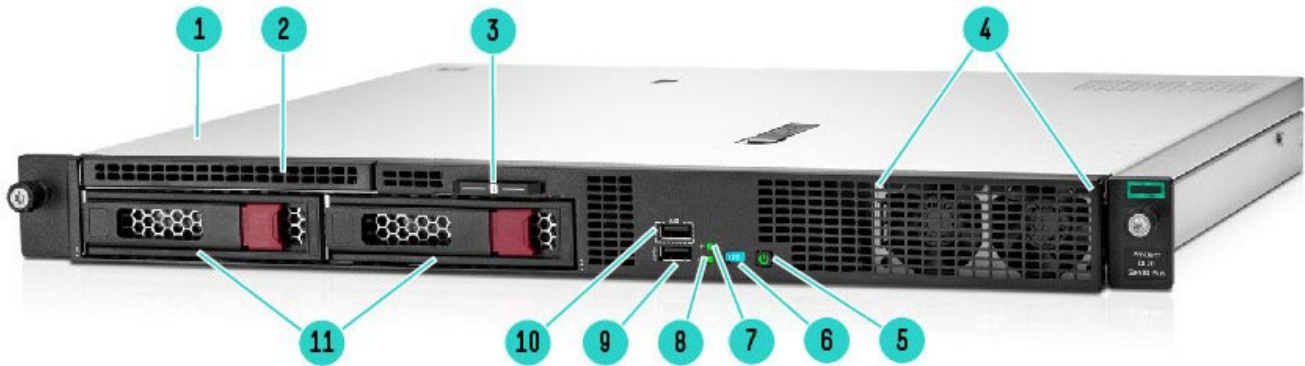


Overview

HPE ProLiant DL20 Gen10 Plus server

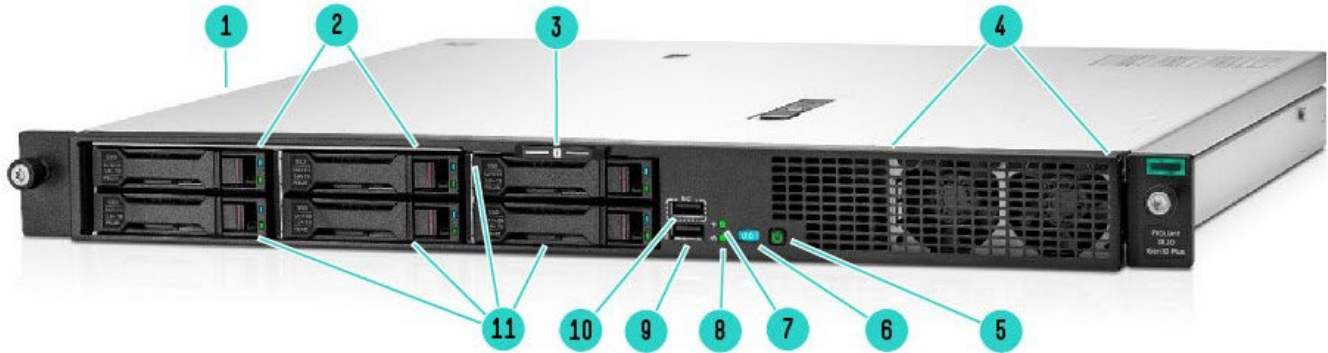
The dense and compact HPE ProLiant DL20 Gen10 Plus server powered by Intel® Xeon® E and Pentium® Processors provides a unique blend of enterprise class capabilities & value. It offers outstanding configuration flexibility to cater to a wide variety of business requirements at an affordable price point. Deploy this dense platform for diverse workloads in space constrained environments and maintain it with ease by automating the most essential server lifecycle management tasks with HPE iLO 5.



2 LFF Front View Gen10 Plus

- | | | | |
|----|--|-----|---------------------------------|
| 1. | Access Panel | 7. | Health LED |
| 2. | Optical drive bay | 8. | NIC Status LED |
| 3. | Serial number/iLO information pull tab | 9. | USB 3.2 Gen1 Port |
| 4. | Front Fan Assembly | 10. | iLO Service Port (USB) |
| 5. | System Power LED | 11. | Two-bay LFF hot-plug drive bays |
| 6. | UID LED | | |

Overview

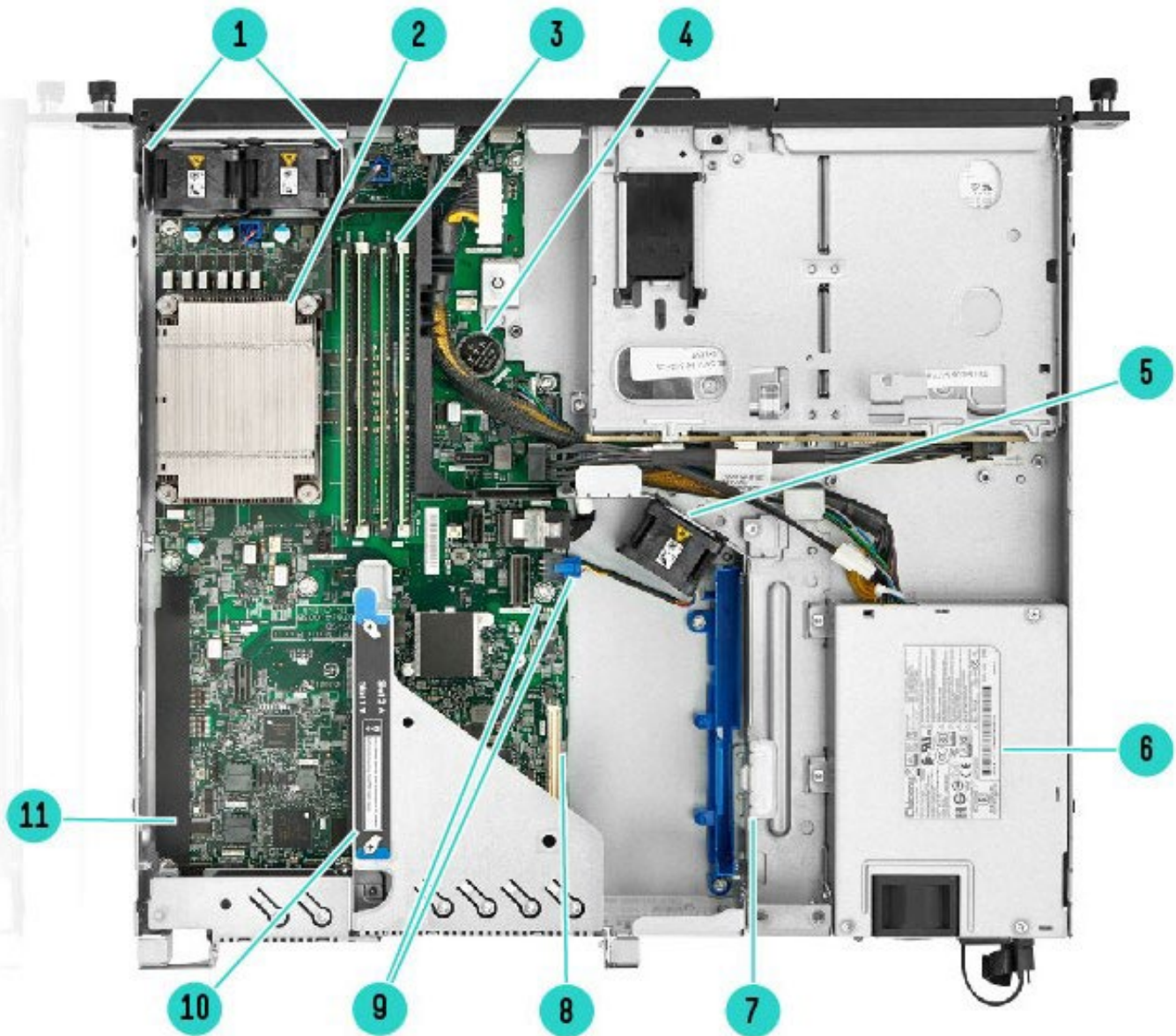


4 (+2) SFF Front View Gen10 Plus

- | | | | |
|----|--|-----|----------------------------------|
| 1. | Access Panel | 7. | Health LED |
| 2. | 2 SFF hot-plug drive bays (optional) | 8. | NIC Status LED |
| 3. | Serial number/iLO information pull tab | 9. | USB 3.2 Gen1 Port |
| 4. | Front Fan Assembly | 10. | iLO Service Port (USB) |
| 5. | System Power LED | 11. | Four-bay SFF hot-plug drive bays |
| 6. | UID LED | | |



Overview

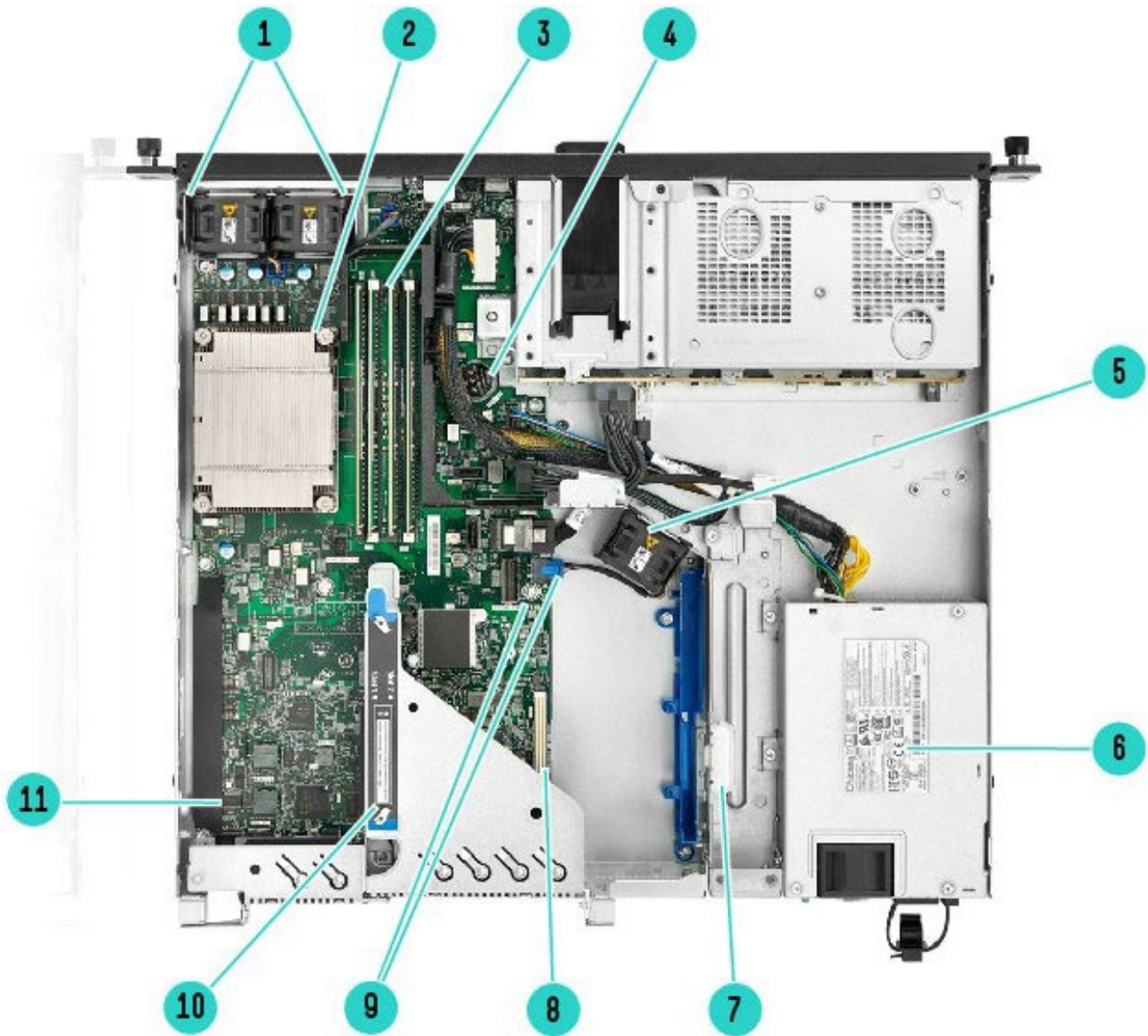


Internal View - Standard for all 2LFF DL20 Gen10 Plus

- | | | | |
|----|--|-----|--|
| 1. | Fan cage shown with 2 fans | 7. | Not shown: Optional Smart Storage Battery |
| 2. | Processor shown with heat sink | 8. | Modular Smart Array connector |
| 3. | Four DDR4 DIMM Slots | 9. | TPM 2.0 Gen10 |
| 4. | System Battery | 10. | PCIe Riser |
| 5. | Central fan assembly (3 rd fan) | 11. | Not shown: Dedicated iLO/M.2 LP Enablement Kit |
| 6. | Power Supply (1x290W shown) | | |



Overview

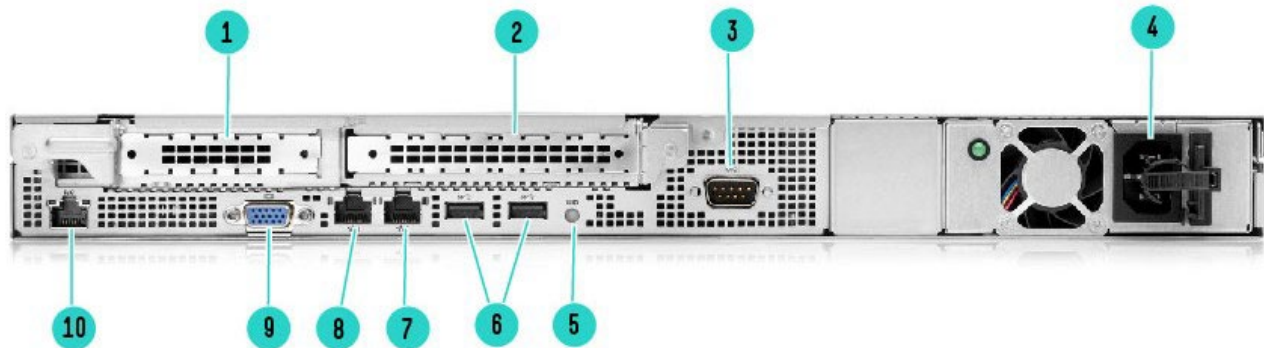


Internal View - Standard for all 4SFF DL20 Gen10 Plus

- | | |
|---|--|
| 1. Fan cage shown with 2 fans | 7. Not shown: Optional Smart Storage Battery |
| 2. Processor shown with heat sink | 8. Modular Smart Array connector |
| 3. Four DDR4 DIMM Slots | 9. TPM 2.0 Gen10 |
| 4. System Battery | 10. PCIe Riser |
| 5. Central fan assembly (3 rd fan) | 11. Not shown: Dedicated iLO/M.2 LP Enablement Kit |
| 6. Power Supply (1x290W shown) | |



Overview



Rear View – Standard for all DL20 Gen10 Plus

- | | | | |
|----|--------------------------------|-----|--|
| 1. | Slot 1 PCIe 4.0 | 6. | Two USB 3.2 Gen1 Ports |
| 2. | Slot 2 PCIe 4.0 | 7. | NIC Port (1Gb) |
| 3. | Option: Serial Port | 8. | NIC port (1Gb) / Sideband iLO management port (configurable in RBSU) |
| 4. | 290W Non hot plug Power Supply | 9. | VGA port |
| 5. | UID LED | 10. | Dedicated iLO Management Port (Default) |

What's New

- Supports latest Intel® Xeon® E-2300 and Pentium® processors up to 8 cores and 3200MT/s UDIMM with support for Intel® Software Guard Extensions. Intel® SGX is an architecture extension designed to increase the security of application code and data.
- Dedicated iLO Management Port & serial port option kit for faster and more secure data transmission
- 3200 MT/s HPE DDR4 Standard Memory UDIMM offering 8GB, 16GB, and 32GB. Max 128GB memory capacity.
- Support for onboard M.2 NVMe/SATA SSD.

Platform Information

Form Factor

- 1U rack

Chassis Types

- 4 SFF with options supporting: +2 SFF
- 2 LFF Hot Plug
- 2 LFF Non-Hot Plug

System Fans

- Includes 3 performance single rotor non-hot plug and non-redundant fans

Notes: This applies for all three chassis: 2LFF NHP, 2LFF HP and 4SFF HP



Standard Features

Processors

Intel® Xeon® E Processors are designed to deliver the best combination of performance, built-in capabilities, and cost-effectiveness. Choose one of the following processors based on the model.

Notes:

- For more information regarding Intel Xeon processors, please see the following <http://www.intel.com/xeon>
- This table covers the public offering only.
- Models indicated by “G” are limited to local display. Intel processor graphic full features are not supported on Intel Xeon E-2300 server platforms.

Intel Xeon E-2300 Family						
Intel Models	CPU Base Frequency	Cores	L3 Cache	Power	DDR4	Intel® SGX
Xeon E-2388G	3.2 GHz	8	16 MB	95W	3200 MT/s	Yes
Xeon E-2378G	2.8 GHz	8	16 MB	80W	3200 MT/s	Yes
Xeon E-2378	2.6 GHz	8	16 MB	65W	3200 MT/s	Yes
Xeon E-2386G	3.5 GHz	6	12 MB	95W	3200 MT/s	Yes
Xeon E-2356G	3.2 GHz	6	12 MB	80W	3200 MT/s	Yes
Xeon E-2336	2.9 GHz	6	12 MB	65W	3200 MT/s	Yes
Xeon E-2374G	3.7 GHz	4	8 MB	80W	3200 MT/s	Yes
Xeon E-2334	3.4 GHz	4	8 MB	65W	3200 MT/s	Yes
Xeon E-2324G	3.1 GHz	4	8 MB	65W	3200 MT/s	Yes
Xeon E-2314	2.8 GHz	4	8 MB	65W	3200 MT/s	Yes
Pentium G6405	4.1 GHz	2	4 MB	58W	2666 MT/s	No

Chipset

Intel® C256 Chipset

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

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

On System Management Chipset

HPE iLO 5 ASIC

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

Memory

- **Type**
HPE DDR4 Unbuffered Memory (UDIMM)
- **DIMM Slots Available**
4 (4 DIMM slots per processor, 2 channels per processor, 2 DIMMs per channel)
- **Maximum capacity (UDIMM)**
128 GB (4 x 32GB UDIMM @ 2933 MT/s)

Notes:

- The maximum memory speed depends on processor model.
- For Server Memory Population Rules for HPE ProLiant Gen10 Plus Servers with Intel® Xeon® E-2300 Processors see details here: <http://www.hpe.com/docs/server-memory>. For General Server Memory and DIMM Population Rules and Guidelines for Gen10 Plus see details here: <http://www.hpe.com/docs/memory-population-rules>.

Memory Protection

- ECC



Standard Features

Internal Storage Devices

Optical Drive

- Available on 4 SFF and 2 LFF CTO Servers as an option (DVD-ROM or DVD-RW)

Hard Drives

- None ship standard

Network Controller

Embedded Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T Adapter

The HPE ProLiant DL20 Gen10 Plus server offers the customer a dual-port NIC standard with the option to upgrade with a variety of networking options.

Notes:

- Support document and downloads including firmware and drivers for the Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter can be downloaded from the [supplier's support and services webpage](#).
- ProLiant DL20 Gen10 Plus system does not support Networking SR-IOV.

Expansion Slots

Primary FIO LP Riser					
Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Form Factor
1	PCIe 4.0	X8	X8	CPU1	Low profile
2	PCIe 4.0	X8	X16	CPU1	Full height half length

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

Storage Controllers

For a more detailed breakout of the available Smart Array controllers visit the [HPE Smart Array Gen10 Controllers Data Sheet](#)

Software RAID

Intel VROC SATA SW RAID

Notes:

- The embedded Intel Virtual RAID on CPU (Intel VROC) is the SATA software RAID controller supported in this server.
- All models feature an embedded storage controller Intel VROC SATA.
- BIOS Default is SATA AHCI. Embedded Intel SATA VROC is disabled by default. Embedded Intel SATA VROC can be enabled in BIOS/Platform Configuration (RBSU) for SW RAID features.
- For Linux users, HPE offers a solution that uses in-distro open-source software to create a two-disk RAID 1 boot volume. For more information visit: <https://downloads.linux.hpe.com/SDR/project/lrrb/>
- RAID support – 0/1/5/10.
- RAID setting cannot be factory ordered/configured for use with Intel VROC SATA as Intel VROC SATA must be enabled in BIOS by customer.
- Intel VROC SATA does not support RAID volume creation with different form factors of drives (e.g., SFF + M.2)
- Intel VROC SATA RAID supports Windows Server and Linux but does not support VMware.
- Intel VROC SATA will operate in UEFI mode, Windows OS environment, and Linux OS environment.
- Required to install AMS tools in OS for supporting drives thermal sensor reading for thermal fan control, otherwise may experience acoustic noise impact.
- Both Intel® Xeon® E processors and Intel® Pentium® processors support Intel® VROC SATA Raid.
- See HPE Support Center for additional information regarding installation of Intel® VROC (SATA RAID): Enabling Intel VROC (SATA RAID) for SATA or sSATA on BIOS/Platform configuration (RBSU)
 - [Windows Edition](#)
 - [VMWare Edition](#)
 - [Linux Edition](#)
- Intel VROC SATA RAID cannot be created in Intelligent Provisioning. It must be installed manually.



Standard Features

- Intel VROC requires the server boot mode to be set to UEFI Mode.
- Obtain the Intel VROC downloads (drivers, GUI) specific for your system OS. For direct download links, see the OS-specific VROC guide: <https://www.hpe.com/support/IntelVROC-Gen10Plus-docs>
- Intel VROC supports RAID management through the following tools:
 - o Non-OS specific: UEFI System Utilities
 - o Windows: Intel VROC GUI, Intel VROC CLI.
 - o Linux: mdadm CLI

Essential RAID Controllers

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

Performance RAID Controllers

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

Notes: For additional details, please see [HPE Smart Array Gen10 Controllers Data Sheet](#).

Maximum Storage

Drive	Capacity	Configuration
Non-Hot Plug	8TB	2 x 4TB
Hot Plug SFF SAS HDD	14.4 TB	4 x 2.4 TB + 2 x 2.4 TB (with optional +2 drive option)
Hot Plug SFF SATA HDD	12 TB	4 x 2.0 TB + 2 x 2.0 TB (with optional + 2 drive option)
Hot Plug SFF SAS SSD	92.16 TB	4 x 15.36 TB + 2 x 15.36 TB (with optional + 2 drive option)
Hot Plug SFF SATA SSD	46.08 TB	4 x 7.68 TB + 2 x 7.68 TB (with optional + 2 drive option)
Hot Plug SFF SAS + NVMe SSD	91.28 TB	4 x 15.36 TB + 2 x 15.36 TB (with optional + 2 drive option)
Hot Plug SFF SATA + NVMe SSD	61.44 TB	4 x 7.68 TB + 2 x 15.36 TB (with optional + 2 drive option)
Hot Plug LFF SAS HDD	36 TB	2 x 18 TB
Hot Plug LFF SATA HDD	36 TB	2 x 18 TB
Hot Plug LFF SAS SSD	3.20 TB	2 x 1.6 TB
Hot Plug LFF SATA SSD	1.92 TB	2 x 960 TB
M.2 SATA SSD	1.92 TB	2 x 960 GB
M.2 NVMe SSD	7.68TB	2 x 480 GB

Power Supply

- HPE 290W Non-redundant FIO Power Supplies
 - **P21649-B21**, HPE DL20 Gen10 Plat 290W FIO Power Supply Kit
 - **P45476-B21**, HPE ProLiant DL20 Gen10 Plus 290W FIO Power Supply Kit

Notes:

 - Both 290W Power Supplies support both Pre-Configured Models and Configured Factory Integrated Models
 - P21649-B21, Available in 92% efficiency
 - P45476-B21, Available in 94% efficiency, currently available in EMEA only
- HPE Redundant Power Supplies
 - **865408-B21**, HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Notes: Available in 94% efficiency.
 - **865434-B21**, HPE 800W Flex Slot -48VDC Platinum Hot Plug Low Halogen Power Supply Kit
 - **865438-B21**, HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
Notes: Flex Slot -48VDC power supplies support power efficiency of up to 94% and 96%.
 - **P45948-B21**, HPE DL20 Gen10 Plus RPS FIO Enable Kit
Notes: RPS Kit required and must be added when using redundant power supplies



Standard Features

HPE Entry-Level Power Supplies provide lower-cost options for customers trying to balance their need for enterprise class efficiency and reliability while maintaining the lowest possible hardware costs. The above-mentioned Entry-Level power supply options have been designed specifically for HPE ProLiant DL20 Gen10 Plus server.

The HPE 290W Non-redundant Power Supply is the standard, non-redundant AC power supply and is optimized for the DL20 Gen10 Plus rack server.

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

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
Video	1 Rear - VGA port (standard on all chassis types)
Network Ports	2x 1GbE embedded NIC (standard on all chassis types)
iLO Remote Mgmt Port	1 Gb Dedicated
USB	5 USB ports (standard) Front: 1xUSB 3.2, 1xUSB 2.0 iLO Service Port Rear: 2xUSB 3.2 Internal: 1x USB 3.2

Operating Systems and Virtualization Software

- See [HPE Servers Support & Certification Matrices](#)
 - [Microsoft Windows Server](#)
 - [VMware ESXi](#)
 - [Red Hat Enterprise Linux \(RHEL\)](#)
 - [SUSE Linux Enterprise Server \(SLES\)](#)
 - [Canonical Ubuntu](#)

Notes:

- VMware supported only with Intel® Xeon® E processors, not supported with Intel® Pentium® processors. No Legacy Mode Support on VMWare. <https://kb.vmware.com/s/article/84233>
 - 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>.
-



Standard Features

Upgradeability

One of the following depending on model

- Up to 4 DIMM slots available for higher memory capacity
- Up to 4SFF (+2SFF optional) Drive bays or 2LFF Drive bays
- HPE Smart Array or Smart HBA Controller
- Redundant Power Supply
- Dedicated iLO Management Port
- M.2 NVMe SSDs for boot

Graphic

Integrated Matrox G200 video standard

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

HPE iLO 5 on system management memory

- 32 MB Flash
- 4 Gbit DDR4 with ECC protection

Industry Standard Compliance

- ACPI 6.3 Compliant
- PCIe 4.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- USB 3.2 Compliant
- SMBIOS 3.2
- UEFI 2.6 (Unified Extensible Firmware Interface Forum)
- Redfish API
- IPMI 2.0
- Secure Digital 4.0
- TPM 2.0 Gen10 support
- Advanced Encryption Standard (AES)
- Triple Data Encryption Standard (3DES)
- SNMP v3
- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line (SMASH CLP)
- Active Directory v1.0
- ASHRAE A3/A4
- Energy Star

Notes: For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: https://support.hpe.com/hpesc/public/docDisplay?docId=a00026969en_us&page=index.html.

- European Union (EU) Lot 9

Notes: Beginning on January 1st, 2024, the EU's Lot 9 eco-design regulations for servers and storage products will enforce minimum efficiency for AC power supplies: 94% for multi-output and 96% for single-output. HPE power supplies that meet Lot 9 requirements are: 865438-B21 (single-output & 96% efficient) and P45476-B21 (multi-output and 94% efficient).



Standard Features

HPE is on target to fulfil compliant systems ahead of time and will begin enforcing these requirements in advance to satisfy requests with the current power supplies by the set deadline. For more information regarding HPE Lot 9 conformance, please visit: <https://www.hpe.com/us/en/about/environment/msds-specs-more.html>

HPE Server UEFI/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 UEFI Mode (default).

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

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

- Secure Boot and Secure Start enable enhanced security.
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives.
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using “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
- iSCSI Software Initiator Support.
- HTTP/HTTPS Boot support as a PXE alternative.
- Boot support for option cards that only support an UEFI option ROM

Notes:

- For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.
 - Legacy FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen10 Plus Server
-

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 one or more servers with Intelligent Provisioning.

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

iLO RESTful API

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



Standard Features

Server Utilities

Active Health System

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

Active Health System Viewer

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

Smart Update

Keep your servers up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP). Learn more at <http://www.hpe.com/info/smartupdate>

iLO Amplifier Pack

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

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

HPE iLO Mobile Application

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

RESTful Interface Tool

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

Scripting Tools

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

HPE OneView Standard

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

HPE Systems Insight Manager (HPE SIM)

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

Security

- UEFI Secure Boot and Secure Start support.
- Immutable Silicon Root of Trust
- FIPS 140-2 validation
- Common Criteria certification
- Configurable for PCI DSS compliance
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Support for Commercial National Security Algorithms (CNSA)
- iLO Security Modes including a New iLO Advanced Premium Security License



Standard Features

- Granular control over iLO interfaces
- Smart card (PIV/CAC) and Kerberos based 2-factor Authentication.
- Tamper-free updates – components digitally signed and verified.
- Secure Recovery – recover critical firmware to known good state on detection of compromised FW
- Ability to rollback firmware
- Secure erase of NAND
- TPM (Trusted Platform Module) 2.0 Gen10
- Bezel Locking Kit
- Chassis Intrusion detection option
- Intel® Software Guard Extensions (Intel® SGX)

Notes: Intel® SGX is supported in selective processors. Please refer to the Standard Features – Processor section.

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 Services 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 by 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:

<https://www.hpe.com/us/en/search-results.html?page=1&q=servers%20warranty&autocomplete=0>



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 GreenLake for Compute Ops Management

HPE is intelligently transforming compute management with an intuitive cloud operating experience through HPE GreenLake cloud platform to streamline and secure operations from edge-to-cloud. Automated key lifecycle tasks, for onboarding, updating, managing, and monitoring HPE servers, brings agility and greater efficiencies to wherever compute devices reside via a unified single browser-based interface. Manage single locations or multiple, distributed sites. Keep tens to thousands of servers secure with batch policy controls and automated updates.

Compute Ops Management is cloud-native software that is continually updated with new services, features, patches, and fixes. The management application resides in the HPE GreenLake cloud platform (access via <https://console.greenlake.hpe.com>) and leverages the HPE GreenLake architecture, security, and unified operations.

For a complete list of software as-a-service subscription SKUs and more information, visit the HPE GreenLake for Compute Ops Management QuickSpecs: <https://www.hpe.com/psnow/doc/a50004263enw>

For information on supported HPE servers, the complete list can be found here: <https://www.hpe.com/info/com-supported-servers>

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 and 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>

HPE Insight Cluster Management Utility (CMU)

HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at <http://www.hpe.com/info/cmu>



Optional Features

Rack and Power Infrastructure

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

HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10-year Warranty to support higher density computing.

HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°, 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 of workload. Some UPSs include options for remote management and 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 Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

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

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

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

HPE Managed Services

HPE runs your IT operations, providing 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.

[HPE Managed Services | HPE](#)

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

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

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

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

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

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service 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 Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service 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>



Service and Support

HPE Lifecycle Services

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

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

Notes: To review the list of Lifecycle Services available for your product go to:

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

For a list of the most frequently purchased services using service credits, see the [HPE Service Credits Menu](#)

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

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

Defective Media Retention

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

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

Parts and Materials

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

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

How to Purchase Services

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

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



Service and Support

AI Powered and Digitally Enabled Support Experience

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

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

<https://support.hpe.com/hpesc/public/home/signin>

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform 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 edge-to-cloud platform 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

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

For more information

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



Pre-configured Models

Pre-Configured models ship with the configurations below.

- Pre-Configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.
- Hewlett Packard Enterprise does not allow factory integration of options into pre-configured models. Any additional options purchased will not be shipped inside the server.
- Network Choice models do not include embedded LOM.

Base Models	
SKU Number	P44113-B21 P44113-421 P44113-AA1
Model Name	HPE ProLiant DL20 Gen10 Plus E-2314 2.8GHz 4-core 1P 16GB-U 2LFF 290W PS Server
Chassis	HPE ProLiant DL20 Gen10 Plus 2LFF Configure-to-order Server
Processor	E-2314 (4 core, 2.8 GHz, 65W)
Number of Processors	One
Memory	16 GB (1x16 GB UDIMM, 3200 MT/s)
Network Controller	HPE embedded 1Gb 2-port BCM5720 network Adapter
Storage Controller	Embedded Intel VROC SATA SW RAID Notes: SATA only
Included Hard Drives	None ship standard, 2 LFF supported
Optical Drive	Optional
Expansion Slots	2 PCIe 4.0 slots
Power Supply	1x HPE DL20 Gen10 290W Platinum Power Supply Kit (-B21 & -AA1) 1x HPE ProLiant DL20 Gen10 Plus 290W FIO Power Supply Kit (-421)
Fans	3 non hot plug, non-redundant
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional)
Rail Kit	HPE 1U Short Friction Rail Kit
Security	TPM (Trusted Platform Module) (-B21 & -421) TPM disabled for shipments to China (-AA1)
Form Factor	1U Rack
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response



Pre-configured Models

Performance Models		
SKU Number	P44114-B21 P44114-421	P66395-421
Model Name	HPE ProLiant DL20 Gen10 Plus E-2314 2.8GHz 4-core 1P 16GB-U 4SFF 500W RPS Server	HPE ProLiant DL20 Gen10 Plus E-2314 2.8GHz 4-core 1P 16GB-U 4SFF 800W RPS Server
Chassis	HPE ProLiant DL20 Gen10 Plus 4SFF Configure-to-order Server	
Processor	E-2314 (4 core, 2.8 GHz, 65W)	
Number of Processors	One	
Memory	16 GB (1x16 GB UDIMM, 3200 MT/s)	
Network Controller	HPE embedded 1Gb 2-port BCM5720 network Adapter	
Storage Controller	Embedded Intel VROC SATA SW RAID Notes: SATA only	
Included Hard Drives	None ship standard, 4 SFF supported	
Optical Drive	Optional	
Expansion Slots	2 PCIe 4.0 slots	
Power Supply	1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
Fans	3 non hot plug, non-redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional)	
Rail Kit	HPE 1U Short Friction Rail Kit	
Security	TPM (Trusted Platform Module)	
Form Factor	1U Rack	
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response	



Pre-configured Models

Entry Models	
SKU Number	P44112-B21 P44112-421 P44112-AA1
Model Name	HPE ProLiant DL20 Gen10 Plus E-2314 2.8GHz 4-core 1P 8GB-U 2LFF-NHP 290W PS Server
Chassis	HPE ProLiant DL20 Gen10 Plus 2LFF Non-hot Plug Configure-to-order Server
Processor	E-2314 (4 core, 2.8 GHz, 65W)
Number of Processors	One
Memory	8 GB (1x8 GB UDIMM, 3200 MT/s)
Network Controller	HPE embedded 1Gb 2-port BCM5720 network Adapter
Storage Controller	Embedded Intel VROC SATA SW RAID Notes: SATA only
Included Hard Drives	None ship standard, 2 LFF supported
Optical Drive	Optional
Expansion Slots	2 PCIe 4.0 slots
Power Supply	1x HPE DL20 Gen10 290W Platinum Power Supply Kit (-B21 & -AA1) 1x HPE ProLiant DL20 Gen10 Plus 290W FIO Power Supply Kit (-421)
Fans	3 non hot plug, non-redundant
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional)
Rail Kit	HPE 1U Short Friction Rail Kit
Security	TPM (Trusted Platform Module) (-B21 & -421) TPM disabled for shipments to China (-AA1)
Form Factor	1U Rack
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response



Pre-configured Models

High Performance Models		
SKU Number	P44115-B21 P44115-421	P63678-B21
Model Name	HPE ProLiant DL20 Gen10 Plus E-2336 2.9GHz 6-core 1P 16GB-U 4SFF 500W RPS Server	HPE ProLiant DL20 Gen10 Plus E-2336 2.9GHz 6-core 1P 32GB-U 4SFF 2x500W RPS Server
Chassis	HPE ProLiant DL20 Gen10 Plus 4SFF Configure-to-order Server	
Processor	E-2336 (6 core, 2.9 GHz, 65W)	
Number of Processors	One	
Memory	16 GB (1x16 GB UDIMM, 3200 MT/s)	32 GB (2x16 GB UDIMM, 3200 MT/s)
Network Controller	HPE embedded 1Gb 2-port BCM5720 network Adapter	
Storage Controller	Embedded Intel VROC SATA SW RAID Notes: SATA only	
Included Hard Drives	None ship standard, 4 SFF supported	2x 480GB SATA SSD
Optical Drive	Optional	
Expansion Slots	2 PCIe 4.0 slots	
Power Supply	1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Fans	3 non hot plug, non-redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional)	
Rail Kit	HPE 1U Short Friction Rail Kit	
Security	TPM (Trusted Platform Module)	
Form Factor	1U Rack	
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response	



Pre-configured Models

High Performance Models		
SKU Number	P66394-421	P69301-005
Model Name	HPE ProLiant DL20 Gen10 Plus E-2336 2.9GHz 6-core 1P 16GB-U 4SFF 800W RPS Server	HPE ProLiant DL20 Gen10 Plus E-2336 2.9GHz 6-core 1P 32GB-R 4SFF 500W RPS Server
Chassis	HPE ProLiant DL20 Gen10 Plus 4SFF Configure-to-order Server	
Processor	E-2336 (6 core, 2.9 GHz, 65W)	
Number of Processors	One	
Memory	16 GB (1x16 GB UDIMM, 3200 MT/s)	32 GB (2x16 GB UDIMM, 3200 MT/s)
Network Controller	HPE embedded 1Gb 2-port BCM5720 network Adapter	
Storage Controller	Embedded Intel VROC SATA SW RAID Notes: SATA only	
Included Hard Drives	None ship standard, 4 SFF supported	2x 480GB SATA SSD
Optical Drive	Optional	
Expansion Slots	2 PCIe 4.0 slots	
Power Supply	1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	2x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Fans	3 non hot plug, non-redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional)	
Rail Kit	HPE 1U Short Friction Rail Kit	
Security	TPM (Trusted Platform Module)	
Form Factor	1U Rack	
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response	



Pre-configured Models

SKU Number	P44112-291	P44113-291
Model Name	HPE ProLiant DL20 Gen10 Plus E-2314 2.8GHz 4-core 1P 8GB-U 2LFF-NHP 290W PS Server	HPE ProLiant DL20 Gen10 Plus E-2314 2.8GHz 4-core 1P 16GB-U 2LFF 290W PS Server
Chassis	HPE ProLiant DL20 Gen10 Plus 2LFF Non-hot Plug Configure-to-order Server	HPE ProLiant DL20 Gen10 Plus 2LFF Configure-to-order Server
Processor	E-2314 (4 core, 2.8 GHz, 65W)	
Number of Processors	One	
Memory	8 GB (1x8 GB UDIMM, 3200 MT/s)	16 GB (1x16 GB UDIMM, 3200 MT/s)
Network Controller	HPE embedded 1Gb 2-port BCM5720 network Adapter	
Storage Controller	Embedded Intel VROC SATA SW RAID Notes: SATA only	
Included Hard Drives	None ship standard, 2 LFF supported	
Expansion Slots	2 PCIe 4.0 slots	
Power Supply	1x HPE DL20 Gen10 290W Platinum Power Supply Kit	
Fans	3 non hot plug, non-redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional)	
Rail Kit	HPE 1U Short Friction Rail Kit	
Security	TPM (Trusted Platform Module)	
Form Factor	1U Rack	
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response	



Pre-configured Models

SKU Number	P44114-291	P44115-291
Model Name	HPE ProLiant DL20 Gen10 Plus E-2314 2.8GHz 4-core 1P 16GB-U 4SFF 500W RPS Server	HPE ProLiant DL20 Gen10 Plus E-2336 2.9GHz 6-core 1P 16GB-U 4SFF 500W RPS Server
Chassis	HPE ProLiant DL20 Gen10 Plus 4SFF Configure-to-order Server	
Processor	E-2314 (4 core, 2.8 GHz, 65W)	E-2336 (6 core, 2.9 GHz, 65W)
Number of Processors	One	
Memory	16 GB (1x16 GB UDIMM, 3200 MT/s)	
Network Controller	HPE embedded 1Gb 2-port BCM5720 network Adapter	
Storage Controller	Embedded Intel VROC SATA SW RAID Notes: SATA only	
Included Hard Drives	None ship standard, 4 SFF supported	
Expansion Slots	2 PCIe 4.0 slots	
Power Supply	1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	
Fans	3 non hot plug, non-redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional)	
Rail Kit	HPE 1U Short Friction Rail Kit	
Security	TPM (Trusted Platform Module)	
Form Factor	1U Rack	
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response	

Country Code Key

- -B21 = Worldwide
- -005 = HPE Smart Choice for US and Canada
- -291 = Japan
- -421 = Europe, the Middle East and Africa
- -AA1 = China

HPE Smart Choice purchase program

- HPE Smart Choice purchase program is designed to make it easier to do business with HPE by offering fully configured solutions.
- Order popular configs in a single SKU.
- Get immediate purchase price in minutes.
- Get fast, predictable shipping.



Pre-configured Models

Notes:

SKU P63678-B21 – Available in North America only.

The -B21 WW SKU is to be ordered in all countries other than EMEA, Japan or PRC. Not all models are available in all regions. Check with your local country Hewlett Packard Enterprise offices for availability.



Configuration Information

This section lists some of the steps required to configure a Factory Integrated Model.

To ensure 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 number of drives ordered with 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)

Chassis	HPE ProLiant DL20 Gen10 Plus 2LFF Non-hot Plug Configure-to-order Server	HPE ProLiant DL20 Gen10 Plus 2LFF Configure-to-order Server	HPE ProLiant DL20 Gen10 Plus 4SFF Configure-to-order Server
SKU Number	P44109-B21	P44110-B21	P44111-B21
Processor	1	1	1
DIMM Slots	4 DIMM slots for UDIMM DDR4 Memory		
Storage Controller	Embedded Intel VROC SATA SW RAID		
PCIe	2 PCIe 4.0 Slots		
Drive Cage	2LFF Non-Hot Plug	2LFF Hot Plug	4SFF Hot Plug
Network Controller	HPE embedded 1Gb 2-port BCM5720 network Adapter		
Fans	3 non hot plug, non-redundant		
Management	iLO Management (standard), Intelligent Provisioning (standard)		
USB	2 front, 1 internal, 2 rear		
Ears	HPE Thumbscrew Ears		

Step 2: Choose Required Options

Please select one processor required below.

Notes:

- Only one processor supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.
- DL20 Gen10 Plus with new Intel Xeon E-2300 processors comes with BCM 5720 dual port 1Gb network controller on board and supports 2x 1Gb Ethernet ports.
- An additional CPU baffle will be integrated in server if 95W processor is selected.

Step 2a: Choose Processor Options

Processor Option Kits

Intel Xeon-E Processors

Intel Xeon E-2388G 3.2GHz 8-core 95W FIO Processor for HPE	P45266-B21
Intel Xeon E-2386G 3.5GHz 6-core 95W FIO Processor for HPE	P45264-B21
Intel Xeon E-2378G 2.8GHz 8-core 80W FIO Processor for HPE	P45262-B21
Intel Xeon E-2356G 3.2GHz 6-core 80W FIO Processor for HPE	P45256-B21
Intel Xeon E-2374G 3.7GHz 4-core 80W FIO Processor for HPE	P45258-B21
Intel Xeon E-2378 2.6GHz 8-core 65W FIO Processor for HPE	P45260-B21
Intel Xeon E-2336 2.9GHz 6-core 65W FIO Processor for HPE	P45254-B21
Intel Xeon E-2334 3.4GHz 4-core 65W FIO Processor for HPE	P45252-B21
Intel Xeon E-2324G 3.1GHz 4-core 65W FIO Processor for HPE	P45250-B21
Intel Xeon E-2314 2.8GHz 4-core 65W FIO Processor for HPE	P45248-B21



Configuration Information

Intel® Pentium® Processor G Series

Intel Pentium G6405 4.1GHz 2-core 58W FIO Processor for HPE

P45390-B21

Notes: HPE NS204i-p x2 Lanes NVMe PCIe3 x8 OS Boot Device (P12965-B21) is not supported with Intel Pentium® Processors

Step 2b: Choose Memory Options

Please select one or more memory from below.

Notes:

- HPE memory from previous generation servers is not qualified or warranted with this HPE ProLiant Server.
- HPE Standard Memory (UDIMM) is required to realize the memory performance improvements and enhanced functionality listed in this document for this HPE ProLiant Server.
- With one processor installed, four DIMMs slots are available.
- Quantity of memory DIMMS selected is recommended to be 1,2 or 4 for balanced performance.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- For Server Memory Population Rules for HPE ProLiant Gen10 Plus Servers with Intel® Xeon® E-2300 Processors see details here: <http://www.hpe.com/docs/server-memory> For General Server Memory and DIMM Population Rules and Guidelines for Gen10 Plus see details here: <http://www.hpe.com/docs/memory-population-rules>.

Unbuffered DIMMs (ECC UDIMMs) – 3200 MT/s

HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Unbuffered Standard Memory Kit

P43016-B21

HPE 16GB (1x16GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Unbuffered Standard Memory Kit

P43019-B21

HPE 32GB (1x32GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Unbuffered Standard Memory Kit

P43022-B21

Notes:

- Running at up to 2933 MT/s with Intel® Xeon® processors when two dual-rank DIMMS are installed in the same channel.
- HPE Server Memory compatibility for a specific server platform may vary or be limited within a server platform 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 an HPE server model or family and yet occasionally not be supported with some configurations within that server family.

Step 2c: Choose Power Supplies

Please select one or two power supplies from below.

Notes:

- Mixing of 2 different power supplies are NOT allowed.
- To review the power requirements for your selected configuration, please use the [HPE Power Advisor Tool](#)

HPE ProLiant Gen10 Plus Essential Server Power Supplies - Non-Redundant

HPE DL20 Gen10 290W Platinum Power Supply Kit

P21649-B21

- (92% efficiency, Platinum)

HPE ProLiant DL20 Gen10 Plus 290W FIO Power Supply Kit

P45476-B21

- (94% efficiency, Platinum, Available in EMEA only)

Notes:

- This FIO option can only be bought integrated in the server. It cannot be ordered as a standalone option after server purchase.
- P45476-B21, available in EMEA only



Configuration Information

- The 290W Platinum power supply, 800W and 1000W Power Supplies all meet the EU Lot 9 regulation, which is essential in countries which mandatorily require CE marking. For more information regarding EU Lot 9, please visit [HPE Lot 9 conformance](https://www.hpe.com/us/en/about/environment/msds-specs-more.html) <https://www.hpe.com/us/en/about/environment/msds-specs-more.html>

HPE Flex Slot Power Supplies

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE ProLiant DL20 Gen10 Plus RPS FIO Enablement Kit	P45948-B21

Notes:

- It is mandatory to choose the RPS enablement kit to support a redundant power supply.
 - This RPS FIO option can only be bought integrated in the server. It cannot be ordered as a standalone option after server purchase.
-

Step 3: Choose Additional Options for Factory Integration from Core and Additional Option sections below

HPE Security Options

HPE Server Security Optimized Service for HPE ProLiant (R9S59A) is an optional security upgrade intended for agencies and regulated industries with enhanced security and compliance needs. Applying this option to a DL3XX Gen10/Gen10 Plus CTO server ensures it is hardened by turning on advanced safeguards in place against cyber-exploits throughout the server lifecycle. An iLO Advanced License required for High Security Mode and compatible intrusion detection device option kits are prerequisites for the full optimization service.



Core Options

Some options may only 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

HPE iLO Common Password

HPE iLO Common Password FIO Setting P08040-B21

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 Legacy FIO Mode Setting 758959-B22

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

HPE Security

HPE ProLiant DL20 Gen10 Plus Server ships with embedded Trusted Platform Module (TPM) 2.0 enabled by default. For servers shipping to China, the TPM is disabled.

Risers

HPE ProLiant DL20 Gen10 Plus x8/x8 LP FIO Riser Kit P46114-B21

Notes: Mandatory to select at least one riser.

Part number	Description	Slot Bus width (Gen4 lanes)	
		#1	#2
P46114-B21	HPE DL20 Gen10 Plus 2x8 LP FIO Riser Kit	X8	X8

Optical Drive Options

HPE Mobile USB DVD-RW Optical Drive 701498-B21

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

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

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

HPE DL20 Gen10 LFF ODD Cable Kit P06681-B21

Notes: This option kit is required for Optical Drive option (LFF model only).

HPE DL20 Gen10 SFF ODD Enablement Kit P06677-B21

Notes: This option kit is required to support ODD on SFF chassis.

SFF Drive Option Kit

HPE ProLiant DL20 Gen10 Plus 2SFF HDD Enablement Kit P45450-B21

Notes:

- This option is required to upgrade 4SFF chassis to support additional 2SFF drives.
- 500W power supply is required with selection of this 2SFF enablement kit.



Core Options

Serial Port Upgrade Kit

HPE ProLiant DL20 Gen10 Plus Serial Port Cable Kit

P45469-B21

Notes:

- This option is required to support Serial/COM Port.
- This kit includes one serial port cable and two hex screws.

Cable Kits

HPE ProLiant DL20 Gen10 Plus M.2 LP Enablement Kit

P45458-B21

Notes: This option does not consume a PCIe slot.

HPE ProLiant DL20 Gen10 Plus SATA M.2 Cable Kit

P45468-B21

Notes: This cable kit option must be selected when HPE Universal SATA AIC HHHL M.2 SSD Kit (878783-B21) is in the configuration

HPE Hard Disk Drives

Notes: For the most up to date HDD & SSDs options available Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator.

Mission Critical (Enterprise) - 12G SAS - SFF Basic Carrier Drives

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

P28352-B21

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

P53562-B21

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

P28586-B21

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

P40432-B21

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

P53560-B21

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

P53561-B21

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

P40430-B21

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

P28028-B21

Business Critical (Midline) – 12G SAS – LFF Low Profile Carrier Drives

HPE 20TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD

P53553-B21

HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD

P37669-B21

HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD

P23608-B21

HPE 14TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD

P09155-B21

HPE 12TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD

881781-B21

HPE 10TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD

P53556-B21

HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD

834031-B21

HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD

861746-B21

HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD

833928-B21

HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD

833926-B21

Business Critical (Midline) - 12G SAS - SFF Basic Carrier Drives

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

P28505-B21

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

P53563-B21



Core Options

Business Critical (Midline) - 6G SATA - LFF Low Profile Carrier Drives

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

Business Critical (Midline) 6G SATA - SFF Basic Carrier Drives

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

Business Critical (Entry) 6G SATA - LFF NHP/Raw Drives

HPE 4TB SATA 6G Business Critical 7.2K LFF RW 1-year Warranty Multi Vendor HDD	801888-B21
HPE 1TB SATA 6G Business Critical 7.2K LFF RW 1-year Warranty Multi Vendor HDD	801882-B21

SSD Selection

To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability, HPE recommends SSDs from the list located here: <http://www.hpe.com/products/recommend>

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

Notes: For the most up to date HDD & SSDs options available Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator.

Mixed Use - 24G SAS - SFF Basic Carrier - Solid State Drives

HPE 6.4TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49057-B21
HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49053-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-B21
HPE 800GB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49047-B21

Notes: DL20 Gen10 Plus supports up to SAS 12G, performance downgrade to 12G is expected once SAS 24G drive is installed in DL20 Gen10 Plus system

Mixed Use - 12G SAS - LFF Low Profile Carrier - Solid State Drives

HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD	P37009-B21
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Mixed Use - 12G SAS - SFF Basic Carrier - Solid State Drives

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



Core Options

Read Intensive – 24G SAS – SFF Basic Carrier – Solid State Drives

HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49041-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49035-B21
HPE 1.92TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49031-B21
HPE 960GB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49029-B21

Notes: DL20 Gen10 Plus supports up to SAS 12G, performance downgrade to 12G is expected once SAS 24G drive is installed in DL20 Gen10 Plus system

Read Intensive – 12G SAS – SFF Basic Carrier – Solid State Drives

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

Mixed Use – 6G SATA - SFF Basic Carrier - Solid State Drives

HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40505-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58248-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC PM897 SSD	P44013-B21
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58244-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 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-B21
HPE 480GB SATA 6G Mixed Use SFF BC PM897 SSD	P44011-B21

Read Intensive – 6G SATA – LFF Low Profile Carrier – Solid State Drive

HPE 960GB SATA 6G Read Intensive LFF LPC Multi Vendor SSD	P47808-B21
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Read Intensive – 6G SATA – SFF Basic Carrier – Solid State Drive

HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC PM893 SSD	P44010-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58240-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC PM893 SSD	P44009-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-B21
HPE 960GB SATA 6G Read Intensive SFF BC PM893 SSD	P44008-B21
HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-B21
HPE 480GB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58236-B21
HPE 480GB SATA 6G Read Intensive SFF BC PM893 SSD	P44007-B21
HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21
HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-B21



Core Options

Mixed Use – High Performance - NVMe - SFF - Solid State Drives

HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50233-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50230-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50227-B21

Mixed Use – Mainstream - NVMe - SFF - Solid State Drives

HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47840-B21
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65023-B21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47839-B21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65015-B21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47838-B21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65007-B21
HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47837-B21
HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P64999-B21

Read Intensive – High Performance - NVMe - SFF - Solid State Drives

HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50224-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50222-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50219-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50216-B21

Read Intensive – Mainstream - NVMe - SFF - Solid State Drives

HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47847-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64848-B21
HPE 1.9TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47845-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64846-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47846-B21
HPE 1.9TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47845-B21
HPE 1.92TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64844-B21
HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47844-B21
HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64842-B21

Read Intensive - NVMe - M.2 - Solid State Drives

HPE 1.92TB NVMe Gen3 Mainstream Performance Read Intensive M.2 Multi Vendor SSD	P40515-B21
HPE 960GB NVMe Gen3 Mainstream Performance Read Intensive M.2 Multi Vendor SSD	P40514-B21
HPE 480GB NVMe Gen3 Mainstream Performance Read Intensive M.2 Multi Vendor SSD	P40513-B21

Notes:

- Running at PCIe 3.0 x2 speed on DL20 Gen10 Plus.
- Not supported by HPE Smart Array controllers.

Read Intensive – M.2.- Solid State Drives (2280 type)

HPE 480GB SATA 6G Read Intensive M.2 Multi Vendor SSD	P47818-B21
HPE 240GB SATA 6G Read Intensive M.2 Multi Vendor SSD	P47817-B21

Internal Dual M.2 Kit

HPE Universal SATA 6G AIC HHHL M.2 SSD Enablement Kit	878783-B21
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Notes:

- The Universal SATA M.2 Kit above will require a PCIe slot and support up to two of the same M.2 cards.
- M.2 SATA Cable kit (45468-B21) is required to support this option.



Core Options

Hard Drive Blank Kits

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

Notes: For the most up to date HDD & SSDs options available Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information and HDD and SSD QuickSpecs.

HPE Networking

25 Gigabit Ethernet adapters

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
Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P13188-B21

10 Gigabit Ethernet adapters

Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21
Intel X710-DA2 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P28787-B21

Notes: Due to design limitation of the Butterfly Riser it is not possible to populate a 4-port RJ45 PCIe card into slot1 of DL20 Gen10 Plus as it will cause an interference between the 4-port RJ45 and the FH bkt of slot2. Therefore, a 4-port RJ45 PCIe card can only be accommodated in slot2 of DL20 Gen10 Plus with a FH bracket.

1 Gigabit Ethernet adapters

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

Notes: Max of 1, HPE Ethernet 1Gb 4-port 366T Adapter can be selected.

Information: HPE Ethernet 1Gb 4-port 366T Adapter can only be populated in Slot2, consider this restriction towards total PCIe cards selection in the server. Due to design limitation of the Butterfly Riser, it is not possible to populate a 4-port RJ45 PCIe card into slot1 of DL20 Gen10 Plus as it will cause an interference between the 4-port RJ45 and the FH bkt of slot2. Therefore, a 4-port RJ45 PCIe card can only be accommodated in slot2 of DL20 Gen10 Plus with a FH bracket.



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 Converged Infrastructure Management Software

HPE OneView Advanced (with HPE iLO Advanced)

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

HPE OneView Advanced (without HPE iLO Advanced)

HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE

Notes:

- Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <https://www.hpe.com/us/en/integrated-systems/software.html>
- Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.
- Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <https://www.hpe.com/us/en/integrated-systems/software.html>

Software as a Service Management

HPE GreenLake for Compute Ops Management

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

HPE GreenLake for Compute Ops Management Enhanced 1-year Upfront ProLiant SaaS	R7A10AAE
HPE GreenLake for Compute Ops Management Enhanced 5-year Upfront ProLiant SaaS	R7A12AAE

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

HPE GreenLake for Compute Ops Management Base SaaS	R6Z73AAE
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Additional Options

HPE Security

HPE 1U Gen10 Bezel Kit	867998-B21
HPE Bezel Lock Kit	875519-B21
HPE DL20 Latch Ear FIO Kit	P06716-B21

Notes: HPE DL20 Latch Ear FIO Kit (P06716-B21) is required to support both the Bezel Kits above. This FIO Kit can only be bought integrated in the server. It cannot be order as a standalone option after server purchase. This Latch Ear Option is required of both Bezel kits above.

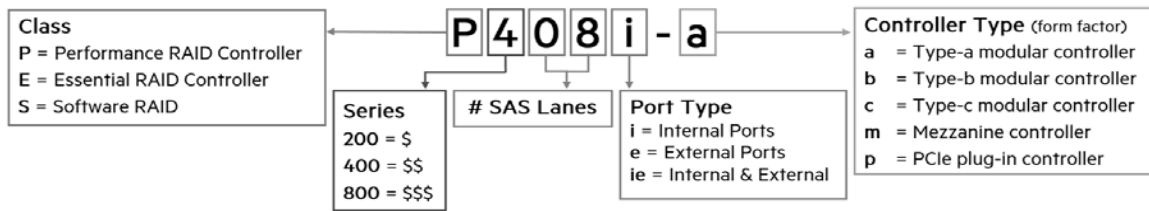
HPE 1U Gen10 Chassis Intrusion Detection Kit	866473-B21
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Notes: This provides a physical connection from the chassis board and hood and detects any physical intrusion into the chassis, providing security during the entire supply chain process of shipping,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

HPE Storage Controllers

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

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



HPE Flexible Smart Array Controllers

HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular LH Controller	869081-B21
HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular LH Controller	869079-B21

Notes:

- To connect 869081-B21 or 869079-B21 to the 4SFF HDD backplane, leverage the 4SFF BP MiniSAS cable shipped within DL20 Gen10 Plus 4SFF system. (HPE internal cable p/n P06078-001: 4SFF BP MiniSAS to AROC)
- To connect 869081-B21 or 869079-B21 to the 4+2SFF HDD backplane, leverage the 4SFF BP MiniSAS cable shipped within DL20 Gen10 4SFF system, and the 2SFF BP MiniSAS to AROC cable is bundled with HPE DL20 Gen10 Plus 2SFF HDD Enablement Kit (P45471-B21). (HPE internal cable p/n P06078-001: 4SFF BP MiniSAS to AROC; HPE cable p/n P06069-B21: 2SFF BP MiniSAS to AROC)
- To connect P408i-a or E208i-a controllers to 2LFF Model - then cable kit P06683-B21 - HPE DL20 Gen10 M.2 SATA/LFF AROC Cbl Kit is required. For 2LFF BTO Models SKU cable must be added to the configuration as add-on option SKU.

HPE Smart Array Controllers

HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller	804405-B21
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
HPE 12W Smart Storage Lithium-ion Battery	782961-B21

Notes: If P408e-p or P408i-a controller is selected then HPE 12W Smart Storage Battery (782961-B21) must be selected. (Max storage battery q'ty to be one per DL20 Gen10 Plus server)



Additional Options

HPE Tri-Mode Controllers

HPE MR216i-a Gen10 Plus x16 Lanes without Cache NVMe/SAS 12G Controller	P26325-B21
HPE MR216i-p Gen10 Plus x16 Lanes without Cache NVMe/SAS 12G Controller	P26324-B21
HPE MR416i-a Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller	P26279-B21
HPE MR416i-p Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller	P06367-B21
Microchip SmartRAID SR416i-a x16 Lanes 4GB Cache NVMe/SAS 24G Controller for HPE Gen10 Plus	P12688-B21

Notes:

- If either option P12688-B21, P26279-B21 or P26325-B21 are selected (-a tri-mode controllers), then slot 2 on the riser card cannot be utilized and Max PCIe card limit = 1.
- Tri-Mode Controllers requires selection of HPE DL20 Gen10 Plus 4SFF Chassis Cbl Kit (P45471-B21)

HPE Boot Controllers

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

- This option, P12965-B21 cannot be selected if Pentium FIO CPU for HPE (P45390-B21) is in the configuration.
- Two 480GB M.2 NVMe SSDs are included for RAID 1 OS Boot Device.
- Occupies one PCIe slot.
- P12965-B21 will require the server be set with UEFI boot mode enabled. Legacy boot mode is not supported.

Optional Software

HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU	Q2F26AAE
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Notes: SmartCache is offered on HPE Smart Array performance RAID controllers.

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

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 SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	R2J62A
HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	R2J63A
HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	R2E08A
HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	R2E09A

HPE Rack Options

Rail Kits

HPE 1U Short Friction Rail Kit	775612-B21
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Additional Options

HPE Racks

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

HPE Power Distribution Units (PDUs)

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

HPE Uninterruptible Power Systems (UPS)

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

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HPE 32GB microSD RAID 1 USB Boot Drive

P21868-B21

Notes: In vSphere 7.0, VMware made changes that impacted the usage of USB/SD Cards as standalone boot devices and will be removing support for them with upcoming versions after 7.x.

SD Card/USB media can still be used as a standalone boot option through all 7.x releases via published

Customer Advisory https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00118986en_us

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 Installation ML/DL Series 10 Service

U7WZ5E

HPE Startup ML/DL Series 10 Service

U7WZ7E



Additional Options

HPE ServicesHPE Tech Care Service

HPE 3 Year Tech Care Basic DL20 Gen10 Plus HW Service	H32YRE
HPE 3 Year Tech Care Basic wDMR DL20 Gen10 Plus HW Service	H32YSE
HPE 3 Year Tech Care Basic wCDMR DL20 Gen10 Plus HW Service	H32YTE
HPE 3 Year Tech Care Essential DL20 Gen10 Plus HW Service	H32YYE
HPE 3 Year Tech Care Essential wDMR DL20 Gen10 Plus HW Service	H32YZE
HPE 3 Year Tech Care Essential wCDMR DL20 Gen10 Plus HW Service	H32ZBE
HPE 5 Year Tech Care Basic DL20 Gen10 Plus HW Service	H32ZWE
HPE 5 Year Tech Care Basic wDMR DL20 Gen10 Plus HW Service	H32ZXE
HPE 5 Year Tech Care Basic wCDMR DL20 Gen10 Plus HW Service	H32ZYE
HPE 5 Year Tech Care Essential DL20 Gen10 Plus HW Service	H33BDE
HPE 5 Year Tech Care Essential wDMR DL20 Gen10 Plus HW Service	H33BFE
HPE 5 Year Tech Care Essential wCDMR DL20 Gen10 Plus HW Service	H33BGE

Notes: For a full list of packaged support services, please visit <http://www.hpe.com/services/ssc>



Memory

HPE Standard Memory

HPE Standard Memory UDIMMs has passed the rigorous Hewlett Packard Enterprise qualification and testing processes. The memory subsystem in this server supports UDIMMs. The server supports single-rank and dual-rank DDR4 UDIMMs operating at up to 3200 MT/s DIMM speeds.

Memory Population guidelines

- The server supports two channels per processor with two DIMMs per channel for a total of four DIMMs per DL20 Gen10 Plus Server.

General Memory Population Rules and Guidelines:

- Only UDIMMs are supported on DL20 Gen10 Plus. No support for RDIMMs and LRDIMMs.
- All the channels in a system run at the fastest common frequency.
- Both single DIMM per channel and dual DIMMs per channel are supported at 3200MT/s.

Supported Memory for HPE ProLiant DL20 Gen10 Plus			
DIMM Type	Unbuffered with ECC DIMMs (UDIMMs)		
HPE SKU P/N	P43016-B21	P43019-B21	P43022-B21
SKU Description	HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Unbuffered Standard Memory Kit	HPE 16GB (1x16GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Unbuffered Standard Memory Kit	HPE 32GB (1x32GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Unbuffered Standard Memory Kit
DIMM Rank	Single Rank (1R)	Single Rank (1R)	Dual Rank (2R)
DIMM Capacity	8GB	16GB	32GB
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
CAS Latency	22-22-22	22-22-22	22-22-22
DIMM Native Speed (MT/S)	3200	3200	3200
Slots That Can Be Populated	4	4	4
Maximum Capacity (Gb)	32 GB (4 x 8 GB)	64 GB (4 x 16 GB)	128 GB (4 x 32 GB)
HPE Server Memory Speed: Intel® Xeon® E processors			
1 DIMM Per Channel	3200 MT/s	3200 MT/s	3200 MT/s
2 DIMM Per Channel	3200 MT/s	3200 MT/s	2933 MT/s
HPE Server Memory Speed: Intel® Pentium® G6405 processor			
1 DIMM Per Channel	2666MT/s	2666 MT/s	2666 MT/s
2 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s

DDR4 memory options part number decoder

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

- 8GB = 8,192 MB
- 16GB = 16,384 MB
- 32GB = 32,768 MB
- 64GB = 65,536 MB
- 128GB = 131,072 MB

For more information on memory, please visit the [HPE DDR4 Standard Memory web site](#).



Memory

DIMM slot and configuration diagram



UDIMM maximum configuration (1 CPU model)

Population order; start with "A" first, "B" second, "C" third, etc.

CPU 1		
	Slot #	Population order
Chnl 2	1	B
	2	D
Chnl 1	3	A
	4	C

General Memory Population Rules and Guidelines

- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, the number and model of installed processors qualified on the platform.
- Only ECC UDIMMs are supported on DL20 Gen10 Plus. No support for non-ECC UDIMMs.
- There are two channels per processor with two DIMM slots per channel.
- Memory channel 1 consists of the two DIMMs that are closest to the processor.
- Memory channel 2 consists of the two DIMMs that are farthest from the processor.
- A white DIMM slot indicates the first slot of a channel (3-A, 1-B).
- Memory speed support depends on the type of processor installed. For more information, see the technical specification of the installed processor.
- The server supports up to 3200 MT/s ECC UDIMMs (Unbuffered DIMMs).
- The server supports up to 128 GB (4 x 32 GB) UDIMMs.
- The server does not support non-ECC UDIMMs, RDIMMs, and LRDIMMs
- Populate the DIMM on slots in this sequence: 3-A, 1-B, 4-C, 2-D.
- Always use HPE qualified DIMMs.
- **Cannot mix memory DIMMs of different capacities when including 32GB UDIMM in the same channel.**
- **Mixing memory DIMMs of different capacities in the server is not recommended when including 32GB UDIMM.**
- For Server Memory Population Rules for HPE ProLiant Gen10 Plus Servers with Intel® Xeon® E-2300 Processors see details here: www.hpe.com/docs/server-memory
- For details on the HPE Server Memory Options Population Rules, visit: <http://www.hpe.com/docs/memory-population-rules>
- To realize the performance memory capabilities listed in this document, HPE DDR4 Smart Memory is required. For additional information, please see the HPE DDR4 Smart Memory QuickSpecs.



Memory

Notes:

- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
 - For details on the HPE Server Memory speed, visit: <https://www.hpe.com/docs/memory-speed-table>
 - HPE Server Memory compatibility for a specific server platform may vary or be limited within a server platform 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 an HPE server model or family and yet occasionally not be supported with some configurations within that server family.
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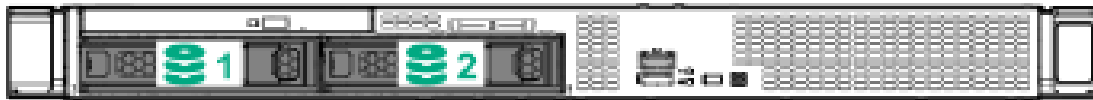
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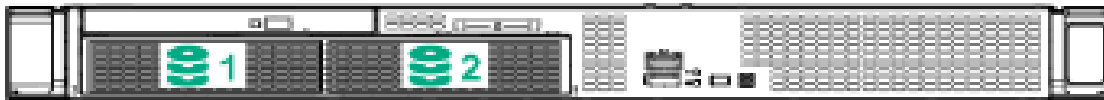
4 SFF device bay numbering



4 SFF + 2SFF device bay numbering



2LFF Hot Plug device bay numbering



2LFF Non-Hot Plug device bay numbering



Technical Specifications

System Unit

Dimensions (Height x Width x Depth)

- **SFF Drives**
4.32 x 43.46 x 38.22 cm
1.70 x 17.11 x 15.05 in
- **LFF Drives**
4.32 x 43.46 x 38.22 cm
1.70 x 17.11 x 15.05 in

Weight (approximate)

- **Non hot Plug 2 LFF fully loaded** (all hard drives, power supplies, and processors installed)
6.00 kg
13.23 lb
- **Hot Plug 2LFF fully loaded** (one hard drive, power supply, and processor installed)
- **Hot Plug 4SFF fully loaded** (two hard drives, power supply, and processor installed)
10 kg
22.05 lb

290W Non-hot Plug Power Supply

Input Requirements

- **Rated Line Voltage**
100 to 120 VAC
200 to 240 VAC
- **Rated Input Current**
5.5 A max (at 100 VAC)
- **Rated Input Frequency**
50 to 60 Hz
- **Rated Input Power**
550 W (at 100 VAC)

BTU Rating

- **Maximum**
1130 BTU per hr (at 115 VAC)
1126 BTU per hr (at 230 VAC)

Power Specifications

To review typical system power ratings, use the Power Advisor which is available via the online tool located at:

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

Click on the system of interest. Example: DL20 Gen10 Plus - Follow the instructions of the next screens.

Power Supply Output (per power supply)

- **Rated Steady-State Power**
290 W Max
- **Maximum Peak Power**
366 W within 10 seconds



Technical Specifications

500W/800W Redundant Power Supply

Input Requirements (per power supply)

Rated Line Voltage

- 100 to 120 VAC
- 200 to 240 VAC

BTU Rating

Maximum

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

Power Supply Output (per power supply)

Rated Steady-State Power

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

Maximum Peak Power

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

System Inlet Temperature

- **Standard Operating Support**

10° to 35°C (50° to 95°F) at sea level with an altitude derating 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. The maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating above 30°C (86°F).

- **Extended Ambient Operating Support**

For approved hardware configurations, the supported system inlet range is 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 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>

- **Non-operating**

-30°C to 60°C (-22°F to 140°F) Maximum rate of change is 20°C/hr (36°F/hr).

Relative Humidity (non-condensing)

- **Operating**

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

- **Non-operating**

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



Technical Specifications

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)

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>

For information on the HPE Smart Array Controller please refer to their [QuickSpecs](#)

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

Configuration SKU	P44112-B21	P44113-B21	P44114-B21	P44115-B21
LWAd	4.3 B	4.3 B	4.3 B	4.3 B
LpAm	29 dBA	29 dBA	30 dBA	30 dBA
Operating				
LWAd	4.3 B	4.4 B	4.3 B	4.4 B
LpAm	29 dBA	26 dBA	30 dBA	29 dBA

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.



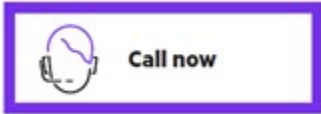
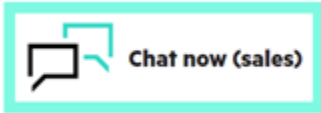
Summary of Changes

Date	Version History	Action	Description of Change
11-Dec-2023	Version 19	Changed	Pre-configured Models Section was updated.
04-Dec-2023	Version 18	Changed	HPE Services Rebranding
13-Nov-2023	Version 17	Changed	Pre-configured Models Section was updated.
06-Nov-2023	Version 16	Changed	Standard Features and Core Options sections were updated.
05-Sep-2023	Version 15	Changed	Reviewed and Updated Content
10-Jul-2023	Version 14	Changed	Reviewed and Updated Content
05-Jun-2023	Version 13	Changed	Standard Features and Configuration Information sections were updated.
01-May-2023	Version 12	Changed	Optional Features and Additional Options sections were updated.
03-Apr-2023	Version 11	Changed	Pre- Configured Models section was updated.
13-Mar-2023	Version 10	Changed	Standard Features, Pre- Configured Models and Core Options sections were updated.
10-Jan-2023	Version 9	Changed	Configuration Information and Core Options sections were updated. Obsolete SKU was removed.
05-Dec-2022	Version 8	Changed	Standard Features and Core Options sections were updated.
07-Nov-2022	Version 7	Changed	Optional Features, Configuration Information and Core Options sections were updated. Obsolete SKU was removed.
15-Aug-2022	Version 6	Changed	Standard Features and Core Options sections were updated.
01-Aug-2022	Version 5	Changed	Standard Features, Configuration Information and Core Options sections were updated. Obsolete SKU was removed.
05-Jul-2022	Version 4	Changed	Core Option section was updated. Obsolete SKUs were removed
06-Jun-2022	Version 3	Changed	Standard Features, Core Options and Additional Options sections were updated.
04-Apr-2022	Version 2	Changed	Overview, Standard Features, Core Options, Additional Options and Memory sections were updated.
07-Mar-2022	Version 1	New	New QuickSpecs.



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