 240W and below 300W then High Performance Heat Sink and High Performance fan kit must be selected
- If Processor wattage is above 300W then Maximum Performance HS and Max Performance fan kit must be selected
- If Processor is above 300W then Mid Cage cannot be selected

### Step 2b: Choose Memory Options

Please select one or more memory from below.

For new Gen11 memory population rule whitepaper and optimal memory performance guidelines, please go to:

<http://www.hpe.com/docs/amd-population-rules-Gen10Plus>

For additional information, please see the [HPE DDR5 SmartMemory QuickSpecs](#).

For Gen11 memory speed table, please go to: <http://www.hpe.com/docs/amd-speed-table-Gen10Plus>

#### Notes:

- Memory DIMM availability with a server platform is dependent upon completion of certification testing.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- System may throttle if ambient temp. is over 30C.
- Memory compatibility may vary or be limited within a specific server family depending upon the specific configuration being requested. Because each server environment and requirements can vary, memory compatibility is based not only upon the server family, but may also be affected by the amount and type of additional hardware options installed within a specific server configuration. For this reason, some HPE memory DIMMs may be qualified for a server model or family and yet occasionally not be supported with limited configurations within that server family. Please consult with the HPE server Quickspecs or your HPE representative if you have any questions regarding memory compatibility with a specific HPE server configuration.

#### Registered DIMMs (RDIMMs)

HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-42-42-42 EC8 Registered Smart Memory Kit	P50309-B21
HPE 32GB (1x32GB) Single Rank x4 DDR5-4800 CAS-42-42-42 EC8 Registered Smart Memory Kit	P50310-B21
HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-42-42-42 EC8 Registered Smart Memory Kit	P50311-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-42-42-42 EC8 Registered Smart Memory Kit	P50312-B21

#### Notes:

- Mixing of x4 & x8 memory is not allowed
- For more detailed information regarding memory population rules, please visit <https://www.hpe.com/docs/server-memory>



## Configuration Information

### Step 2c: Choose Power Supplies

Select one or two power supplies from below.

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

#### HPE Flex Slot Power Supplies

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38997-B21
HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit	P17023-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38995-B21

#### Notes:

- Mixing of different Power Supply SKU is not allowed
- 1600W -48VDC PSU requires 1x HPE 1600W DC PSU power lug option kit or HPE 1600W DC PSU Power Cable Kit
- 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/poweradvisor>.
- 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 2d: Choose Backplane

- Select up to 3x front cage/ 1x mid cage/ 1x rear cage (8SFF chassis); 1x additional front cage/ 1x mid cage/ 1x rear cage (8LFF chassis)
- In this generation of DL385, backplane power cables need to be selected separately. Part number and notes describes below

HPE ProLiant DL385 Gen11 SFF Backplane Power Cable Kit	P57845-B21
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**Notes:** If Front 8SFF Drive cage is selected Qty above one then SFF Backplane Power Cable Kit must be selected

HPE ProLiant DL385 Gen11 8SFF Tri-Mode U.3 x1 BC Backplane Kit	P55082-B21
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#### Notes:

- x1 U.3 8SFF Drive cage can only support SAS/SATA drives
- Backplane power cable kit needs to be selected to support this backplane
- Configurable up to 3
- OROC and PCIe controllers support this backplane. OROC x1 or PCIe x1 cable kit selection is needed for controller support
- Mixture of x1 U.3 8SFF and x4 U.3 8SFF backplanes is ALLOWED
- X4 U.3 8SFF mid cage cannot be supported if x1 U.3 8SFF is supported
- Mid cage cannot be supported if server has mixture of x1 U.3 8SFF and x4 U.3 8SFF backplanes

HPE ProLiant DL385 Gen11 8SFF Tri-Mode U.3 x4 BC Backplane Kit	P55083-B21
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#### Notes:

- X4 U.3 8SFF Drive cage can support NVMe and SAS/SATA drives
- Backplane power cable kit needs to be selected to support this backplane
- Configurable up to 3
- OROC and PCIe controllers support this backplane. OROC x2/x4 or PCIe x2/x4 cable kit selection is needed for controller support
- Mixture of x1 U.3 8SFF and x4 U.3 8SFF backplanes is ALLOWED
- Mid cage cannot be supported if server has mixture of x1 U.3 8SFF and x4 U.3 8SFF backplanes



## Configuration Information

HPE ProLiant DL385 Gen11 4LFF SAS/SATA Mid Tray Backplane Kit

P55085-B21

**Notes:**

- This cage kit can only be supported with 8LFF chassis
- This mid cage only allows OROC controllers for controller support. If no controller selected, server can support up to 16x LFF SAS/SATA direct attach with 12 from front cages and 4 from the mid cage
- Two 1U Processor Heatsinks are included in the mid cage kit

HPE ProLiant DL385 Gen11 8SFF Tri-Mode U.3 x1 Mid Tray Backplane Kit

P55086-B21

**Notes:**

- This cage kit can only be supported with 8SFF chassis
- This cage kit can only support SAS/SATA drives
- Mid cage cannot be supported if server has mixture of x1 U.3 8SFF and x4 U.3 8SFF backplanes
- 8SFF x1 U.3 mid cage and 8SFF x4 U.3 front cage cannot mix
- Two 1U Processor Heatsinks are included in the mid cage kit

HPE ProLiant DL385 Gen11 8SFF Tri-Mode U.3 x4 Mid Tray Backplane Kit

P55087-B21

**Notes:**

- This cage kit can only be supported with 8SFF chassis
- Mid cage cannot be supported if server has mixture of x1 U.3 8SFF and x4 U.3 8SFF backplanes
- 8SFF x4 U.3 mid cage and 8SFF x1 U.3 front cage cannot mix
- Two 1U Processor Heatsinks are included in the mid cage kit

HPE ProLiant DL385 Gen11 4LFF SAS/SATA Front FIO Drive Cage Kit

P55089-B21

**Notes:**

- This cage kit can only be supported with 8LFF chassis. Installed on drive cage Box1, it adds front 8LFF to 12LFF
- This cage only allows OROC controllers for controller support. If no controller selected, server can support up to 16x LFF SAS/SATA direct attach with 12 from front cages and 4 from the mid cage
- If this cage is selected, ODD/DP Enablement Kit cannot be selected

HPE ProLiant DL385 Gen11 4LFF SAS/SATA Rear FIO Backplane Kit

P55088-B21

**Notes:**

- This cage kit can only be supported with 8LFF chassis
- Maximum LFF drive count is 20x LFF when 12LFF front + 4LFF mid + 4LFF rear is configured
- If 4LFF Rear drive cage is selected then 2SFF TM U.3 x4 BC Frnt/Rear Kit cannot be selected in the Tertiary location
- When this drive cage is selected, then Primary upgrade riser, Secondary upgrade Risers kit, Tertiary Riser or 1 x16 2U Secondary Riser Kit cannot be selected

HPE ProLiant DL385 Gen11 2SFF Tri-Mode U.3 x4 BC Front/Tertiary Drive Cage Kit

P55091-B21

**Notes:**

- This cage kit can be supported in the 8SFF Universal Media Bay or rear Tertiary position
- Only Tri-mode controller is supported with this cage kit. No direct attach

HPE ProLiant DL385 Gen11 2SFF Tri-Mode U.3 x4 BC Side-by-Side Drive Cage Kit

P55093-B21

**Notes:**

- This cage kit can only be supported with 8LFF chassis on LFF Box1 position. Therefore when this is configured, 4LFF front cage cannot be supported
- Only Tri-mode controller is supported with this cage kit. No direct attach

## Configuration Information

HPE ProLiant DL3X5 Gen11 SFF Universal Media Bay Kit

P57857-B21

### Notes:

- Can only be supported with 8SFF chassis
- This kit is required to support ODD with SFF configurations
- 2SFF x4 Tri-Mode cage kit is supported with selection of this UMB kit

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### 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 ProLiant DL385 Gen11 8NVMe U.3 2P Balanced FIO Bundle Kit

P59754-B21

HPE ProLiant DL385 Gen11 8NVMe U.3 1P Direct FIO Bundle Kit

P59755-B21

HPE ProLiant DL385 Gen11 16NVMe U.3 2P Balanced FIO Kit

P59756-B21

HPE ProLiant DL385 Gen11 24NVMe U.3 2P Balanced FIO Kit

P59875-B21

HPE ProLiant DL385 Gen11 System Insight Display Kit

P57895-B21

### HPE Security Options

HPE Trusted Supply Chain for HPE ProLiant

P36394-B21

HPE Trusted Supply Chain E-LTU

R6X85AAE

### Notes:

- Intrusion Cable Kit (P48922-B21) must be selected with then Trusted Supply Chain Config
- If Trusted Supply Chain section is selected, only one instance of the HPE Trusted Supply Chain E-LTU software option is required per order (not per server)

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

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## Core Options

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

### HPE Unique Options

#### Riser Kits

The CTO or BTO server has 1x Primary riser (slot3) by default. Here are the additional risers available to select  
HPE ProLiant DL385 Gen11 x16/x16 Primary FIO Upgrade Riser Kit P57890-B21

##### Notes:

- This provides Slot1 and Slot2 in the Primary position
- Cannot be selected if 4LFF rear cage is selected

HPE ProLiant DL385 Gen11 x16 2U Secondary Riser Kit P55097-B21

##### Notes:

- This provides Slot6 in the Secondary position
- This requires the 2nd processor
- This riser kit is required to select the 2x16 Secondary Riser Upgrade Kit

HPE ProLiant DL385 Gen11 x16/x16 Secondary Upgrade Riser Kit P57891-B21

##### Notes:

- This provides Slot4 and Slot5 in the Secondary position
- This requires the 2nd processor
- To select this kit, the 1x16 Secondary Riser Kit is required

HPE ProLiant DL385 Gen11 2x16 Tertiary Riser FIO Kit P57893-B21

##### Notes:

- This provides Slot7 and Slot8 in the Tertiary position
- This requires the 2nd processor

HPE ProLiant DL385 Gen11 x16 Primary FIO Riser Kit for LFF Rear Cage P55098-B21

##### Notes:

- This provides one Primary riser positioned below the 4LFF rear cage when it is configured
- When the 4LFF rear cage is configured, only one Primary riser is supported

HPE ProLiant DL385 Gen11 1x16 Secondary Riser FIO Kit for 4LFF rear cage P57892-B21

##### Notes:

- This provides one Secondary riser positioned below the 4LFF rear cage when it is configured
- When the 4LFF rear cage is configured, only one Secondary riser is supported

HPE ProLiant DL385 Gen11 x16 Low Profile Secondary Riser Kit P59260-B21

##### Notes:

- This provides one Secondary riser positioned below the 4LFF rear cage when it is configured
- This riser kit is required when NS204i-u NVMe Boot Device is selected along with 4LFF rear cage selection

### Cooling Options

HPE ProLiant DL3X5 Gen11 Standard 2U Heat Sink Kit P58458-B21

**Notes:** When Standard or Performance 2U Heat Sink Kit is selected, Standard/Perf Air Baffle Kit is required

HPE ProLiant DL3X5 Gen11 Performance 2U Heat Sink Kit P58459-B21

**Notes:** When Maximum Performance 2U Heat Sink Kit is selected, Hi-Perf Air Baffle Kit is required

HPE ProLiant DL3X5 Gen11 2U Standard Fan Kit P58464-B21

HPE ProLiant DL3X5 Gen11 2U Performance Fan Kit P58465-B21

##### Notes:

- Gen11 Fan Kits contain only 1 fan
- 1-socket config 6 Standard Fan kits, 2-socket config needs 6 Standard Fan kits
- 1-socket config 4 Performance Fan kits, 2-socket config needs 6 Performance Fan kits



## Core Options

HPE ProLiant DL385 Gen11 2U Standard/Performance FIO Air Baffle Kit	P57886-B21
HPE ProLiant DL385 Gen11 2U High Performance FIO Air Baffle Kit	P57887-B21

### Notes:

- Air Baffles cannot be configured if mid cages are configured
- Refer to OCA for Air Baffle configuration rules
- When Standard or Performance 2U Heat Sink Kit is selected, Standard/Perf Air Baffle Kit is required
- When Maximum Performance 2U Heat Sink Kit is selected, Hi-Perf Air Baffle Kit is required

Cooling options summary			
CPU cTDP	= < 240W (8LFF and 8/16SFF)	240W – 320W	= > 320 W
Heatsink	Standard 2U H/S	Performance 2U H/S	Max Performance 2U H/S
Fans	Standard Fans	Performance Fans	Performance Fans

## HPE Boot Controllers

HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	P48183-B21
HPE ProLiant DL3X5 Gen11 NS204i-u NVMe Hot Plug Boot Device Cable Kit	P57013-B21
HPE ProLiant DL3X5 Gen11 Tertiary NS204i-u NVMe Hot Plug Boot Device Enablement Kit	P57850-B21
HPE ProLiant DL3X5 Gen11 Secondary NS204i-u NVMe Hot Plug Boot Device Enablement Kit	P57885-B21

### Notes:

- NS204i-u is the HPE Gen11 Hot Pluggable M.2 NVMe RAIDed Boot Device
- HPE DL3X5 Gen11 NS204i-u NVMe Boot Cable Kit is required when the NS204i-u boot device is configured along with the 4LFF rear cage
- If HPE DL3X5 Gen11 Tertiary NS204i-u Enablement Kit is configured, then Tertiary riser kit cannot be selected
- If HPE DL3X5 Gen11 Secondary NS204i-u Enablement Kit is configured, then 2x16 Secondary Upgrade Riser Kit cannot be selected

## HPE Optical Drives

HPE 9.5mm SATA DVD-ROM Optical Drive	726536-B21
HPE 9.5mm SATA DVD-RW Optical Drive	726537-B21
HPE Mobile USB DVD-RW Optical Drive	701498-B21

### Notes:

- Maximum 1 Optical Drive is supported
- ODD needs Universal Media Bay for 8SFF CTO Server



## Core Options

### Software as a Service Management

#### HPE GreenLake for Compute Ops Management

##### Base SKU

HPE GreenLake for Compute Ops Management Standard 3-year Upfront ProLiant SaaS R6Z89AAE

##### Upgrade SKUS

HPE GreenLake for Compute Ops Management Standard 1-year Upfront ProLiant SaaS R6Z88AAE

HPE GreenLake for Compute Ops Management Standard 5-year Upfront ProLiant SaaS R6Z90AAE

HPE GreenLake for Compute Ops Management Standard 1-year Monthly ProLiant SaaS R6Z91AAE

HPE GreenLake for Compute Ops Management Standard 3-year Monthly ProLiant SaaS R6Z92AAE

HPE GreenLake for Compute Ops Management Standard 5-year Monthly ProLiant SaaS R6Z93AAE

HPE GreenLake for Compute Ops Management Standard 1-year Quarterly ProLiant SaaS R6Z94AAE

HPE GreenLake for Compute Ops Management Standard 3-year Quarterly ProLiant SaaS R6Z95AAE

HPE GreenLake for Compute Ops Management Standard 5-year Quarterly ProLiant SaaS R6Z96AAE

HPE GreenLake for Compute Ops Management Standard 3-year Annual ProLiant SaaS R6Z97AAE

HPE GreenLake for Compute Ops Management Standard 5-year Annual ProLiant SaaS R6Z98AAE

HPE GreenLake for Compute Ops Management Enhanced 1-year Upfront ProLiant SaaS R7A10AAE

HPE GreenLake for Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS R7A11AAE

HPE GreenLake for Compute Ops Management Enhanced 5-year Upfront ProLiant SaaS R7A12AAE

HPE GreenLake for Compute Ops Management Enhanced 1-year Monthly ProLiant SaaS R7A13AAE

HPE GreenLake for Compute Ops Management Enhanced 3-year Monthly ProLiant SaaS R7A14AAE

HPE GreenLake for Compute Ops Management Enhanced 5-year Monthly ProLiant SaaS R7A15AAE

HPE GreenLake for Compute Ops Management Enhanced 1-year Quarterly ProLiant SaaS R7A16AAE

HPE GreenLake for Compute Ops Management Enhanced 3-year Quarterly ProLiant SaaS R7A17AAE

HPE GreenLake for Compute Ops Management Enhanced 5-year Quarterly ProLiant SaaS R7A18AAE

HPE GreenLake for Compute Ops Management Enhanced 3-year Annual ProLiant SaaS R7A19AAE

HPE GreenLake for Compute Ops Management Enhanced 5-year Annual ProLiant SaaS R7A20AAE

##### HPE OneView

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

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

**Notes:** For customers purchasing HPE GreenLake for Compute Ops Management, without a hardware purchase or a BTO purchase, use this base SKU within ASQ order:

HPE GreenLake for Compute Ops Management Base SaaS R6Z73AAE

For more information, visit the HPE GreenLake for Compute Ops Management QuickSpecs:

<https://www.hpe.com/psnow/doc/a50004263enw>

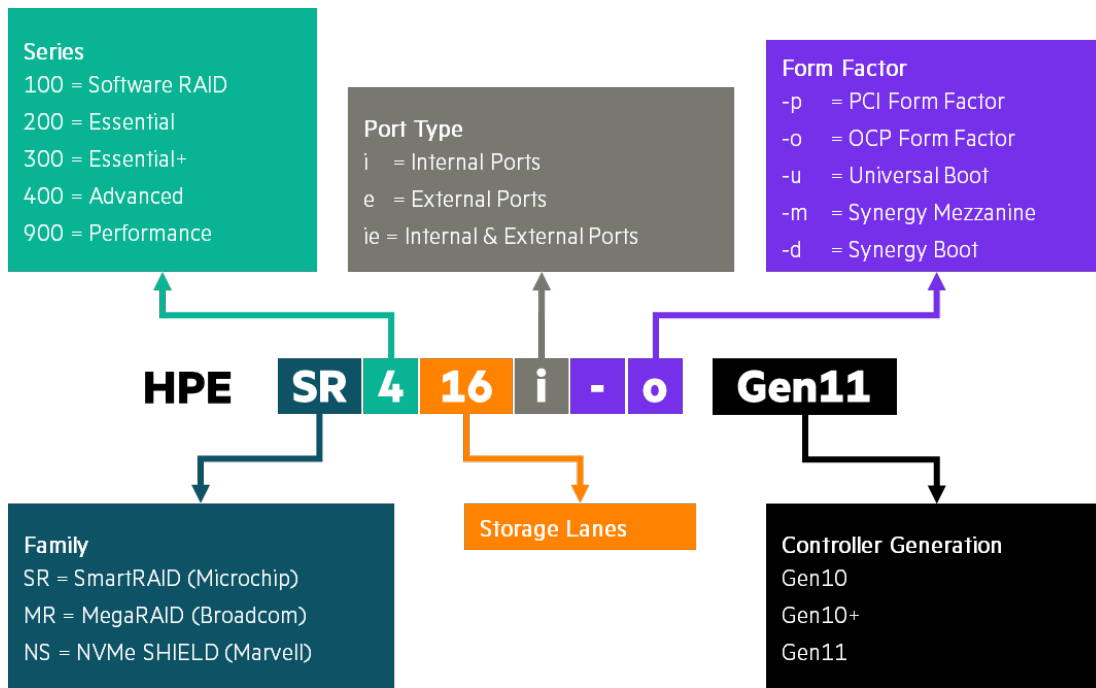
Supported Servers – CTO only. No OEM. – Complete list can be found here: Latest Supported Server List:

<https://www.hpe.com/info/com-supported-servers>



## Core Options

### HPE Smart Array Controllers



**Notes:**

- When selecting SR RAID controllers for external storage (E208e, 804398-B21) and MR RAID controllers for internal storage (MR216i/MR416i/MR408i) in the order, please be aware these two products use different RAID configuration tools.
- Not supporting mixing of MR (MegaRAID) series internal controllers and SR (SmartRAID) series internal controllers
- MR (MegaRAID) series controllers are not supported with Intelligent Provisioning feature
- For more information on the HPE Gen11 Storage Controller, please refer to:
  - [HPE Compute MR Gen11 Controllers Quick Spec](#)
  - [HPE Compute SR Gen11 Controllers Quick Spec](#)

### Essential RAID Controllers

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

**Notes:**

- This controller supports up to 8 SAS/SATA Drives (external)
- For more information on the HPE Smart Array E208i-p SR Gen10 Controller, please refer to the [QuickSpecs](#)

### Tri-mode RAID Controllers

HPE MR216i-o Gen11 x16 Lanes without Cache OCP SPDM Storage Controller P47789-B21

**Notes:**

- This is an OROC type controller which takes up an OCP slot
- This controller supports up to 16 SAS/SATA/NVMe Drives (Only 4 x4 NVMe drives can be supported; 8 x2 NVMe drives can be supported)

HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller P58335-B21

**Notes:**

- This is an OROC type controller which takes up an OCP slot



## Core Options

- This controller supports up to 8 SAS/SATA/NVMe Drives (Only 2 x4 NVMe drives can be supported; 4 x2 NVMe drives can be supported)

HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller P47781-B21

### Notes:

- This is an OROC type controller which takes up an OCP slot
- This controller supports up to 16 SAS/SATA/NVMe Drives (Only 4 x4 NVMe drives can be supported; 8 x2 NVMe drives can be supported)

HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller P47785-B21

### Notes:

- This is an PCIe type controller which takes up a PCIe slot
- This controller supports up to 16 SAS/SATA/NVMe Drives (Only 4 x4 NVMe drives can be supported; 8 x2 NVMe drives can be supported)

HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller P47777-B21

### Notes:

- This is an PCIe type controller which takes up a PCIe slot
- This controller supports up to 16 SAS/SATA/NVMe Drives (Only 4 x4 NVMe drives can be supported; 8 x2 NVMe drives can be supported)

HPE SR932i-p Gen11 x32 Lanes 8GB Wide Cache PCI SPDM Plug-in Storage Controller P47184-B21

### Notes:

- This is an PCIe type controller which takes up a PCIe slot
- This controller supports up to 32 SAS/SATA/NVMe Drives (Only 8 x4 NVMe drives can be supported; 16 x2 NVMe drives can be supported)

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## Controller Battery Cable Kits

HPE Smart Storage Hybrid Capacitor with 260mm Cable Kit P02381-B21

HPE 96W Smart Storage Lithium-ion Battery with 260mm Cable Kit P01367-B21

HPE ProLiant DL3X5 Gen11 Smart Storage Battery 2P 96W Cable Kit P57884-B21

### Notes:

- The two 260mm battery cable kit can't be selected together.
- The Extension cable kit is required for either the selection of Hybrid Capacitor or 96W Smart Storage Battery

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## HPE Drives

### Enterprise - 12G SAS - SFF Drives

HPE 300GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD P28028-B21

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD P28352-B21

HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD P28586-B21

HPE 300GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD P40430-B21

HPE 900GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD P40432-B21

HPE 600GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD P53560-B21

HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD P53561-B21

HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD P53562-B21

### Midline - 12G SAS - SFF Drives

HPE 2TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty 512e HDD P28505-B21

HPE 1TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty HDD P53563-B21



## Core Options

### Midline - 12G SAS - LFF Drives

HPE 12TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	881781-B21
HPE 14TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	P09155-B21
HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	834031-B21
HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	833926-B21
HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	833928-B21
HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	861746-B21
HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P23608-B21
HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P37669-B21
HPE 10TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD	P53556-B21
HPE 20TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P53553-B21

### Midline - 6G SATA - SFF Drives

HPE 1TB SATA 6G Business Critical 7.2K SFF BC 1-year Warranty HDD	P28610-B21
HPE 2TB SATA 6G Business Critical 7.2K SFF BC 1-year Warranty 512e HDD	P28500-B21

### Midline - 6G SATA - LFF Drives

HPE 2TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861681-B21
HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861683-B21
HPE 1TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861686-B21
HPE 12TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	881787-B21
HPE 14TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	P09165-B21
HPE 8TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	834028-B21
HPE 6TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	861742-B21
HPE 16TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P23449-B21
HPE 18TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P37678-B21
HPE 10TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD	P53557-B21
HPE 20TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P53554-B21

### SED (Self-Encryption Drive)

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Self-encrypting HDD	P28618-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Self-encrypting HDD	P28622-B21

#### Notes:

- Requirements for MR Tri-mode controller SED support
  - o TPM is not required for Local Key Management as key is stored in controller
  - o iLO Advanced is required for Remote Key Management. Key is stored in remote key manager } (Ex. ESKM)

## SSD Selection

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

HPE 960GB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40506-B21
HPE 1.92TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40507-B21
HPE 3.84TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40508-B21
HPE 7.68TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40509-B21
HPE 1.92TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49031-B21

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

HPE 960GB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40510-B21
HPE 1.92TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40511-B21
HPE 3.84TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40512-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-B21



## Core Options

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

HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD P37009-B21

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

HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD P40502-B21

HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD P40503-B21

HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD P40504-B21

HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD P40505-B21

HPE 480GB SATA 6G Mixed Use SFF BC PM897 SSD P44011-B21

HPE 960GB SATA 6G Mixed Use SFF BC PM897 SSD P44012-B21

HPE 1.92TB SATA 6G Mixed Use SFF BC PM897 SSD P44013-B21

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

HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD P40496-B21

HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD P40497-B21

HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD P40498-B21

HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD P40499-B21

HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD P40500-B21

HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD P40501-B21

HPE 480GB SATA 6G Read Intensive SFF BC PM893 SSD P44007-B21

HPE 960GB SATA 6G Read Intensive SFF BC PM893 SSD P44008-B21

HPE 1.92TB SATA 6G Read Intensive SFF BC PM893 SSD P44009-B21

HPE 3.84TB SATA 6G Read Intensive SFF BC PM893 SSD P44010-B21

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

HPE 960GB SATA 6G Read Intensive LFF LPC Multi Vendor SSD P47808-B21

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

HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD P50216-B21

HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD P50219-B21

HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD P50222-B21

HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD P50224-B21

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

HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50227-B21

HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50230-B21

HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50233-B21

## HPE Tape Backup

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

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

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

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

## HPE Storage Options

### Emulex Fibre Channel HBAs

HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter R2J62A

HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter R2J63A

HPE SN1700E 64Gb 1-port Fibre Channel Host Bus Adapter R7N77A

HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter R7N78A



## Core Options

### QLogic Fibre Channel HBAs

HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	R2E08A
HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	R2E09A

## HPE Networking

### 1 Gigabit Ethernet adapters

Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P21106-B21
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21

### 10 Gigabit Ethernet adapters

Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21

### 10/25 Gigabit Ethernet adapters

Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P26264-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21

### 100/200 Gigabit Ethernet adapters

Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	P25960-B21
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	P21112-B21
Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	P10180-B21

#### Notes:

- Almost all PCIe Networking Cards need 6x Performance Fans. Refer to OCA configurator for exceptions and details
- 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:  
<https://h20195.www2.hpe.com/v2/getpdf.aspx/A00002507ENW.pdf>

Recommended System Ambient Temperature						
System Config	CPU cTDP	P08458-B21	R8M41A	P25960-B21	P21112-B21	P10180-B21
12 LFF	< or = 240W	30C	30C	30C	30C	30C
24SFF		30C	30C	30C	30C	30C
8 LFF / 16 SFF	> 240W	30C	30C	30C	30C	25C
12 LFF		25C	25C	25C	25C	25C
24SFF		25C	25C	25C	25C	25C
8SFF		30C	30C	30C	30C	30C

#### Notes: Other Restrictions

1. Required to use Performance Fan Kit
2. Only supported on 1/4/5/6/7 PCIe slots
3. This recommended system ambient temperature is based on HPE AOC (Active Optical Cables)





## Core Options

### OCP Adapter

#### 1 Gigabit Ethernet OCP adapters

Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P51181-B21

#### 10 Gigabit Ethernet OCP Adapters

Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P26256-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21

#### 10/25 Gigabit Ethernet OCP adapters

Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE	P26269-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21

#### 100/200 Gigabit Ethernet adapters

Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	P22767-B21
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#### Notes:

- Almost all PCIe Networking Cards need 6x Performance Fans. Refer to OCA configurator for exceptions and details
- P22767-B21 and P26269-B21 needs selection of an OCP upgrade cable kit

### Recommended System Ambient Temperature

System Config	CPU cTDP	P26269-B21	P10106-B21	P42041-B21	P22767-B21
12 LFF	< or = 240W	30C	30C	30C	30C
24 SFF		30C	30C	30C	30C
8 LFF /16 SFF	>240W	25C	25C	30C	30C
12 LFF		25C	25C	25C	25C
24 SFF		25C	25C	25C	25C
8 SFF		30C	30C	30C	30C

#### Notes: Other Restrictions

1. Required to use Performance Fan Kit
2. This recommended system ambient temperature is based on HPE AOC (Active Optical Cables)

### HPE InfiniBand

HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter	P23665-B21
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter	P23666-B21
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter	P23664-B21
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	P31324-B21
HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter	P45641-B21
HPE InfiniBand NDR200 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter	P45642-B21
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter	P31323-B21
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	P31348-B21

#### Notes:

- All InfiniBand options require 6 performance fan kit
- For InfiniBand OCP options, OCP upgrade kit is needed
- 200Gb 2-port OCP option cannot be supported with Mid Cages due to thermal restriction
- For more information, please visit: [HPE InfiniBand Options for HPE ProLiant and Apollo Servers](#)



## Core Options

Recommended System Ambient Temperature								
System Config	CPU cTDP	P23666-B21	P23664-B21	P31324-B21	P45641-B21	P45642-B21	P31323-B21	P31348-B21
12 LFF	< or = 240W	30	30	30	30	30	30	23
24 SFF		30	30	30	30	30	30	25
8 LFF /16 SFF	>240W	30	30	25	30	30	25	25
12 LFF		25	25	25	25	25	25	Not Support
24 SFF		25	25	25	25	25	25	Not Support
8 SFF		30	30	30	30	30	30	25

### Notes: Other Restrictions

1. Required to use Performance Fan Kit
2. Only supported on 1/4/5/6/7 PCIe slots
3. The P31348-B21 only supported on 2 OCP slot
4. This recommended system ambient temperature is based on HPE AOC (Active Optical Cables)

HPE ProLiant DL3X5 Gen11 x16 OCP1 1P Upgrade Cable Kit

P57882-B21

### Notes:

- This cable kit cannot be selected when 2 processors are configured

HPE ProLiant DL3X5 Gen11 x16 OCP1 OCP2 2P Upgrade Cable Kit

P57849-B21

### Notes:

- This cable kit needs 2 processors configured
- When this cable kit is selected then the Secondary Riser Upgrade Kit cannot be configured
- When this cable kit is selected then 8SFF x4 U.3 Mid Cage cannot be supported with Direct Attach

## HPE Power Supplies

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen10 Plus Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

### Notes:

- Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <https://poweradvisorext.it.hpe.com/?Page=Index>
- HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). Visit [HPE Power Cords and Cables](#) for a full list of optional power cords.

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

P38995-B21

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

HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit

P17023-B21

### Notes:

- Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.
- HPE 1600W DC PSU Power Lug Option Kit (P36877-B21) must be selected along with this power supplies.

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

P38997-B21

### Notes:

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



Core Options

– The power supply selected only supports high line voltage (200VAC to 240VAC)

HPE 1600W -48VDC Power Cable Lug Kit

P36877-B21

**Notes:** Must be selected along with HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit (P17023-B21)

**Riser Information**

Part number	Description	Riser position (number denotes number of slots present)			Bus width (Gen5 lanes)			NVMe Direct Connect Configurable	
		Primary	Secondary	Tertiary	Top slot	Middle Slot	Bottom slot	Drive Cages	Drive count
N/A	This is the default riser in the chassis	1	0	0	0	0	X16	0	0
Default riser + P57890-B21	Default riser + HPE DL385 G11 2x16 Prim FIO Upg Rsr Kit	3	0	0	X16	X16	X16	0	0
P55097-B21	HPE DL385 Gen11 x16 Slot6 Sec Riser Kit	0	1	0	0	0	X16	0	0
P55097-B21 + P57891-B21	HPE DL385 Gen11 x16 Slot1 Sec Riser Kit + HPE DL385 Gen11 2x16 Sec Upg Riser Kit	0	3	0	X16	X16	X16	0	0
P57893-B21	HPE DL385 Gen11 2x16 Tert FIO Riser Kit	0	0	2	X16	X16	0	0	0
P55098-B21	HPE DL385 G11 x16 Prim FIO Rsr LFF Rear*	1 (Below 4LFF)	0	0	0	0	X16	0	0
P57892-B21	HPE DL385 Gen11 x16 Sec FIO Rsr LFF Rear**	0	1 (Below 4LFF)	0	0	0	X16	0	0
P59260-B21	HPE DL385 Gen11 x16 LP Sec Riser Kit***	0	1 (Below 4LFF + when NS204i-u boot device is supported)	0	0	0	X16	0	0

**Notes:**

- \* P55098-B21 is supportable when 4LFF rear cage is selected. With this rear cage configured, primary position is supported up to 1 riser
- \*\* P57892-B21 is supportable when 4LFF rear cage is selected. With this rear cage configured, secondary position is supported up to 1 riser
- \*\*\* P59260-B21 is supportable when 4LFF rear cage + NS204i-u M.2 boot device are selected. This riser kit is an alternative to P57892-B21 riser kit in the secondary position
- An illustration of the 4LFF rear cage, Primary riser kit (P55098-B21) and LP Sec. riser kit (P59260-B21) are as follows:



## Additional Options

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

### Embedded Management

#### HPE iLO Advanced

HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO for Open Distributed Infrastructure Management 3-year 24x7 LTU	R4H59A
HPE iLO for Open Distributed Infrastructure Management 1-year 24x7 LTU	R4H60A
HPE iLO for Open Distributed Infrastructure Management 3-year 24x7 E-LTU	R4H61AAE
HPE iLO for Open Distributed Infrastructure Management 1-year 24x7 E-LTU	R4H62AAE
HPE iLO for Open Distributed Infrastructure Management 3-year 24x7 AKA Tracking E-LTU	R4H63AAE
HPE iLO for Open Distributed Infrastructure Management 1-year 24x7 AKA Tracking E-LTU	R4H64AAE
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 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 Converged Infrastructure Management Software

HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU	K6F98AAE
HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView Upgrade from Insight Management 3yr 24x7 Support 1-server LTU	F6Q91A
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Track 1-server LTU	E5Y36A
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

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

#### HPE Security

HPE Bezel Lock Kit	875519-B21
HPE ProLiant DL385 Gen11 Intrusion Cable Kit	P55713-B21
HPE Gen11 2U Bezel Kit	P50400-B21

## Additional Options

### HPE Cable Options

HPE ProLiant DL3X5 Gen11 XGMI Interconnection Cable Kit	P57880-B21
<b>Notes:</b> This option kit is current unavailable and can't be ordered on HPE configurator/ordering tool. It will be available soon by Q1'2023	
HPE ProLiant DL385 Gen11 8SFF x1 SATA Direct Attach Cable Kit	P57846-B21
HPE ProLiant DL385 Gen11 8SFF x2 NVMe Direct Attach Cable Kit	P57859-B21
<b>Notes:</b> This DA Cable kit requires 8SFF x4 U.3 front drive cage	
HPE ProLiant DL385 Gen11 8SFF x4 NVMe Box 3 Direct Attach Cable Kit	P57853-B21
HPE ProLiant DL385 Gen11 8SFF x4 NVMe Box 2 Direct Attach Cable Kit	P57854-B21
HPE ProLiant DL385 Gen11 8SFF x4 NVMe Box 1 Direct Attach Cable Kit	P57855-B21
<b>Notes:</b> These three x4 NVMe direct attach cable kits are used for 8SFF x4 U.3 drive cages. Acquire these by selecting the matching NVMe Bundle SKU	
HPE ProLiant DL385 Gen11 8SFF OROC x1 SAS/SATA Cable Kit	P57847-B21
<b>Notes:</b> This OROC Cable kit is used with 8SFF x1 U.3 front drive cage	
HPE ProLiant DL385 Gen11 8SFF x1 SAS/SATA PCIe Cable Kit	P57848-B21
<b>Notes:</b> This PCIe Cable kit is used for 8SFF x1 U.3 front drive cage	
HPE ProLiant DL385 Gen11 8SFF x4 NVMe PCIe Cable Kit	P57856-B21
<b>Notes:</b>	
– This PCIe Cable kit is used for 8SFF x4 U.3 drive cage	
– This cable kit supports the SR932i-p controller	
HPE ProLiant DL385 Gen11 8SFF OROC x2 NVMe Box 3 Cable Kit	P57862-B21
HPE ProLiant DL385 Gen11 8SFF OROC x2 NVMe Box 2 Cable Kit	P57863-B21
HPE ProLiant DL385 Gen11 8SFF OROC x2 NVMe Box 1 Cable Kit	P57864-B21
<b>Notes:</b> These three x2 OROC tri-mode cable kits are used for 8SFF x4 U.3 drive cages	
HPE ProLiant DL385 Gen11 8SFF x2 NVMe PCIe Cable Kit	P57865-B21
<b>Notes:</b> This PCIe Cable kit is used for 8SFF x4 U.3 drive cages	
HPE ProLiant DL385 Gen11 8SFF x1 SAS/SATA OROC/PCIe Mid Tray Cable Kit	P57868-B21
<b>Notes:</b> This OROC/PCIe Cable kit is used for 8SFF x1 U.3 Mid Cage kit	
HPE ProLiant DL385 Gen11 8SFF x2 NVMe Mid Tray PCIe Splitter Cable Kit	P57869-B21
<b>Notes:</b> This PCIe Cable kit is used for 8SFF x4 U.3 Mid Cage kit	
HPE ProLiant DL385 Gen11 8LFF OROC x1 SAS/SATA Cable Kit	P57870-B21
HPE ProLiant DL385 Gen11 SFF Backplane Power Cable Kit	P57845-B21
<b>Notes:</b> If Front 8SFF Drive cage is selected Qty above one then SFF Backplane Power Cable Kit must be selected	
HPE ProLiant DL36X Gen11 Rear Serial Port Cable Kit	P59431-B21

### HPE Disk-Based Backup

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

## Additional Options

### HPE Racks

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

### HPE Power Distribution Units (PDUs)

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

### HPE Uninterruptible Power Systems (UPS)

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

### HPE Rack Options

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

### Rail Kits

#### Notes:

- Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
- CTO Models do not ship with rail kits, they need to be ordered seperately

HPE DL3XX Gen11 Easy Install Rail 2 Kit

P52351-B21

**Notes:** Supported on both SFF and LFF Models

HPE DL38X Gen10 Plus 2U Cable Management Arm for Rail Kit

P22020-B21

**Notes:** Supportable when rail kit is selected



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## Additional Options

### HPE Support Services

#### Installation & Startup Services

HPE Install ProLiant 300 Series	U4554E
HPE Install & Startup ProLiant 300 Series	U4555E

#### Tech Care

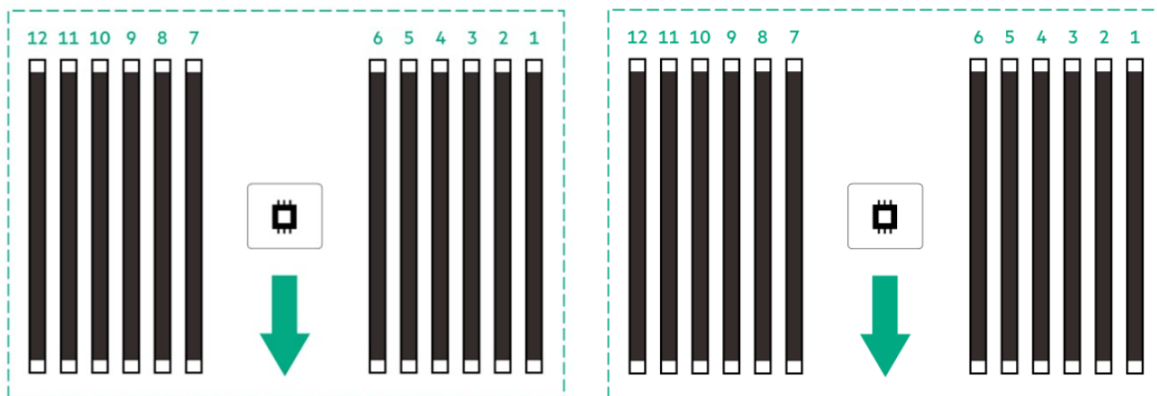
HPE 3Y Tech Care Essential DL385 GEN11 Service	H79H3E
HPE 3Y Tech Care Essential wDMR DL385 GEN11 Service	H79H4E
HPE 5Y Tech Care Essential DL385 GEN11 Service	H79K7E
HPE 5Y Tech Care Essential wDMR DL385 GEN11 Service	H79K8E

**Notes:** For a full listing of Support Services available for this server, please visit <http://www.hpe.com/services>.

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## Memory



----- Front side of the server -----

### General Memory Population Rules and Guidelines

- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two-processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- When two processors are installed, balance the DIMMs across the two processors.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, the number and model of installed processors qualified on the platform.
- To realize the performance memory capabilities listed in this document, HPE DDR5 SmartMemory is required. For additional information, please see the: [HPE DDR5 Smart Memory QuickSpecs](#)
- For General Server Memory and Persistent Memory Population Rules and Guidelines, see details here: <http://www.hpe.com/docs/memory-population-rules>
- For details on the HPE Server Memory speed, visit: <http://www.hpe.com/docs/amd-speed-tables>

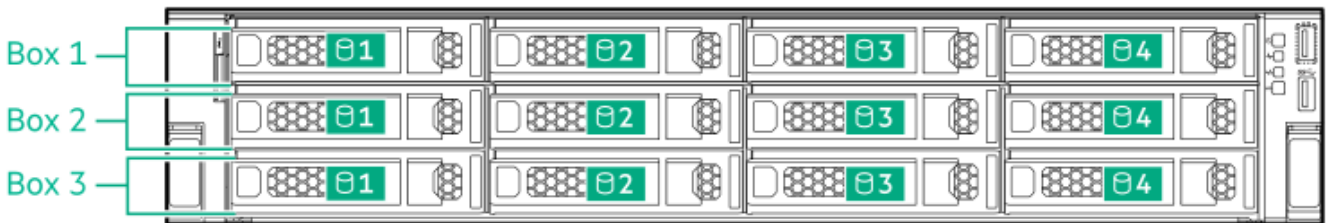




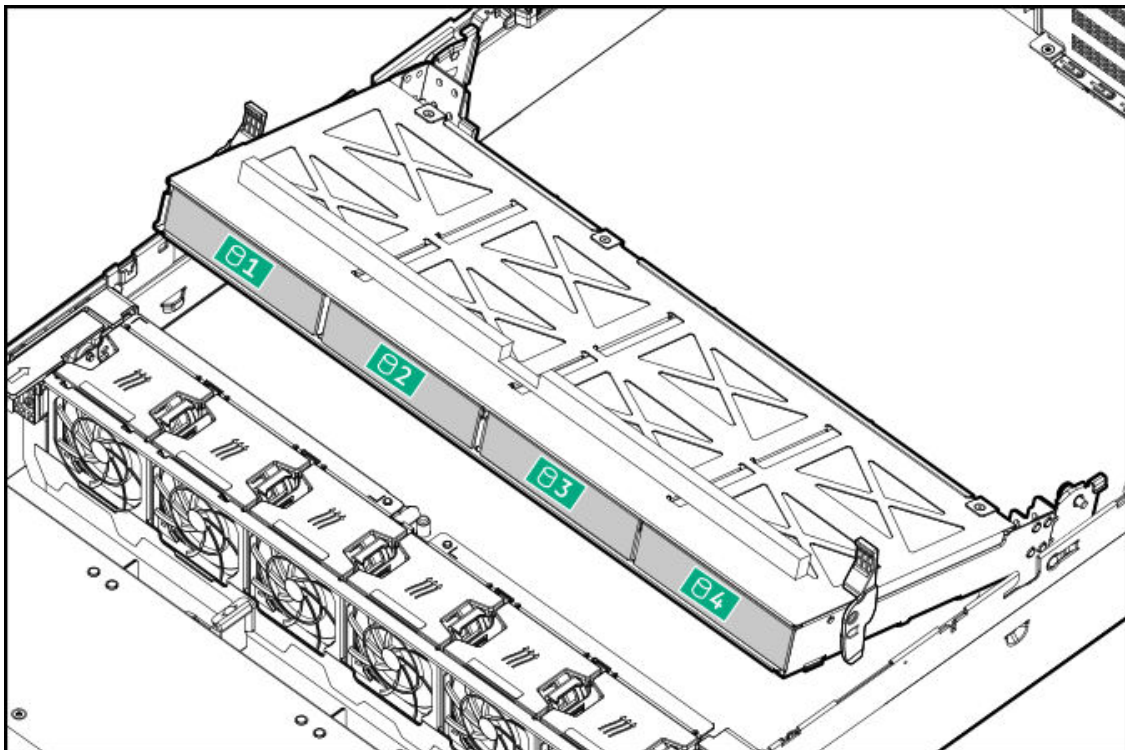
Storage



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



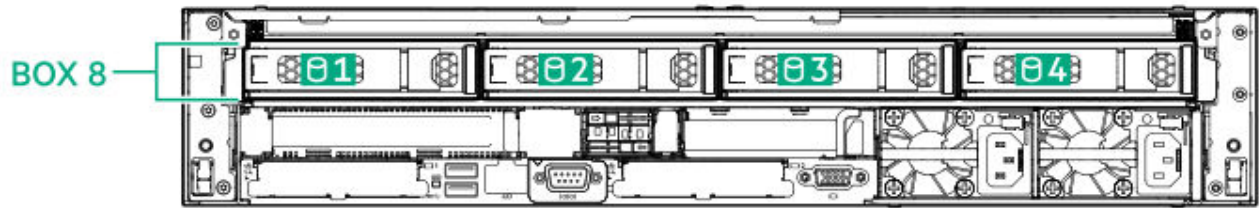
12LFF Front Panel



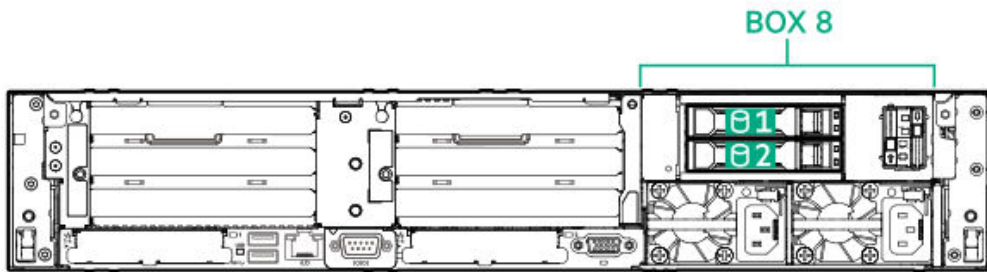
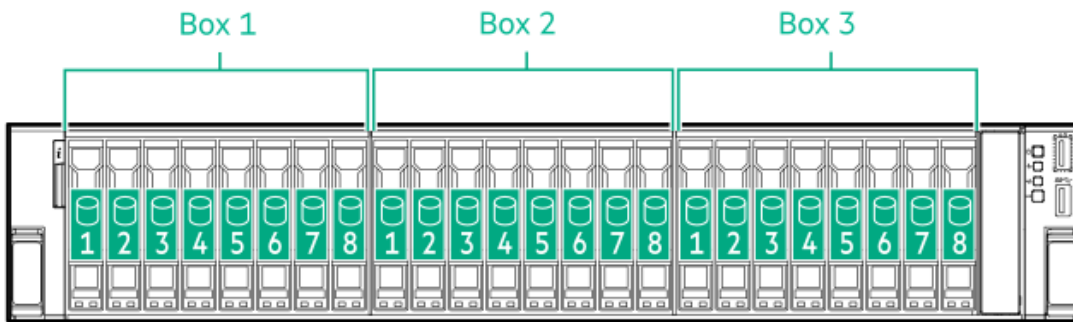
Midplane Box (LFF)



Storage



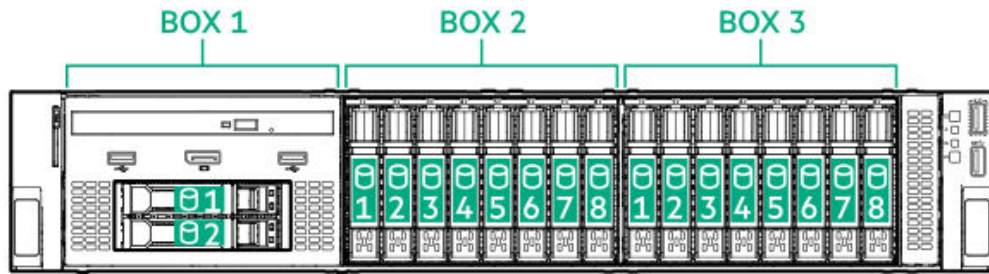
Rear Panel 1x 4LFF



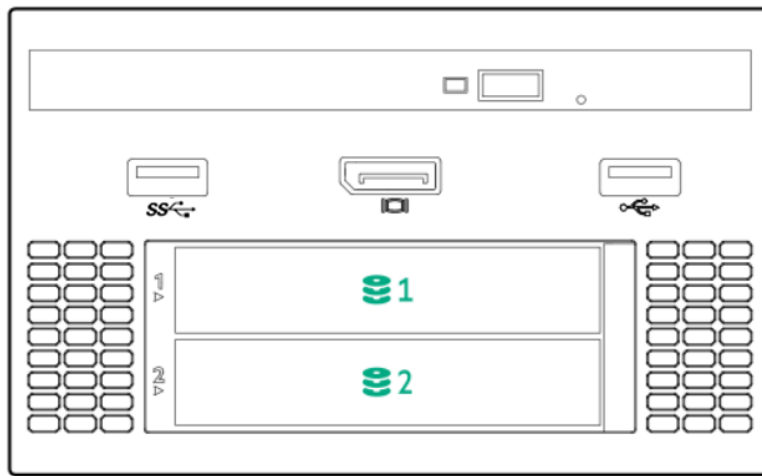
24 SFF + rear 2 SFF drives



Storage



16 SFF + Universal Media Bay



Universal Media Bay



## Technical Specifications

### System Unit

#### Dimensions

- **SFF Drives**  
8.75 x 43.47 x 64.64 cm; 3.44 x 17.11 x 25.44 in
- **LFF Drives**  
8.75 x 43.47 x 66.3 cm; 3.44 x 17.11 x 26.1 in
- **Packaging**  
91.8 x 60 x 27 cm; 36.13 x 23.63 x 10.63 in

#### Weight (approximate)

- **SFF configuration**
  - **Maximum** 33.4 kg / 73.48 lbs with 24 hard drives  
Packaged weight: 39.54 kg
  - **Minimum** 16.78 kg / 36.92 lbs 8 SFF chassis with 1x SFF HDD and 7 HDD blanks, 2x Drive Bay blanks, 1x processor including standard heat sink, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above)  
Packaged weight: 26.2 kg
- **LFF configuration**
  - **Maximum** 36.72 kg / 80.78 lbs with 12x LFF hard drives (no rear drives), 2x processors, 2x power supplies, 1x Smart Array, 2x Risers installed)  
Packaged weight: 42.82 kg
  - **Minimum** 18.24 kg / 40.13 lbs with 1x LFF hard drive and 7 HDD blanks  
Packaged weight: 28.42 kg

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#### Input Requirements (per power supply)

##### Rated Line Voltage

- 100 to 120 VAC
- 200 to 240 VAC

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#### BTU Rating

##### Maximum

- For 1600W Power Supply: 5918 BTU/hr (at 200 VAC), 5884 BTU/hr (at 240 VAC) for China
- 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

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#### Power Supply Output (per power supply)

##### Rated Steady-State Power

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

##### Maximum Peak Power

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



## Technical Specifications

### System Inlet Temperature

- **Standard Operating Temperature**

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.

System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

- **Extended Ambient Operating Temperature**

For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: <http://www.hpe.com/servers/ashrae>

For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: <http://www.hpe.com/servers/ashrae>

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).

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### Relative Humidity

- **Operating**

8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.

- **Non-operating** (non-condensing)

5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.

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### Altitude

- **Operating**

3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

- **Non-operating**

9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

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### RTC Accuracy

- 50 ppm
- 

### 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>

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## Technical Specifications

### Acoustic Noise

Listed are the declared mean A-Weighted sound power levels (LwAm), declared average bystander position A-Weighted sound pressure levels (LpAm) and the statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power level, LwA,m when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below.

<b>Idle</b>	
LWAd	5.0 B Base
LpAm	36 dBA Base
<b>Operating</b>	
LWAd	5.5 B Base
LpAm	37 dBA Base

#### Notes:

- The declared mean A-weighted sound power level, LWA,m, is computed as the arithmetic average of the measured.
- A-weighted sound power levels for a randomly selected sample, rounded to the nearest 0,1 B.
- The declared mean A-weighted emission sound pressure level, LpA,m, is computed as the arithmetic average of the measured A-weighted emission sound pressure levels at the bystander positions for a randomly selected sample, rounded to the nearest 1 dB.
- The statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power level, LWA,m, such that there will be a 95 % probability of acceptance, when using the verification procedures of ISO 9296, if no more than 6,5 % of the batch of new equipment, has A-weighted sound power levels greater than (LWA,m + Kv).
- The quantity, LWA,c (formerly called LWAd), can be computed from the sum of LWA,m and Kv.
- All measurements made to conform to ISO 7779 / ECMA-74 and declared to conform to ISO 9296 / ECMA-109.
- B, dB, abbreviations for bels and decibels, respectively, where 1 B = 10 dB.
- The results in this declaration apply only to the model numbers listed above when operating and tested according to the indicated modes and standards. A system with additional configuration components or increased operating functionality may increase the noise emission values.

### 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
19-Dec-2022	Version 3	Changed	Standard Features <b>section was updated.</b>
05-Dec-2022	Version 2	Changed	Standard Features, Configuration Information, Core Options and Additional Options sections were updated.
10-Nov-2022	Version 1	New	New QuickSpecs



## Copyright

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