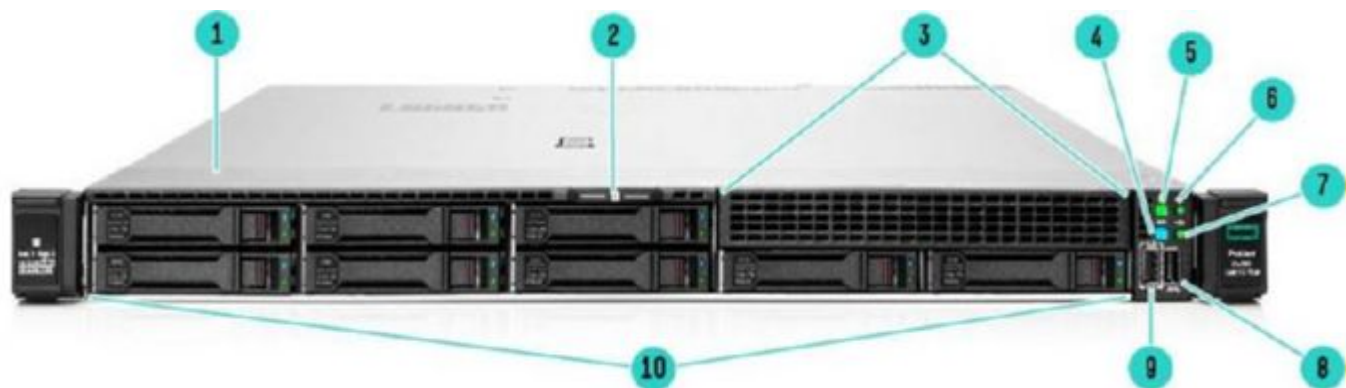


Overview

HPE ProLiant DL365 Gen10 Plus server

The HPE ProLiant DL365 Gen10 Plus Server is redefining price/performance with the new math for virtualized compute. Powered by the latest AMD® EPYC® 7003 Series Processors , the HPE ProLiant DL365 Gen10 Plus Server offers greater processing power, memory speeds up to 3200 MT/s. and data transfer rates with PCIe Gen4 capabilities.

This 2P, 1U server has been designed with flexibility while delivering a high core count and large memory footprint. Choose this purpose-built platform for virtualization, High Performance Compute and memory centric workloads.

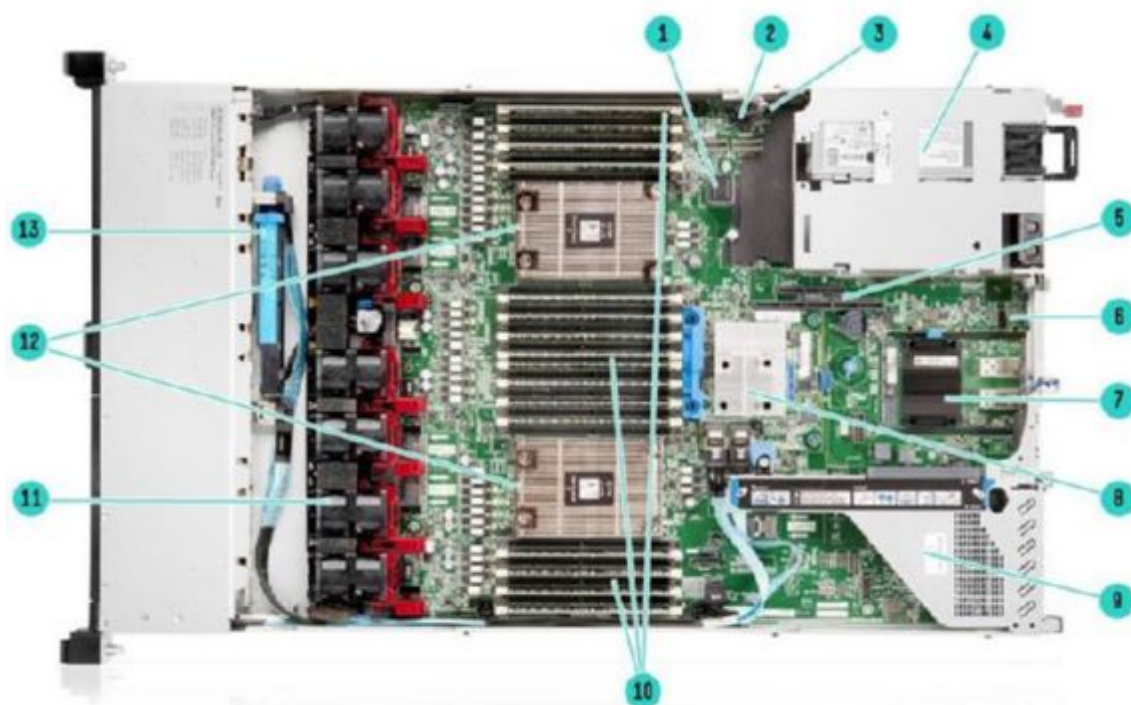


8 SFF Front View - 8 SFF & No Media Option Shown

- | | |
|--|-------------------------------|
| 1. Quick removal access panel | 6. Health LED |
| 2. Serial no. label pull tab | 7. NIC status LED |
| 3. Optional Media Bay: | 8. USB 3.1 Gen1 port |
| Option Shown: no media | |
| Optional: +2SFF U.3 SAS/SATA/NVMe drives (total max 10SFF) | |
| Optional: +2FF U.2 NVMe drives (total max 10SFF) | |
| Optional: 9.5mm SATA DVD-ROM/RW Optial Drive | |
| 4. UID button/LED | 9. iLO Service Port |
| 5. Power On/Standby button and sytem power LED | 10. 8 SAS/STA/NVMe drive bays |

Notes: System Insight Display (SID) module will include #4-9 above

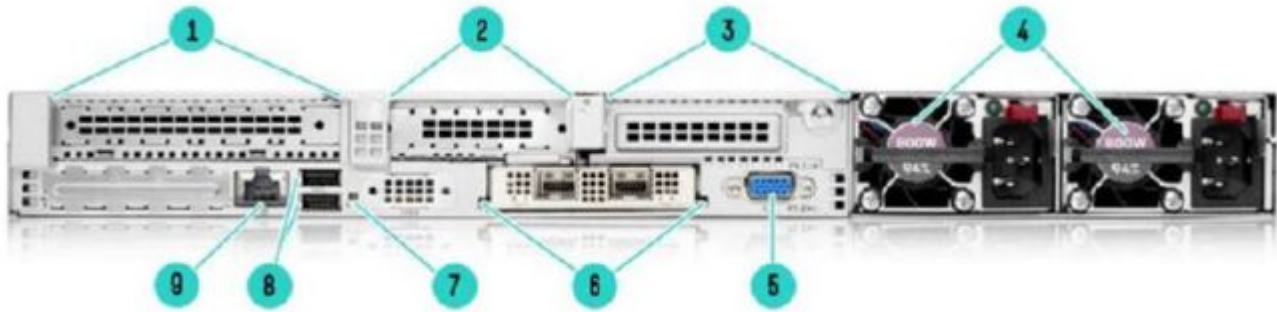
Overview



Internal View - Standard for all DL365 Gen10 Plus

- | | |
|---|--|
| 1. Internal USB 3.1 Gen1 connector | 8. Optional HPE Flexible Smart Array Controller (Type-a shown) |
| 2. Hard drive backplane power connector | 9. Primary PCIe riser, standard |
| 3. Chassis intrusion detection connector | 10. DDR4 DIMM slots, shown fully populated in 32 slots |
| 4. Hot Plug redundant HPE Flexible Slot Power supplies | 11. Fan cage shown with 7 High Performance Fans |
| 5. Secondary Riser connector (Using tertiary connector). Requires a second processor. | 12. 2 processors (heat sinks shown) |
| 6. Serial Port Connector | 13. Optional: Smart Storage Battery |
| 7. (Under) OCP 3.0 Slot | |

Overview



Rear View - Standard for all DL365 Gen10 Plus

- | | |
|---|------------------------|
| 1. Slot 1 PCIe 4.0 | 6. OCP 3.0 Slot |
| 2. Slot 2 PCIe 4.0 | 7. UID LED |
| 3. Optional: Slot 3 PCIe 4.0 (Requires 2 nd processor) | 8. USB 3.1 Gen1 Ports |
| 4. Hot-plug Power Supply 1 and 2 | 9. iLO Management Port |
| 5. VGA port | |

What's New

- Supports the latest AMD EPYC 7003 Series processor
- Support for Tri-mode storage controllers for SAS/SATA/NVMe drives
- New Basic Carrier SAS/SATA/NVMe drives
- European Union (EU) Lot 9 regulation, please visit:

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

Standard Features

Platform Information

Form Factor

- 1U rack

Chassis Types

- 8 SFF with optional optical drive kit, and optional SFF or NVMe drive bay options

System Fans

- Standard or performance fans are not included in the CTO chassis.
- 2 CPUs
 - Standard fan kits should be supported when the processors are equal to or lower than 155W
 - Performance fan kits should be supported when the processors are higher than 155W
 - Performance fan kits should be required when drive is NVMe or SAS4 drives.
 - Performance fan kits should be required when the processors are higher than 155W.
 - Performance fan kits should be required when networking PCI/OCP cards are equal or above 100G
 - Performance fan kits should be required when PCIe SATA/NVMe adapter and Riser NVMe adapter are selected

Notes:More supporting conditions will be described in further sections

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 7763	64	2.45 GHz	3.5 GHz	4TB	280W	256MB	3200MT/s
EPYC 7713	64	2.0 GHz	3.675 GHz	4TB	225W	256MB	3200MT/s
EPYC 7663	56	2.0 GHz	3.5 GHz	4TB	240W	256MB	3200MT/s
EPYC 7643	48	2.3 GHz	3.6 GHz	4TB	225W	256MB	3200MT/s
EPYC 7543	32	2.8 GHz	3.7 GHz	4TB	225W	256MB	3200MT/s
EPYC 7513	32	2.6 GHz	3.65 GHz	4TB	200W	128MB	3200MT/s
EPYC 7453	28	2.75 GHz	3.45 GHz	4TB	225W	64MB	3200MT/s
EPYC 7443	24	2.85 GHz	4.0 GHz	4TB	200W	128MB	3200MT/s
EPYC 7413	24	2.65 GHz	3.6 GHz	4TB	180W	128MB	3200MT/s
EPYC 7343	16	3.2 GHz	3.9 GHz	4TB	190W	128MB	3200MT/s
EPYC 7313	16	3.0 GHz	3.7 GHz	4TB	155W	128MB	3200MT/s
EPYC 75F3	32	2.95 GHz	4.0 GHz	4TB	280W	256MB	3200MT/s
EPYC 74F3	24	3.2 GHz	4.0 GHz	4TB	240W	256MB	3200MT/s
EPYC 73F3	16	3.5 GHz	4.0 GHz	4TB	240W	256MB	3200MT/s
EPYC 72F3	8	3.7 GHz	4.1 GHz	4TB	180W	256MB	3200MT/s
EPYC 7702	64	2.0 GHz	3.35 GHz	4TB	200W	256MB	3200MT/s
EPYC 7502	32	2.5 GHz	3.35 GHz	4TB	180W	128MB	3200MT/s
EPYC 7452	32	2.35 GHz	3.35 GHz	4TB	155W	128MB	3200MT/s

Standard Features

EPYC 7302	16	3.0 GHz	3.3 GHz	4TB	155W	128MB	3200MT/s
EPYC 7262	8	3.2 GHz	3.4 GHz	4TB	155W	128MB	3200MT/s
EPYC 7773X	64	2.2 GHz	3.5 GHz	4TB	280W	768MB	3200MT/S
EPYC 7573X	32	2.8 GHz	3.6 GHz	4TB	280W	768MB	3200MT/S
EPYC 7473X	24	2.8 GHz	3.7 GHz	4TB	240W	768MB	3200MT/S
EPYC 7373X	16	3.05 GHz	3.8 GHz	4TB	240W	768MB	3200MT/S

Notes:

- All AMD EPYC processors can support up to 4TB of memory per each single CPU
- More EPYC processors will be supported on the server later in time
- Rome processors don't support storage tri-mode controllers

Chipset

No chipset - System on Chip (SoC) design.

System Management Chipset

HPE iLO 5 ASIC

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

Memory

One of the following depending on model

Type	HPE DDR4 SmartMemory, Registered (RDIMM)
DIMM Slots Available	32 16 DIMM slots per processor, 8 channels per processor, 2 DIMMs per channel
Maximum capacity (RDIMM)	8.0TB 32 x 256 GB LRDIMM @ 3200 MT/s at 1 DPC, 2933 MT/s at 2 DPC

Notes:

- The maximum memory speed is limited by the processor selection.
- 3200 MT/s memory SKUs can run the transfer rate of 3200 MT/s at both 1 DIMM and 2 DIMM per channel, except 256 GB LRDIMM
- DIMM blank kit (P07818-B21) is required for empty DIMM slots.

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

Standard Features

Primary GPU Riser (Default Riser)					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 4.0	X16	X16	Full-height, 3/4-length slot	Proc 1
2	PCIe 4.0	X16	X16	Low Profile, half-length slot	Proc 1

Primary M.2 NS204i-r Riser					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 4.0	X16	X16	Full-height,3/4-length slot	Proc 1
2	PCIe 4.0	X8	X8	Low Profile, half-length slot	Proc 1

Secondary GPU Riser*					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
3	PCIe 4.0	X16	X16	Full-height,3/4-length slot	Proc 2

Secondary Riser					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
3	PCIe 4.0	X16	X16	Low Profile,half-length slot	Proc 2

Notes: *If this option is selected, Slot 2 cannot be used on any of the primary risers selected.

Internal Storage Devices

- Optical Drive

Available on 8 SFF CTO Servers as an option (DVD-ROM or DVD-RW)

- Hard Drives

None ship standard

Storage Controllers

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

Standard Features

HPE also launched Tri-Mode controllers which will support NVMe U.3/U.2 drives as well as SAS/SATA drives. Please see below list for the tri-mode controllers supported on the server. For a more detailed breakout of the available Tri-Mode controllers visit the [HPE Gen10 Plus Tri-Mode Controllers Data Sheet](#)

NVMe Boot Device

- HPE NS204i-p NVMe PCIe3 OS Boot Device

Software RAID - HPE Smart Storage SR100i SR Gen10 Plus SW RAID

- All models feature an embedded storage controller, capable of operating on AHCI or SR100i modes, with embedded software supporting RAID for either up to 8SFF SATA drives or 2 U.3 NVMe SSDs.
- HPE Smart Storage SR100i SR Gen10 Plus SW RAID will operate in UEFI mode only. Legacy Mode (758959-B22) and SR100i Gen10 Plus SW RAID cannot be selected together. For legacy support, and additional controller will be needed.
- Embedded SATA controller by default will work in AHCI Mode. HPE Smart Storage SR100i SR Gen10 Plus SW RAID for SATA can be enabled by selecting HPE DL365 Gen10+ SR100i SATA FIO Software RAID (P55046-B21).
- HPE Smart Storage SR100i SR Gen10 Plus SW RAID for NVMe can be enabled by selecting HPE SR100i Gen10 Plus FIO Software RAID (P28417-B21)
- Supports Microsoft Windows Server only.

Essential RAID Controller

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

Performance RAID Controller

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

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

Tri-Mode RAID Controller

- HPE Tri-Mode MR216i-a Gen10 Plus Controller
- HPE Tri-Mode MR216i-p Gen10 Plus Controller
- HPE Tri-Mode MR416i-a Gen10 Plus Controller
- HPE Tri-Mode MR416i-p Gen10 Plus Controller
- HPE Tri-Mode SR416i-a Gen10 Plus Controller
- HPE Tri-Mode SR932i-p Gen10 Plus Controller

Notes:

– Rome processors can't support tri-mode controllers.

– SR932i-p can only be supported on a x16 electrical PCIe slot. For PCIe slot information, refer to the "Expansion Slots" section in this document

Graphics

Integrated Video Standard

Standard Features

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

HPE iLO 5 on system management memory

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

Maximum Storage

Storage	Capacity	Configuration
Hot Plug SFF SAS HDD	24 TB	8+2 x 2.4 TB
Hot Plug SFF SATA HDD	20 TB	8+2 x 2.0 TB
Hot Plug SFF SAS SSD	153 TB	8+2 x 15.3 TB
Hot Plug SFF SATA SSD	76.8 TB	8+2 x 7.68 TB
Hot Plug SFF NVMe PCIe SSD	153.6 TB	8+2 x 15.36 TB

Power Supply

- HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Notes: Available in 94% Power Efficiency.
- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Notes: Available in 94%. Power Efficiency
- HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
Notes:
 - Available in 96% Power Efficiency
 - 200-240VAC power input only.
- HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit
Notes:
 - Available in 94% Power Efficiency
 - 277VAC power input.
- HPE 800W Flex Slot 48VDC Hot Plug Low Halogen Power Supply Kit
Notes:
 - Available in 94% Power Efficiency
 - 48VDC power input.
- 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

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

Standard Features

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

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

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

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

Interfaces

Serial	1 port - Optional in rear
Video	1 Front - Display port (optional) 1 Rear - VGA port (standard on all chassis types) Notes: Both ports are not active simultaneously.
Network Ports	None. Choice of OCP or stand up card
HPE iLO Remote Management Network Port	1 Gb Dedicated
Front iLO Service Port	1 standard
USB 3.1 Gen1	Up to 5 total: 1 front, 2 rear, 2 internal (standard on all chassis types) +2 optional USB 2.0 front
SID (Systems Insight Display)	Optional

Operating Systems and Virtualization Software Support for ProLiant Servers

- Windows Server 2016
- Windows Server 2019 (Most Recent Version)
- Windows Server 2022
- VMware ESXi 6.7 U3
- VMware ESXi 7.0 U1/U2
- **SUSE Linux Enterprise Server (SLES)** 12 SP5
- **SUSE Linux Enterprise Server (SLES)** 15 SP2
- **Red Hat Enterprise Linux (RHEL)**
 - AMD EPYC 7003 Series Processors: 8.3
 - AMD EPYC 7002 Series Processors: 7.6, 8.0
- Citrix Hypervisor 8.2

Standard Features

- Ubuntu 20.04 LTS

Notes: 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/Legacy ROM

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

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 enable for enhanced security
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack

HPE Server UEFI/Legacy ROM

- Embedded UEFI Shell
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- PXE boot support for IPv6 networks
- Workload Profiles for simple performance optimization

UEFI Boot Mode only:

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

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

Industry Standard Compliance

- ACPI 6.1 Compliant
- PCIe 4.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- VGA/Display Port
- USB 3.1 Gen1 Compliant (internal)

Standard Features

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

Embedded Management

HPE Integrated Lights-Out (HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO.

Learn more at <http://www.hpe.com/info/ilo>.

UEFI

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

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

Intelligent Provisioning

Hassle free server and OS provisioning for 1 or more servers with Intelligent Provisioning.

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

Standard Features

iLO RESTful API

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

Server Utilities

Active Health System

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

Active Health System Viewer

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

Smart Update

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

Learn more at <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 and Gen10 HPE servers at unmatched speed and scale. Use with an iLO Advanced License to unlock full capabilities.

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

HPE iLO Mobile Application

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

RESTful Interface Tool

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

Scripting Tools

Provision one to many servers using your own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell.

Learn more at <http://www.hpe.com/servers/stk> and <http://www.hpe.com/servers/powershell>.

Standard Features

HPE OneView Standard

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

HPE Systems Insight Manager (HPE SIM)

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

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/>.

Security

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

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

HPE OneView Advanced

HPE OneView brings a new level of automation to infrastructure management by taking a template driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It provides full-featured licenses which can be purchased for managing Gen8, Gen9, 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>

Server Management

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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.

Optional Features

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](#).

One Config Simple (SCE)

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

Service and Support

HPE Pointnext - Service and Support

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

Consume IT on your terms

HPE GreenLake 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 provides 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.

Recommended Services

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

Service and Support

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

Other related Services

HPE Server Hardware Installation

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

<https://h20195.www2.hpe.com/v2/Getdocument.aspx?docname=5981-9356enw>

HPE Installation and Startup Service

Provides for the installation of your HPE hardware according to product specifications including options. The HPE service delivery technician will connect the product to a LAN as appropriate and enable remote support to allow for automatic case creation for hardware failures. Installation and start up services also includes the installation of one supported operating system type (Windows® or Linux).

DC for Hyperscale

Complete Care for Hyperscale is available for Service Providers and HPC customers who use a scale out approach to computing with a high volume homogenous infrastructure and resilient architecture can take advantage of this environment support tailored to their operating model.

HPE Factory Express for Servers and storage

HPE Factory Express offers configuration, customization, integration and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAXxxx3PAR suite, XP, rackable tape libraries and configurable network switches.

HPE Service Credits

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

HPE Education Services

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

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

Service and Support

HPE Support Center

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

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

The HPE Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.

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

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

Notes: HPE ProLiant DL385 Gen10 Plus Server is covered under the HPE Service Contract applied to the HPE ProLiant Server. No separate HPE support services need to be purchased.

Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS batteries over 12KVA. See the specific high value options that require additional support [here](#).

Parts and Materials

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

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

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

Configuration Information

Entry & Base Models		
SKU Number	P39366-B21 P39366-291	P39367-B21 P39367-291
Model Name	HPE ProLiant DL365 Gen10 Plus 7262 3.2GHz 8-core 1P 32GB-R 8SFF 500W PS Server	HPE ProLiant DL365 Gen10 Plus 7313 2.9GHz 16-core 1P 32GB-R 8SFF 800W PS Server
Processor	7262 (8-Core, 3.2 GHz, 155W)	7313 (16-Core, 3.0 GHz, 155W)
Number of Processors	One processor	One processor
Memory	32 GB RDIMM SR 3200 MT/s (1x 32 GB)	32 GB RDIMM SR 3200 MT/s (1x 32 GB)
Network Controller	INT I350 1GbE 4p BASE-T OCP3 Adptr plus choice of standup card	INT I350 1GbE 4p BASE-T OCP3 Adptr plus choice of standup card
Storage Controller	P408i-a Notes: 8-Port modular Smart Array.	P408i-a Notes: 8-Port modular Smart Array.
Hard Drive	None ship as standard	None ship as standard
Internal Storage	8 SFF Chassis (upgradeable to 8SFF + 2 SFF front)	8 SFF Chassis (upgradeable to 8SFF + 2 SFF front)
Optical Drive Bay	Optional	Optional
Optical Drive	None ship as standard	None ship as standard
PCI-Express Slots	2-slots (x16, x16) as standard	2-slots (x16, x16) as standard
Power Supply	1x 500W HPE FlexSlot Power Supply	1x 800W HPE FlexSlot Power Supply
Fans	5-standard fans	5-standard fans
Management	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced	
Energy Star	3.0 certified	
Form Factor	1U Rack, SFF Easy Install rails without CMA	1U Rack, SFF Easy Install rails without CMA
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.	

SKU Number	P39368-B21 P39368-291
Model Name	HPE ProLiant DL365 Gen10 Plus 7513 2.6GHz 32-core 1P 32GB-R 8SFF 800W PS Server
Processor	7513 (32-Core, 2.6 GHz, 200W)
Number of Processors	One processor
Memory	32 GB RDIMM SR 3200 MT/s (1x 32 GB)
Network Controller	BCM 57416 10GbE 2p BASE-T OCP3 Adptr plus choice of standup card
Storage Controller	P408i-a Notes: 8-Port modular Smart Array.
Hard Drive	None ship as standard
Internal Storage	8 SFF Chassis (upgradeable to 8SFF + 2 SFF front)
Optical Drive Bay	Optional
Optical Drive	None ship as standard
PCI-Express Slots	2-slots (x16, x16) as standard
Power Supply	1x 800W HPE FlexSlot Power Supply

Configuration Information

Fans	5-high performance fans
Management	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced
Energy Star	3.0 certified
Form Factor	1U Rack, SFF Easy Install rails without CMA
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.

Country Code Key

xx1 = B21 Worldwide
xx1 = 291 Japan

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

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.

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

Network Choice (NC) Models

Network Choice models do not include embedded LOM. To enable networking capability please select either a FlexibleLOM NIC or a validated alternative from the Core Options section.

Configuration Information

CTO Server	DL365 Gen10 Plus 8SFF CTO Server
SKU Number	P38578-B21
TAA SKU*	P43251-B21
Processor	Not included as standard
DIMM Slots	32-DIMM slots*
Storage Controller	Choice of HPE modular Smart Array and PCIe plug-in controller
PCIe	Two standard in primary riser, up to three slots with 2 processors
Drive Cage - included	8 SFF
Network Controller	Choice of OCP or stand up card
Fans	1 CPU - 5 Standard Fans 2 CPU - 7 Standard Fans
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advanced and OneView (optional)
USB	Front: 1 USB 3.1 Gen1 + iLO service port Rear: 2 USB 3.1 Gen1 + 1 VGA port

Notes:

- *32 DIMM slots require selection of 2 processors
- HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed in a designated country. TAA compliance is only provided when HPE options are included as part of factory integrated orders (CTO).
- TAA compliant configuration requires TAA versions of the CTO Server SKUs.
- All CTO servers are Energy Star 3.0 compliant.

CTO Server	8 SFF CTO Chassis
Included Drive Cage	8 SFF
Universal Media Bay	Optional
ODD	Optional
8 SFF SAS/SATA/NVMe	Up to 1 Optional
2 SFF SAS/SATA/NVMe	Up to 1 Optional
Rear Drive Cages	Not Available

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

Configuration Information

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.
For example: first processor, select P38693-B21 then for second processor, select P38693-B21 as well.

- Notes:**
- 8SFF CTO 2P models ship with 7 standard or performance fans, depending on processor selection.
 - Mixing of 2 different processor models are NOT allowed.
 - DDR4 memory speed will depend on the quantity and type of DIMMs installed.
 - Processors greater than 155W will require the High Performance Heat sink.
 - Processors greater than 155W will require the High Performance Fan Kit.
 - Processor kits don't include heat sink and fans.

Step 2a: Choose Processors

Description	SKU
Processor Option Kits	
Notes: System might throttle over 30C and it is expected.	
AMD EPYC 3rd Generation Processors	
AMD EPYC 7763 2.45GHz 64-core 280W Processor for HPE	P38696-B21
Notes:	
– This processor doesn't include a fan kit or a heat sink kit.	
– This processor needs selection of a High Performance Fan Kit (P26477-B21)	
– This processor needs selection of a Max Performance Heat Sink Kit (P43104-B21)	
AMD EPYC 7713 2.0GHz 64-core 225W Processor for HPE	P38693-B21
Notes:	
– This processor doesn't include a fan kit or a heat sink kit.	
– This processor needs selection of a High Performance Fan Kit (P26477-B21)	
– This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)	
AMD EPYC 7663 2.0GHz 56-core 240W Processor for HPE	P38690-B21
Notes:	
– This processor doesn't include a fan kit or a heat sink kit.	
– This processor needs selection of a High Performance Fan Kit (P26477-B21)	
– This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)	
AMD EPYC 7643 2.3GHz 48-core 225W Processor for HPE	P39365-B21
Notes:	
– This processor doesn't include a fan kit or a heat sink kit.	
– This processor needs selection of a High Performance Fan Kit (P26477-B21)	
– This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)	

Configuration Information

AMD EPYC 7543 2.8GHz 32-core 225W Processor for HPE P38687-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7513 2.6GHz 32-core 200W Processor for HPE P38684-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 75F3 2.95GHz 32-core 280W Processor for HPE P38708-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a Max Performance Heat Sink Kit (P43104-B21)

AMD EPYC 7453 2.75GHz 28-core 225W Processor for HPE P38678-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 74F3 3.2GHz 24-core 240W Processor for HPE P38705-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7443 2.85GHz 24-core 200W Processor for HPE P38681-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7413 2.65GHz 24-core 180W Processor for HPE P38675-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 73F3 3.5GHz 16-core 240W Processor for HPE P38702-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7343 3.2GHz 16-core 190W Processor for HPE P38672-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7313 3.0GHz 16-core 155W Processor for HPE P38669-B21

Configuration Information

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a Standard Fan Kit (P37861-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 72F3 3.7GHz 8-core 180W Processor for HPE P38699-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

DL365 Gen10 Plus also supports AMD EPYC 2nd Generation Processors

AMD EPYC 7702 2.0GHz 64-core 200W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39373-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7502 2.5GHz 32-core 180W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39372-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7452 2.35GHz 32-core 155W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39371-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a Standard Fan Kit (P37861-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7302 3.0GHz 16-core 155W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39370-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a Standard Fan Kit (P37861-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7262 3.2GHz 8-core 155W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39369-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a Standard Fan Kit (P37861-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7773X 2.2GHz 64-core 280W Processor for HPE P46915-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a Max Performance Heat Sink Kit (P43104-B21)
- This processor cannot support 2SFF drive cage
- Ambient temperature limited to 23C when 8SFF SAS3/SAS4/SATA/NVMe is selected
- The following options cannot be selected if 256GB DIMMs are in the system: OCP cards equal to or above 100G, PCIe cards equal to or above 100G, HPE Universal SATA AIC HHHL M.2 SSD Kit (878783-B21), HPE NS204i-p NVMe PCIe3 OS Boot Device (P12965-B21), HPE DL36X G10+ x16/x8 M.2 NS204i-r Riser (P26463-B21)

AMD EPYC 7573X 2.8GHz 32-core 280W Processor for HPE P46921-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)

Configuration Information

- This processor needs selection of a Max Performance Heat Sink Kit (P43104-B21)
- This processor cannot support 2SFF drive cage
- Ambient temperature limited to 23C when 8SFF SAS3/SAS4/SATA/NVMe is selected
- The following options cannot be selected if 256GB DIMMs are in the system: OCP cards equal to or above 100G, PCIe cards equal to or above 100G, HPE Universal SATA AIC HHHL M.2 SSD Kit (878783-B21), HPE NS204i-p NVMe PCIe3 OS Boot Device (P12965-B21), HPE DL36X G10+ x16/x8 M.2 NS204i-r Riser (P26463-B21)

AMD EPYC 7473X 2.8GHz 24-core 240W Processor for HPE

P46924-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a Max Performance Heat Sink Kit (P43104-B21)
- This processor cannot support 2SFF drive cage
- Ambient temperature limited to 22C when 8SFF SAS3/SAS4/SATA/NVMe is selected
- The following options cannot be selected if 256GB DIMMs are in the system: OCP cards equal to or above 100G, PCIe cards equal to or above 100G, HPE Universal SATA AIC HHHL M.2 SSD Kit (878783-B21), HPE NS204i-p NVMe PCIe3 OS Boot Device (P12965-B21), HPE DL36X G10+ x16/x8 M.2 NS204i-r Riser (P26463-B21)

AMD EPYC 7373X 3.05GHz 16-core 240W Processor for HPE

P46927-B21

Notes:

- This processor is supported for Private offering only with specific ambient temperature requirements.
Contact HPE local sales representative for more information
- This processor doesn't include a fan kit or a heat sink kit
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a Max Performance Heat Sink Kit (P43104-B21)

CPU Support in Different Chassis Configurations		
Chassis config	25C ambient	35C ambient
8SFF, 10SFF SAS/SATA with standard fans & high performance heat sink	155W(Turbo to 180w)	155W(Turbo to 180w)
8SFF, 10SFF SAS/SATA with high performance fans & high performance heat sink	225W(Turbo to 240w)	225W(Turbo to 240w)
8SFF, 10SFF NVMe with high performance fan & high performance heat sink	225W(Turbo to 240w)	225W(Turbo to 240w)

Step 2b: Choose Memory Options

Please select one or more memory from below.

For new Gen10 Plus memory population rule whitepaper and optimal memory performance guidelines, please go to: <http://www.hpe.com/docs/amd-population-rules-Gen10Plus>

For Gen10 Plus 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.
- 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.

Configuration Information

Registered DIMMs (RDIMMs)

HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07638-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit.	P07640-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07642-B21
HPE 32GB (1x32GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Memory Kit	P38454-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07646-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07650-B21
HPE 128GB (1x128GB) Quad Rank x4 DDR4-3200 CAS-22-22-22 Load Reduced Smart Memory Kit	P07652-B21
HPE 256GB (1x256GB) Octal Rank x4 DDR4-3200 CAS-26-22-22 Load Reduced 3DS Smart Memory Kit	P07654-B21

Recommended System Ambient Temperature for 256GB LRDIMM	
System Config	Ambient Temperature
8SFF (all backplane types)	23C
10SFF (all backplane types)	25C

Notes:

- Mixing of x4 & x8 memory is not allowed
- 3200 MT/s memory SKUs can run the transfer rate of 3200 MT/s at both 1 DIMM and 2 DIMM per channel
- 256GB memory SKU can run the transfer rate of 3200 MT/s at 1 DIMM per channel, but only 2933 MT/s at 2 DIMM per channel
- If 256GB LRDIMM is selected then below options cannot be selected:

- › 878783-B21 HPE Universal SATA AIC HHHL M.2 SSD Kit
- › P26463-B21 HPE DL36X G10+ x16/x8 M.2 NS204i-r Riser
- › 100Gb or above (PCIe/OCP) cards from Networking, Infiniband and Pensando DSP (HW)
 - Rome processors can't support 3200 MT/s at 2 DIMM per channel

Memory Blank Kit

HPE DDR4 DIMM Blank Kit	P07818-B21
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Notes: DIMM blank kit cannot be selected when 32 DIMMs are ordered

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 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38995-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-B21
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 1600W -48VDC Power Cable Lug Kit	P36877-B21

Notes:

- P36877-B21 is to be used with HPE 1600W Flex Slot -48VDC Power Supply Kit
- Only one power cable lug kit needs to be selected with the power supply

Configuration Information

Notes:

- Select one or more power supplies.
- 1600W Power supplies only support high line voltage (200VAC to 240VAC).
- 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>.
- All power supplies in a server should match. Mixing Power Supplies is not supported.
- HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). Visit [HPE power cords](#) for a full list of optional power cords.

Step 3: Choose Additional Factory Integratable Options

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

HPE Unique Options

HPE ProLiant DL36X Gen10 Plus x16/x8 PCIe M.2 NS204i-r Riser Kit P26463-B21

Notes:

- A Max Qty=1 of this Primary riser is allowed per server. It replaces the primary riser that comes standard with the server
- Max Qty 2 of M.2 22110 drives (P40513-B21) must be selected when this option is selected

HPE ProLiant DL36X Gen10 Plus Full Height Riser Kit P26467-B21

Notes:

- A Max Qty=1 of the following list of Secondary riser options is allowed per server. This means that only one item can be selected from the following list:

▫ HPE DL36x Gen10+ 2P FH Riser Kit (P26467-B21)

▫ HPE DL36x Gen10+ LP Riser Kit (P26471-B21)

- Slot 3 supports PCIe 4.0 Full Height/ ¾ Length, x16 bandwidth / x16 connector
- This riser will support GPUs
- This riser requires the selection of a second processor
- With the installation of this option into the server, you will lose physical access to the PCIe 1x8 slot (Slot 2) that is located on the Primary Riser. The "PCIe Card Capacity Limits" must account for this reduction of PCIe slots.

HPE ProLiant DL36X Gen10 Plus Low Profile Riser Kit P26471-B21

Notes:

- A Max Qty=1 of the following list of Secondary riser options is allowed per server. This means that only one item can be selected from the following list:

▫ HPE DL36x Gen10+ 2P FH Riser Kit (P26467-B21)

▫ HPE DL36x Gen10+ LP Riser Kit (P26471-B21)

- Slot 3 supports PCIe 4.0 Low Profile / Half Length, x16 bandwidth / x16 connector
- This riser will not support GPUs
- This riser requires the selection of a second processor

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

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 a Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

HPE Unique Options

Risers

Riser Information						
Part number	Description	Riser position		Slot Bus width (Gen4 lanes)		
		Primary	Secondary	#1	#2	#3
N/A	HPE DL365 Gen10 Plus x16/x16 Riser	D	N	x16	x16	N
P26463-B21	HPE DL36X Gen10+ M.2 NS204i-r Riser Kit	O	N	x16	x8	N
P26467-B21	HPE DL36X Gen10+ FH Riser Kit	N	O	N	N	x16
P26471-B21	HPE DL36x Gen10+ LP Riser Kit	N	O	N	N	x16

Notes: D = Default on chassis; O = Optional; N = not supported or slot/connector not present.

Cooling Options

HPE DL385 Gen10 1U High Performance Heat Sink Kit	P19368-B21
HPE ProLiant DL365 Gen10 Plus Max Performance Heat Sink Kit	P43104-B21

Notes: Max performance Heat Sink Kit must be selected for processors equal to or greater than 280W

HPE ProLiant DL36X Gen10 Plus High Performance Fan Kit	P26477-B21
HPE ProLiant DL36X Gen10 Plus Standard Fan Kit	P37861-B21

Notes: For any processor greater than 155W, the High Performance Fan Kit and Hight Performance Heat Sink must be supported

HPE ProLiant DL365 Gen10 Plus Base Standard Fan Kit	P44887-B21
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Notes: This option must be selected for configurations with one processor that is lower than or equal to 155W

Hard Drive Kits

HPE ProLiant DL360 Gen10 Plus 8SFF x4 Tri-Mode 24G U.3 BC Backplane Kit	P26429-B21
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Notes:

- High Performance Fan Kit (P26477-B21) must be selected if this option is selected.
- U.3 and U.2 backplane kits cannot be mixed.
- If this backplane kit and a tri-mode controller are selected together, then HPE DL36x G10P 8SFF TMode Cable Kit (P26451-B21) must be selected.

HPE ProLiant DL360 Gen10 Plus 8SFF x4 NVMe 16G U.2 BC Backplane Kit	P26433-B21
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Core Options

Notes:

- High Performance Fan Kit (P26477-B21) must be selected if this option is selected.
- U.3 and U.2 backplane kits cannot be mixed.
- If this backplane kit and a tri-mode controller are selected together, then HPE DL36x G10P 8SFF TMode Cable Kit (P26451-B21) must be selected.

HPE ProLiant DL365 Gen10 Plus 8SFF SAS/SATA BC Backplane Kit P38579-B21

Notes:

- If 8SFF & 2SFF UBM2 (SAS/SATA) Backplane Kits are selected, HPE recommends to select either an AROC plus a PCIe Controller or 2x PCIe Controllers.

- o HPE Smart Array P408i-a Controller
- o HPE Smart Array P408i-p Controller
- o HPE Smart Array E208i-a Controller
- o HPE Smart Array E208i-p Controller

HPE ProLiant DL365 Gen10 Plus 2SFF SAS/SATA BC Backplane Kit P38580-B21

Notes:

- 2SFF drive cages cannot be selected without a 8SFF drive cage selection.
- If 8SFF & 2SFF UBM2 (SAS/SATA) Backplane Kits are selected, HPE recommends to select either an AROC plus a PCIe Controller or 2x PCIe Controllers.

- o HPE Smart Array P408i-a Controller
- o HPE Smart Array P408i-p Controller
- o HPE Smart Array E208i-a Controller
- o HPE Smart Array E208i-p Controller

HPE ProLiant DL365 Gen10 Plus 2SFF U.3 BC Premium Backplane Kit P38581-B21

Notes:

- High Performance Fan Kit (P26477-B21) must be selected if this option is selected.
- U.3 and U.2 backplane kits cannot be mixed.
- 2SFF drive cages cannot be selected without a 8SFF drive cage selection.
- If this backplane kit and a tri-mode controller are selected together, then HPE DL365 G10P 2SFF TriM Cable Kit (P36657-B21) must be selected.
- When NVMe drives are setup with SR100i SW RAID, the NVMe drives can only be supported in this backplane kit.

HPE ProLiant DL365 Gen10 Plus 2SFF U.2 BC Premium Backplane Kit P38582-B21

Notes:

- High Performance Fan Kit (P26477-B21) must be selected if this option is selected.
- U.3 and U.2 backplane kits cannot be mixed.
- 2SFF drive cages cannot be selected without a 8SFF drive cage selection.
- If this backplane kit and a tri-mode controller are selected together, then HPE DL365 G10P 2SFF TriM Cable Kit (P36657-B21) must be selected.
- When NVMe drives are setup with SR100i SW RAID, the NVMe drives CANNOT be supported in this backplane kit. SR100i NVMe SW RAID does not support U.2 drives, nor does it support on an U.3 drive installing in an U.2 backplane kit.

HPE ProLiant DL365 Gen10 Plus NVMe Direct FIO Bundle Kit P38587-B21

Notes:

- When this NVMe FIO bundle kit is selected, the configurator will select the below SKUs for customers:

Core Options

- o P26429-B21 - HPE DL360 G10+ 8SFF x4Tmode U3 BC BP Kit
- o P38581-B21 - HPE DL365 Gen10+ 2SFF U.3 BC Prem BP Kit
- o P26477-B21 - High performance Fan kit
 - However customer will be allowed to deselect the U.3 options from this defaulted configuration and select q'ty one each from the below U2 backplane kit options:
- o P26433-B21 - HPE DL360 G10+ 8SFF x4NVMe U.2 BC BP Kit G246
- o P38582-B21 - HPE DL365 Gen10+ 2SFF U.2 BC Prem BP Kit

Universal Media Bay Options

HPE ProLiant DL360 Gen10 Plus 8SFF Display Port/USB/Optical Drive Blank Kit P40003-B21

Notes:
– A Max Qty=1 from the following list of options is allowed per server:

- o HPE DL360 G10+ 8SFF DP/USB/ODD Blnk Kit (P4003-B21)
- o HPE DL365 Gen10+ 2SFF SAS/SATA BC BP Kit (P38580-B21)
- o HPE DL365 Gen10+ 2SFF U.2 BC Prem BP Kit (P38582-B21)
- o HPE DL365 Gen10+ 2SFF U.3 BC Prem BP Kit (P38581-B21)

Optical Drive Options

HPE Mobile USB DVD-RW Optical Drive 701498-B21

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

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

Notes:
– This option cannot be selected along with HPE Universal SATA AIC HHHL M.2 SSD Kit (878783-B21)
– This option cannot be selected with a 2SFF drive cage.

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

Notes:
– This option cannot be selected along with HPE Universal SATA AIC HHHL M.2 SSD Kit (878783-B21)
– This option cannot be selected with a 2SFF drive cage.

System Insight Display Options

HPE ProLiant DL360 Gen10 Plus SFF System Insight Display Power Module Kit P26447-B21

Notes: Only quantity of one can be supported.

Core Options

HPE Processors

Processor Option Kits

Notes: System might throttle over 30C and it is expected.

AMD EPYC 3rd Generation Processors

AMD EPYC 7763 2.45GHz 64-core 280W Processor for HPE P38696-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a Max Performance Heat Sink Kit (P43104-B21)

AMD EPYC 7713 2.0GHz 64-core 225W Processor for HPE P38693-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7663 2.0GHz 56-core 240W Processor for HPE P38690-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7643 2.3GHz 48-core 225W Processor for HPE P39365-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7543 2.8GHz 32-core 225W Processor for HPE P38687-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7513 2.6GHz 32-core 200W Processor for HPE P38684-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 75F3 2.95GHz 32-core 280W Processor for HPE P38708-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a Max Performance Heat Sink Kit (P43104-B21)

AMD EPYC 7453 2.75GHz 28-core 225W Processor for HPE P38678-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 74F3 3.2GHz 24-core 240W Processor for HPE P38705-B21

Core Options

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7443 2.85GHz 24-core 200W Processor for HPE P38681-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7413 2.65GHz 24-core 180W Processor for HPE P38675-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 73F3 3.5GHz 16-core 240W Processor for HPE P38702-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7343 3.2GHz 16-core 190W Processor for HPE P38672-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7313 3.0GHz 16-core 155W Processor for HPE P38669-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a Standard Fan Kit (P37861-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 72F3 3.7GHz 8-core 180W Processor for HPE P38699-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

DL365 Gen10 Plus also supports AMD EPYC 2nd Generation Processors

AMD EPYC 7702 2.0GHz 64-core 200W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39373-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7502 2.5GHz 32-core 180W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39372-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a High Performance Fan Kit (P26477-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7452 2.35GHz 32-core 155W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39371-B21

Core Options

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a Standard Fan Kit (P37861-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7302 3.0GHz 16-core 155W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39370-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a Standard Fan Kit (P37861-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

AMD EPYC 7262 3.2GHz 8-core 155W Processor Kit for HPE ProLiant DL365 Gen10 Plus P39369-B21

Notes:

- This processor doesn't include a fan kit or a heat sink kit.
- This processor needs selection of a Standard Fan Kit (P37861-B21)
- This processor needs selection of a High Performance Heat Sink Kit (P19368-B21)

HPE Memory

To streamline the configuration process for HPE ProLiant Gen10 Plus servers and to provide the best product availability, Hewlett Packard Enterprise recommends memory from the list located here:

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

Best product availability is limited to US, Canada, and Latin America at this time.

For memory Reliability, Accessibility, Serviceability (RAS) features whitepaper like Gen10 Fast Fault Tolerance and legacy mirrored memory feature etc. please go to: <http://www.hpe.com/docs/memory-ras-feature>

Notes: 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 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07638-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit.	P07640-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07642-B21
HPE 32GB (1x32GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Memory Kit	P38454-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07646-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07650-B21

Load Reduced DIMMs (LRDIMMs)

HPE 128GB (1x128GB) Quad Rank x4 DDR4-3200 CAS-22-22-22 Load Reduced Smart Memory Kit	P07652-B21
HPE 256GB (1x256GB) Octal Rank x4 DDR4-3200 CAS-26-22-22 Load Reduced 3DS Smart Memory Kit	P07654-B21

Core Options

Recommended System Ambient Temperature for 256GB LRDIMM	
System Config	Ambient Temperature
8SFF (all backplane types)	23C
10SFF (all backplane types)	25C

Notes:

- Mixing of x4 & x8 memory is not allowed
- 3200 MT/s memory SKUs can run the transfer rate of 3200 MT/s at both 1 DIMM and 2 DIMM per channel
- 256GB memory SKU can run the transfer rate of 3200 MT/s at 1 DIMM per channel, but only 2933 MT/s at 2 DIMM per channel
- If 256GB LRDIMM is selected then below options cannot be selected:

- o 878783-B21 HPE Universal SATA AIC HHHL M.2 SSD Kit
- o P26463-B21 HPE DL36X G10+ x16/x8 M.2 NS204i-r Riser
- o 100Gb or above (PCIe/OCP) cards from Networking, Infiniband and Pensando DSP (HW)
 - Rome processors can't support 3200 MT/s at 2 DIMM per channel

HPE Boot Controllers

HPE NS204i-p x2 Lanes NVMe PCIe3 x8 OS Boot Device P12965-B21

Notes: This option can only be supported on slot 1 of the primary riser

HPE Storage Controllers

Notes: For additional details, please see HPE Smart Array Gen10 Controllers Data Sheet at:

<https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00017196ENW>

HPE Flexible Smart Array Controllers

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

Notes: If this controller is selected along with any other x16 PCIe Card, then the HPE DL360 Gen10+ SFF Internal Cable Kit (P26449-B21) is required.
Only need to support by field-upgrade. Because CTO chassis already contains the cables.

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

Notes: If this controller is selected along with any other x16 PCIe Card, then the HPE DL360 Gen10+ SFF Internal Cable Kit (P26449-B21) is required.
Only need to support by field-upgrade. Because CTO chassis already contains the cables.

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

Notes: If this controller is selected along with any other x16 PCIe Card, then the HPE DL360 Gen10+ SFF Internal Cable Kit (P26449-B21) is required.
Only need to support by field-upgrade. Because CTO chassis already contains the cables.

HPE Smart Array Controllers

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

Core Options

HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	830824-B21
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Notes: If this controller is selected along with any other x16 PCIe Card, then the HPE DL360 Gen10+ SFF Internal Cable Kit (P26449-B21) is required.

Only need to support by field-upgrade. Because CTO chassis already contains the cables.

HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
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HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804394-B21
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Notes: If this controller is selected along with any other x16 PCIe Card, then the HPE DL360 Gen10+ SFF Internal Cable Kit (P26449-B21) is required.

Tri-mode RAID Controllers

Microchip SmartRAID SR932i-p x32 Lanes 8GB Wide Cache NVMe/SAS 24G Controller for HPE Gen10 Plus	P04220-B21
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Notes: This card should only be supported on a x16 electrical PCIe slot. For PCIe slot information, refer to the "Expansion Slots" section in this document

Microchip SmartRAID SR416i-a x16 Lanes 4GB Cache NVMe/SAS 24G Controller for HPE Gen10 Plus	P12688-B21
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Broadcom MegaRAID MR416i-p x16 Lanes 4GB Cache NVMe/SAS 12G Controller for HPE Gen10 Plus	P06367-B21
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Broadcom MegaRAID MR416i-a x16 Lanes 4GB Cache NVMe/SAS 12G Controller for HPE Gen10 Plus	P26279-B21
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Broadcom MegaRAID MR216i-p x16 Lanes without Cache NVMe/SAS 12G Controller for HPE Gen10 Plus	P26324-B21
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Broadcom MegaRAID MR216i-a x16 Lanes without Cache NVMe/SAS 12G Controller for HPE Gen10 Plus	P26325-B21
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HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21
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HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit	P02377-B21
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Cable Kits

HPE ProLiant DL360 Gen10 Plus SFF Internal Cable Kit	P26449-B21
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Notes: If a non-controller is installed in slot 1, and customer selects the controller for mounting in slot2, then customer must select this cable kit to connect to slot2.

Only need to support by field-upgrade. Because CTO chassis already contains the cables.

HPE ProLiant DL36X Gen10 Plus 8SFF Tri-Mode Cable Kit	P26451-B21
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Notes:

– If SR932i-p controller is selected, this cable kit must be selected.

– If U.3 or U.2 BP Kit & Stand-up type or AROC Tri-mode controller card (Except SR932i-p) controller is selected, then Q'ty one of this kit must be selected.

HPE ProLiant DL36X Gen10 Plus 2SFF Tri-Mode Cable Kit	P36657-B21
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Notes:If U.3 or U.2 BP Kit & AROC type Tri-mode controller card controller are selected, then q'ty one of this kit must be selected.

HPE ProLiant DL36X Gen10 Plus Rear Serial Port Cable Kit	P26475-B21
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HPE DL385 Gen10 Plus OCP Upgrade Cable Kit	P14603-B21
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HPE ProLiant DL365 Gen10 Plus 8SFF SATA Direct Attach Cable Kit	P44886-B21
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Core Options

Notes:

- Maximum supported quantity is one
- When customer selects 8SFF SAS/SATA drive cage for Direct Attach, this cable kit must be selected
- When SR100i SW option is selected to support SATA drive, this cable kit must be selected

HPE Hard Disk Drives

For HDDs with optimal product availability, HPE advocates HDDs from the list located here:

Enterprise - 12G SAS - SFF Drives

HPE 300GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD	P28028-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 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P28586-B21
HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P28352-B21

Midline - 12G SAS - SFF Drives

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

SED (Self-Encryption Drive) Hard Drives

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

Notes:

- Requirements for MR Tri-mode controller SED support

– TPM is not required for Local Key Management as key is stored in controller

– iLO Advanced is required for Remote Key Management. Key is stored in remote key manager (Ex. ESKM)

HPE Solid State Drives

For SSD selection guidance, please visit <https://ssd.hpe.com/>

For SSDs with optimal product availability, HPE advocates SSDs from the list located here:

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

HPE 960GB SAS 24G Read Intensive SFF BC PM6 SSD	P40470-B21
HPE 960GB SAS 12G Read Intensive SFF BC PM1643a SSD	P40556-B21
HPE 960GB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40506-B21
HPE 960GB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49029-B21
HPE 1.92TB SAS 24G Read Intensive SFF BC PM6 SSD	P40471-B21
HPE 1.92TB SAS 12G Read Intensive SFF BC PM1643a SSD	P40557-B21
HPE 1.92TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40507-B21
HPE 1.92TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49031-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC PM6 SSD	P40472-B21

Core Options

HPE 3.84TB SAS 12G Read Intensive SFF BC PM1643a SSD	P40558-B21
HPE 3.84TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40508-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49035-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC PM6 SSD	P40473-B21
HPE 7.68TB SAS 12G Read Intensive SFF BC PM1643a SSD	P40559-B21
HPE 7.68TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40509-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49041-B21
HPE 15.3TB SAS 24G Read Intensive SFF BC PM6 SSD	P40474-B21
HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-B21

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

HPE 800GB SAS 24G Mixed Use SFF BC PM6 SSD	P40475-B21
HPE 800GB SAS 12G Mixed Use SFF BC PM1645a SSD	P40560-B21
HPE 800GB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49047-B21
HPE 960GB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40510-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC PM6 SSD	P40476-B21
HPE 1.6TB SAS 12G Mixed Use SFF BC PM1645a SSD	P40561-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-B21
HPE 1.92TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40511-B21
HPE 3.2TB SAS 24G Mixed Use SFF BC PM6 SSD	P40478-B21
HPE 3.2TB SAS 12G Mixed Use SFF BC PM1645a SSD	P40562-B21
HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49053-B21
HPE 3.84TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40512-B21
HPE 6.4TB SAS 24G Mixed Use SFF BC PM6 SSD	P40479-B21
HPE 6.4TB SAS 12G Mixed Use SFF BC PM1645a SSD	P40563-B21
HPE 6.4TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49057-B21

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

HPE 400GB SAS 24G Write Intensive SFF BC PM6 SSD	P40480-B21
HPE 800GB SAS 24G Write Intensive SFF BC PM6 SSD	P40481-B21
HPE 1.6TB SAS 24G Write Intensive SFF BC PM6 SSD	P40482-B21

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

HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-B21
HPE 480GB SATA 6G Mixed Use SFF BC S4610 SSD	P40545-B21
HPE 480GB SATA 6G Mixed Use SFF BC S4620 SSD	P47324-B21
HPE 480GB SATA 6G Mixed Use SFF BC PM897 SSD	P44011-B21
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-B21
HPE 960GB SATA 6G Mixed Use SFF BC PM897 SSD	P44012-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 1.92TB SATA 6G Mixed Use SFF BC PM897 SSD	P44013-B21
HPE 3.84TB SATA 6G Mixed Use SFF BC S4610 SSD	P40546-B21
HPE 3.84TB SATA 6G Mixed Use SFF BC S4620 SSD	P47327-B21

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

HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-B21
HPE 240GB SATA 6G Read Intensive M.2 Multi Vendor SSD	P47817-B21
HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21
HPE 480GB SATA 6G Read Intensive M.2 Multi Vendor SSD	P47818-B21
HPE 480GB SATA 6G Read Intensive SFF BC PM893 SSD	P44007-B21

Core Options

HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-B21
HPE 960GB SATA 6G Read Intensive SFF BC PM893 SSD	P44008-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC S4510 SSD	P40543-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC S4520 SSD	P47320-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC PM893 SSD	P44009-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC S4510 SSD	P40544-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC S4520 SSD	P47322-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC PM893 SSD	P44010-B21
HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-B21

VRO - 6G SATA - SFF - Solid State Drives

HPE 1.92TB SATA 6G Very Read Optimized SFF BC 5210 SSD	P40554-B21
HPE 7.68TB SATA 6G Very Read Optimized SFF BC 5210 SSD	P40555-B21

Notes: PM6 SSDs can operate at SAS 24G speed with SR series Tri-mode controllers installed

Read Intensive - NVMe M.2 - Solid State Drives (Exclusively used on NS204i-R Riser (P26463-B21))

HPE 480GB NVMe Gen3 Mainstream Performance Read Intensive M.2 Multi Vendor SSD	P40513-B21
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Notes:

- If this option is selected then M.2 Riser Kit (P26463-B21- HPE DL36x G10+ x16/x8/M.2 NS204i-r Riser) must be selected
- This is the only NVMe M.2 option which can be supported in the NS204i-R Riser (P26463-B21)
- This option requires the selection of a High Performance Fan Kit (P26477-B21)

Write Intensive - NVMe - SFF - Solid State Drives

HPE 375GB NVMe Gen3 High Performance Low Latency Write Intensive SFF BC U.2 P4800X SSD	P40552-B21
HPE 750GB NVMe Gen3 High Performance Low Latency Write Intensive SFF BC U.2 P4800X SSD	P40553-B21

Read Intensive - NVMe - SFF - Solid State Drives

HPE 960GB NVMe Gen3 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47844-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733 SSD	P40565-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM6 SSD	P40490-B21
HPE 1.92TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 CD6 SSD	P40483-B21
HPE 1.92TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 PE8010 SSD	P31185-B21
HPE 1.9TB NVMe Gen3 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47845-B21
HPE 2TB NVMe Gen3 High Performance Read Intensive SFF BC U.2 P4510 SSD	P40547-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733 SSD	P40566-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM6 SSD	P40491-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 CD6 SSD	P40484-B21
HPE 3.84TB NVMe Gen3 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47846-B21
HPE 4TB NVMe Gen3 High Performance Read Intensive SFF BC U.2 P4510 SSD	P40548-B21

Core Options

HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 CD6 SSD	P40485-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733 SSD	P40567-B21
HPE 7.68TB NVMe Gen3 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47847-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733 SSD	P40568-B21

Mixed Use - NVMe - SFF - Solid State Drives

HPE 800GB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735 SSD	P40569-B21
HPE 800GB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM6 SSD	P40492-B21
HPE 800GB NVMe Gen3 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47837-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735 SSD	P40570-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM6 SSD	P40493-B21
HPE 1.6TB NVMe Gen3 High Performance Mixed Use SFF BC U.2 P4610 SSD	P40549-B21
HPE 1.6TB NVMe Gen3 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47838-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735 SSD	P40571-B21
HPE 3.2TB NVMe Gen3 High Performance Mixed Use SFF BC U.2 P4610 SSD	P40550-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM6 SSD	P40494-B21
HPE 3.2TB NVMe Gen3 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47839-B21
HPE 6.4TB NVMe Gen3 High Performance Mixed Use SFF BC U.2 P4610 SSD	P40551-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735 SSD	P40572-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM6 SSD	P40495-B21
HPE 6.4TB NVMe Gen3 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47840-B21

Notes:

- PE8010 and PE8030 NVMe drives cannot be supported with SR932i-a or SR416i-p tri-mode controllers
- SR100i SW RAID can only be supported with PM1733 and PM1735 U.3 NVMe drives.
- When SR100i SW RAID is supported on these two drives, the drives can only be installed in an U.3 backplane kit, cannot be supported in an U.2 backplane kit.

SED (Self-Encryption Drive) Solid State Drives

HPE 480GB SATA 6G Read Intensive SFF BC Self-encrypting 5300P SSD	P42120-B21
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5300M SSD	P42128-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Self-encrypting 5300M SSD	P42132-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Self-encrypting 5300P SSD	P42124-B21
HPE 800GB SAS 24G Mixed Use SFF BC Self-encrypting FIPS PM6 SSD	P41400-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Self-encrypting FIPS PM6 SSD	P41401-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC Self-encrypting FIPS PM6 SSD	P41398-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Self-encrypting FIPS PM6 SSD	P41399-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41404-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41405-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41402-B21

Core Options

HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC Self-encrypting FIPS
U.3 CM6 SSD

P41403-B21

Notes:

– Requirements for Direct Attach SED support

- ? TPM2.0 is required for Local Key Management. Keys will be locally encrypted and stored by TPM
- ? iLO Advanced is required for Remote Key Management. Key is stored in remote key manager (Ex. ESKM)
– Requirements for MR Tri-mode controller SED support
- ? TPM is not required for Local Key Management as key is stored in controller
- ? iLO Advanced is required for Remote Key Management. Key is stored in remote key manager (Ex. ESKM)

Internal Dual M.2 Kit

HPE Universal SATA 6G AIC HHHL M.2 SSD Enablement Kit

878783-B21

Read Intensive - M.2 - Solid State Drives

HPE 240GB SATA 6G Read Intensive M.2 2280 5300B SSD	P19888-B21
HPE 240GB SATA 6G Read Intensive M.2 Multi Vendor SSD	P47817-B21
HPE 480GB SATA 6G Read Intensive M.2 2280 5300P SSD	P19890-B21
HPE 480GB SATA 6G Read Intensive M.2 Multi Vendor SSD	P47818-B21
HPE 960GB SATA 6G Read Intensive M.2 2280 5300P SSD	P19892-B21

Hard Drive Blank Kits

HPE Small Form Factor Hard Drive Blank Kit

666987-B21

Notes: Hard drive blanks should be applied to drive slots with no drives populated

HPE Smart IO

Requirements:

- One 3yr/4yr/5yr Silver or 3yr/4yr/5yr Platinum license must be purchased for every DSC-25 card in a server.
- 1yr Silver, 1yr Platinum, and 1yr Policy and Services Manager (PSM) licenses are reserved for renewals only.
- One Policy and Services Manager (PSM) license is required to manage up to 3,000 DSC-25 cards.

Pensando Distributed Services Card (DSC)

Pensando Distributed Services Platform DSC-25 Enterprise 10/25Gb 2-port SFP28 Card

P26966-B21

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

Pensando DSP Silver Software Licenses

Pensando Distributed Services Platform Enterprise 1-year Renewal Subscription 24x7 Support E-RTU	R6A06AAE
Pensando Distributed Services Platform Enterprise 3-year Subscription 24x7 Support E-RTU	R6A07AAE
Pensando Distributed Services Platform Enterprise 4-year Subscription 24x7 Support E-RTU	R6F68AAE
Pensando Distributed Services Platform Enterprise 5-year Subscription 24x7 Support E-RTU	R6A08AAE

Core Options

Pensando DSP Platinum Software Licenses

Pensando Distributed Services Platform Enterprise Pro 1-year Renewal Subscription 24x7 Support E-RTU	R6A09AAE
Pensando Distributed Services Platform Enterprise Pro 3-year Subscription 24x7 Support E-RTU	R6A10AAE
Pensando Distributed Services Platform Enterprise Pro 4-year Subscription 24x7 Support E-RTU	R6F69AAE
Pensando Distributed Services Platform Enterprise Pro 5-year Subscription 24x7 Support E-RTU	R6A11AAE

HPE Networking**1 Gigabit Ethernet adapters**

Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P21106-B21
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10 Gigabit Ethernet adapters

Marvell QL41132HLRJ Ethernet 10Gb 2-port BASE-T Adapter for HPE	P08437-B21
Marvell QL41132HLCU Ethernet 10Gb 2-port SFP+ Adapter for HPE	P21933-B21
Marvell QL41134HLCU Ethernet 10Gb 4-port SFP+ Adapter for HPE	P10094-B21
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
Intel X710-DA2 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P28787-B21

10/25 Gigabit Ethernet adapters

Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P13188-B21
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21
Xilinx X2522-25G-PLUS Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P21109-B21
Xilinx X2522-25G Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P24437-B21
Marvell QL41232HLCU Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P22702-B21
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21

100/200 Gigabit Ethernet adapters

HPE NV60100M 100Gb 2-port Storage Offload Adapter	R8M41A
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	P21112-B21
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter	P31246-B21
Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	P25960-B21
Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	P10180-B21

Notes:

- A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
- 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>
- Ambient temperature for above four 100/200 GbE cards (P21112-B21, P31246-B21, P25960-B21, P10180-B21) is 23C under configuration of 8SFF, SAS/SATA/NVMe/SAS4, 280W processor, 128GB DIMM
- Ambient temperature for above four 100/200 GbE cards (P21112-B21, P31246-B21, P25960-B21, P10180-B21) is 25C under configuration of 10SFF, SAS/SATA/NVMe/SAS4, =240W processor, 128GB DIMM
- When supported with AOC (Active Optical Cables), ambient temperatures noted above will drop by 3 degrees C
- The AOC cables are:

? P28169-B21 HPE IB HDR 200Gb QSFP56 3m AOC

Core Options

- ? P28169-B22 HPE IB HDR 200Gb QSFP56 5m AOC
- ? P28169-B23 HPE IB HDR 200Gb QSFP56 10m AOC
- ? P28169-B24 HPE IB HDR 200Gb QSFP56 15m AOC
- ? P28169-B25 HPE IB HDR 200Gb QSFP56 20m AOC
- ? P28169-B26 HPE IB HDR 200Gb QSFP56 30m AOC

OCP Adapters

Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21
Marvell QL41132HQCUI Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P08452-B21
Marvell QL41132HQRJ Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10103-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P26256-B21
Intel X710-DA2 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P28778-B21
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21
Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10112-B21

Notes: Current Mellanox OCP NIC MCX562A does not support multi-host configuration as two x8, so please make sure to use cable P14318-001 to connect to CPU1 to upgrade and configure to one x16 OCP NIC."

Marvell QL41232HQCUI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10118-B21
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Notes:

- OCP adapters do not consume PCIe slot.
- Only 1 slot is available for OCP adapters.
- Only SFF OCP adapters below 35W can be supported

Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	P22767-B21

Notes: For 100Gb/200Gb stand-up and OCP cards, high performance fan kits need to be supported. Ambient temperature needs to be restricted under 25C.

HPE InfiniBand

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 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 OCP3 MCX653435A-HDAI Adapter	P31323-B21
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	P31348-B21

Notes:

- For 100Gb/200Gb InfiniBand cards, high performance fan kits need to be supported. Ambient temperature needs to be restricted under 25C.
- For additional InfiniBand information: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440>

Core Options

- System ambient temperature for all of the above InfiniBand cards is 23C under configuration of 8SFF, SAS/SATA/NVMe/SAS4, 280W processor, 128GB DIMM
- System ambient temperature for all of the above InfiniBand cards is 25C under configuration of 10SFF, SAS/SATA/NVMe/SAS4, =240W processor, 128GB DIMM
- When supported with AOC (Active Optical Cables), ambient temperatures noted above will drop by 3 degrees C
- The AOC cables are:

- ? P28169-B21 HPE IB HDR 200Gb QSFP56 3m AOC
- ? P28169-B22 HPE IB HDR 200Gb QSFP56 5m AOC
- ? P28169-B23 HPE IB HDR 200Gb QSFP56 10m AOC
- ? P28169-B24 HPE IB HDR 200Gb QSFP56 15m AOC
- ? P28169-B25 HPE IB HDR 200Gb QSFP56 20m AOC
- ? P28169-B26 HPE IB HDR 200Gb QSFP56 30m AOC

HPE Graphics Options

HPE Computation and Graphics Accelerator								
Part Number	Card	Form Factor	QTY Per Server	Drive Type	Processor Supported	DIMM	PCIe/OCF Support	Ambient Temperature
R0W29C	HPE NVIDIA Tesla T4 16GB Computational Accelerator	SW	2	8SFF NVMe/ SATA/ SAS/SAS4	280W	256 GB	10Gb/25Gb/AIC card only	23C
					280W	128 GB	10Gb/25Gb/AIC card /SATA M.2 Enablement Kit/ NS204i-p/ NS204i-r RIser/ >100Gb PCIe cards/ >100Gb OCP cards	23C
					280W	256 GB	10Gb/25Gb/AIC card only	25C
					=240W	128 GB	10Gb/25Gb/AIC card /SATA M.2 Enablement Kit/ NS204i-p/ NS204i-r RIser/ >100Gb PCIe cards/ >100Gb OCP cards	25C
				10SFF NVMe/ SATA/ SAS/SAS4	=240W	256 GB	10Gb/25Gb/AIC card only	25C
					=240W	128 GB	10Gb/25Gb/AIC card only	30C

Core Options

				10SFF SAS/ SATA	=180W	128 GB	10Gb/25Gb/AIC card only	Not Supported
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NVIDIA T4 16GB Computational Accelerator for HPE

R0W29C

Notes:

- Requires selection of the High Performance Fan Kit (P26477-B21).
- See table above for ambient temperature limitations based on processor selection
- When second quantity is selected, P26467-B21 - HPE ProLiant DL36X Gen10 Plus Full Height Riser Kit must be selected, and will occupy Slot 1 and Slot 3.
- Max quantity of two allowed when the secondary Full height riser is selected. P26471-B21 - HPE ProLiant DL36X Gen10 Plus Low Profile Riser Kit not supported with this T4 GPU.
- This x16 GPU can only installed in x16 electrical slot

HPE Power Supplies

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

865408-B21

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

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

865438-B21

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

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

P38995-B21

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

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

865434-B21

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

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

865428-B21

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

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

HPE 1600W -48VDC Power Cable Lug Kit

P36877-B21

Notes:

- P36877-B21 is to be used with HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit
- Only one power cable lug kit needs to be selected with the power supply

Notes:

- Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.
- 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).
- 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>.
- All power supplies in a server should match. Mixing Power Supplies is not supported.
- Option kits contain the specified power supply and a PDU IEC cable.
- 1600W power supplies only support high line voltage.
- HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). Visit **HPE power cords** for a full list of optional HPE power cords.

Core Options

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 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced 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 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 Common Password Setting

HPE iLO Common Password FIO Setting	P08040-B21
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Notes:

- Replaces iLO default randomized password by an HPE defined common password. HPE highly recommends changing this password immediately after the initial onboarding process.
- Customers who want to choose their own custom iLO default password should use the HPE Factory Express Integration Services

HPE Converged Infrastructure Management Software

HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU	K6F98AAE
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Track 1-server LTU	E5Y36A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView Upgrade from Insight Management 3yr 24x7 Support 1-server LTU	F6Q91A
HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support Bundle Track 1-server LTU	E5Y44A
HPE OneView Upgrade from Insight Management including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y45AAE
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE

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

Additional Options

HPE PCIe Workload Accelerator Options

HPE 3.2TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHL PM1735 SSD	P26936-B21
HPE 1.6TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHL PM1735 SSD	P26934-B21
HPE 750GB NVMe Gen3 x4 High Performance Low Latency Write Intensive AIC HHHL P4800X SSD	878038-B21
HPE 1.6TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHL PM1735 SSD	P26934-B21
HPE 3.2TB NVMe Gen4 x8 High Performance Mixed Use AIC HHHL PM1735 SSD	P26936-B21

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

HPE Security

HPE 1U Gen10 Bezel Kit	867998-B21
HPE Bezel Lock Kit	875519-B21
HPE Gen10 Plus Chassis Intrusion Detection Kit	P14604-B21

Notes: This provides a physical connection from the chassis board and hood and detects any physical intrusion into the chassis, providing security during the entire supply chain process of shipping, receiving, distribution, and operation.

HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	P13771-B21
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Notes: Max q'ty =1

HPE Gen10 TPM 1.2 FIO Setting	872108-B21
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Notes:

- This option requires the selection of TPM BR Module Kit (P13771-B21)
- If TPM BR Module Kit (P13771-B21) is selected along with Legacy BIOS Mode (758959-B22) then this option must be selected.

HPE Server Platform LDevID FIO Setting	P49803-B21
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Notes:

- Directs HPE manufacturing site to create, digitally sign and store a platform certificate on the server.
- Requires HPE Trusted Platform Module (TPM).
- Locally Significant Device Identifier (LDevID) certificates are part of a Zero Trust Architecture. This SKU instructs factory to provision LDevID on HPE iLO.

HPE Server Identity LDevID FIO Setting	P49814-B21
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Notes: Locally Significant Device Identifier (LDevID) certificates are part of a Zero Trust Architecture. This SKU instructs factory to provision LDevID on HPE iLO.

HPE Storage Options**Emulex Fibre Channel HBAs**

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	Q0L13A
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	Q0L14A
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	Q0L12A
HPE SN1700E 64Gb 1-port Fibre Channel Host Bus Adapter	R7N77A
HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter	R7N78A

Additional Options

QLogic Fibre Channel HBAs

HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	R2E08A
HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	R2E09A
HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	R2J62A
HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	R2J63A

HPE Rack Options

Rail Kits

HPE ProLiant DL300 Gen10 Plus 1U SFF Easy Install Rail Kit	P26485-B21
HPE ProLiant DL300 Gen10 Plus 1U Cable Management Arm for Rail Kit	P26489-B21

Notes:

- Can only be selected only if the rail kit is selected.
- HPE rail kits contain telescoping rails which allow for in-rack serviceability.
- Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations.
Please refer to your installation instructions for proper tools and number of people to use for any installation.

HPE 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.

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

Additional Options

products and their specifications.

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HPE 32GB microSD RAID 1 USB Boot Drive P21868-B211

Notes: In vSphere 7.0, VMware made changes that impact the use of an SD Card/USB media as a standalone boot device and will be removing support for them after version 7.x. SD Card/USB media can still be used as a standalone boot option through all 7.x releases via published Customer Advisory [Usage of SD Card/USB Devices As Standalone Boot Devices Has Changed Due to System Storage Changes For VMware ESXi 7.0 \(Or Later\)](#).

For any major release beyond VMware ESXi 7.x, VMware will require M.2 or another local persistent device as the standalone boot option.

HPE Support Services

Installation & Start-up Services

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

Tech Care

HPE 3 Year Tech Care Essential ProLiant DL365 Gen10 Plus Service HY5P9E
HPE 3 Year Tech Care Essential wDMR ProLiant DL365 Gen10 Plus Service HY5Q0E
HPE 5 Year Tech Care Essential ProLiant DL365 Gen10 Plus Service HY5S3E
HPE 5 Year Tech Care Essential wDMR ProLiant DL365 Gen10 Plus Service HY5S4E

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

Technical Specifications

System Unit

• Dimensions (Height x Width x Depth)

4.28 X 43.46 X 74.19 cm
1.69 X 17.11 X 29.21 in

• Weight (approximate)

13.39kg
29.51 lb

- **SFF Minimum:** 8 SFF chassis with 8 HDD blanks, 2x Drive Bay blanks, 1x processor including standard heat sink, 2x DIMMs, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above
 - o 13.39kg
 - o 29.51 lb
- **SFF Maximum:** 10x SFF hard drives, 2x processors, 2 heat sinks, 2x power supplies, 1x Smart Array, 2x Risers installed, 16x DIMMs, 2x power supply, cables for the above
 - o 18.21kg
 - o 40.14 lb

Input Requirements(per power supply)

Rated Line Voltage

- 100 to 120 VAC
- 200 to 240 VAC

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
- For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only

Power Supply Output(per power supply)

• Rated Steady-State Power

- For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VAC)
- For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only
- For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only

Technical Specifications

- **Maximum Peak Power**

- For 1600W Power Supply: 1600W (at 200 to 240 1VAC), 1600W (at 240 VAC) input for China only
 - For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only
 - For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only
-

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 10°C/hr (18°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).

Relative Humidity(non-condensing)

- **Operating**

10% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.

- **Non-operating**

Technical Specifications

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

Altitude

- **Operating**

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

- **Non-operating**

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

Emissions Classification (EMC) - Regulatory Information

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

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

HPE Smart Array

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

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.

Acoustic Noise

Listed are the declared A-Weighted sound power levels ($L_{WA,d}$) and declared average bystander position A-Weighted sound pressure levels ($L_{pA,m}$) 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.

Technical Specifications

Idle	
LWAd	5.4 B Entry 5.7 B Base 5.7 B Perf
LpAm	38 dBA Entry 41 dBA Base 41 dBA Perf
Operating	
LWAd	5.4 B Entry 5.7 B Base 5.7 B Perf
LpAm	38 dBA Entry 41 dBA Base 41 dBA Perf

Notes:

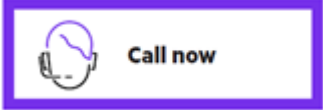
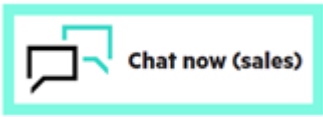
- Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only.
- Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.
- The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

Summary of Changes

Date	Version History	Action	Description of Change
02-May-2022	Version 11	Changed	Core Options section was updated. Obsolete SKUs were removed.
04-Apr-2022	Version 10	Changed	Standard Features section was updated.
21-March-2022	Version 9	Changed	Standard Features and Configuration Information sections were updated. Obsolete SKU was removed.
06-Dec-2021	Version 8	Changed	Standard Features, Core Options and Additional Options sections were updated.
01-Nov-2021	Version 7	Changed	Standard Features, Core Options and Additional Options sections were updated.
07-Sep-2021	Version 6	Changed	Standard Features and Core Options sections were updated.
02-Aug-2021	Version 5	Changed	Standard Features, Configuration Information and Core Options sections were updated.
06-Jul-2021	Version 4	Changed	Standard Features, Configuration Information and Core Options sections were updated. Obsolete SKUs were removed.
07-Jun-2021	Version 3	Changed	Standard Features, Configuration Information, Technical Specifications and Core Options sections were updated.
10-May-2021	Version 2	Changed	Standard Features, Configuration Information and Core Options sections were updated.
19-Apr-2021	Version 1	New	New QuickSpecs

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