

Overview

HPE ProLiant DX4200 Gen10 server

Are you looking for a 2U ultra-dense and rack-scale system providing the right balance of capacity, performance, and security for your data storage intensive workloads?

The HPE ProLiant DX4200 Gen10 server along with Nutanix provide a global partnership to deliver hyper-converged solutions in an on premise appliance or through the HPE GreenLake consumption model. This offering will leverage Nutanix's free AHV hypervisor and Nutanix Enterprise Cloud software to provide customers with a pre-integrated and optimized solution that dramatically lowers total cost of ownership and accelerates operational productivity.

The HPE ProLiant DX4200 Gen10 server offers an architecture optimized for Big Data Analytics, Software-Defined Storage, backup and archive, and other data storage intensive workloads. Its unique, easily serviceable 2U design saves data center space with up to 28 LFF or 54 SFF hot-plug drives. It delivers accelerated performance with a superior bandwidth and balanced architecture, Intel Xeon Scalable Processor Family, and NVMe connected SSDs. The focus on security extends from FIPS 140-2 Level 1 validated storage controllers down to the system silicon level, taking full advantage of HPE innovations in firmware protection, malware detection, and recovery. With HPE GreenLake Flex Capacity and HPE Financial Services, you can combine the economic agility benefits of consumption-based IT with the performance and security of on-premise.



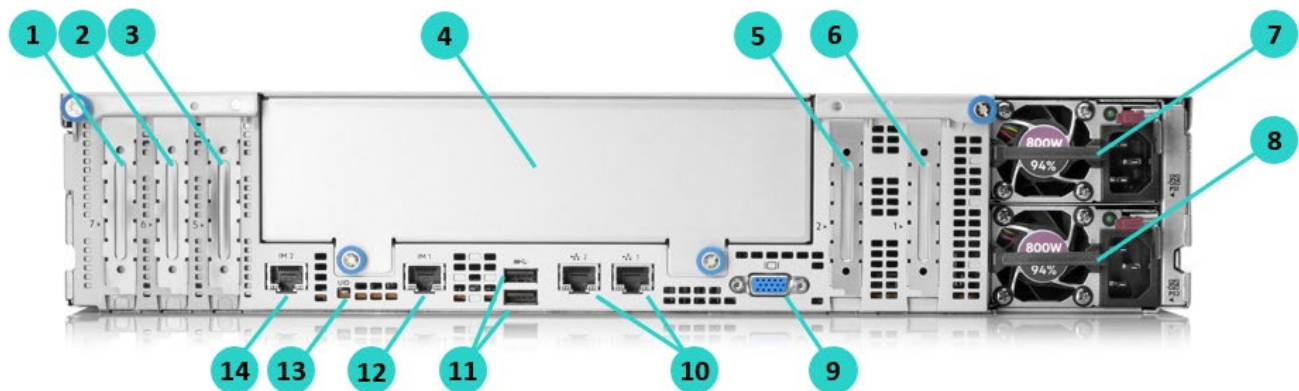
HPE ProLiant DX4200 Gen10 server

Overview



24 LFF Front View

- | | |
|---|---|
| 1. Drive support label | 6. UID button/LED |
| 2. Power On/Standby button and system power LED | 7. USB 2.0 connector |
| 3. Health LED | 8. iLO Service Port |
| 4. NIC status LED | 9. Front LFF SAS/SATA/SSD hot-plug drive bays |
| 5. Front drive health/thermal LED | |

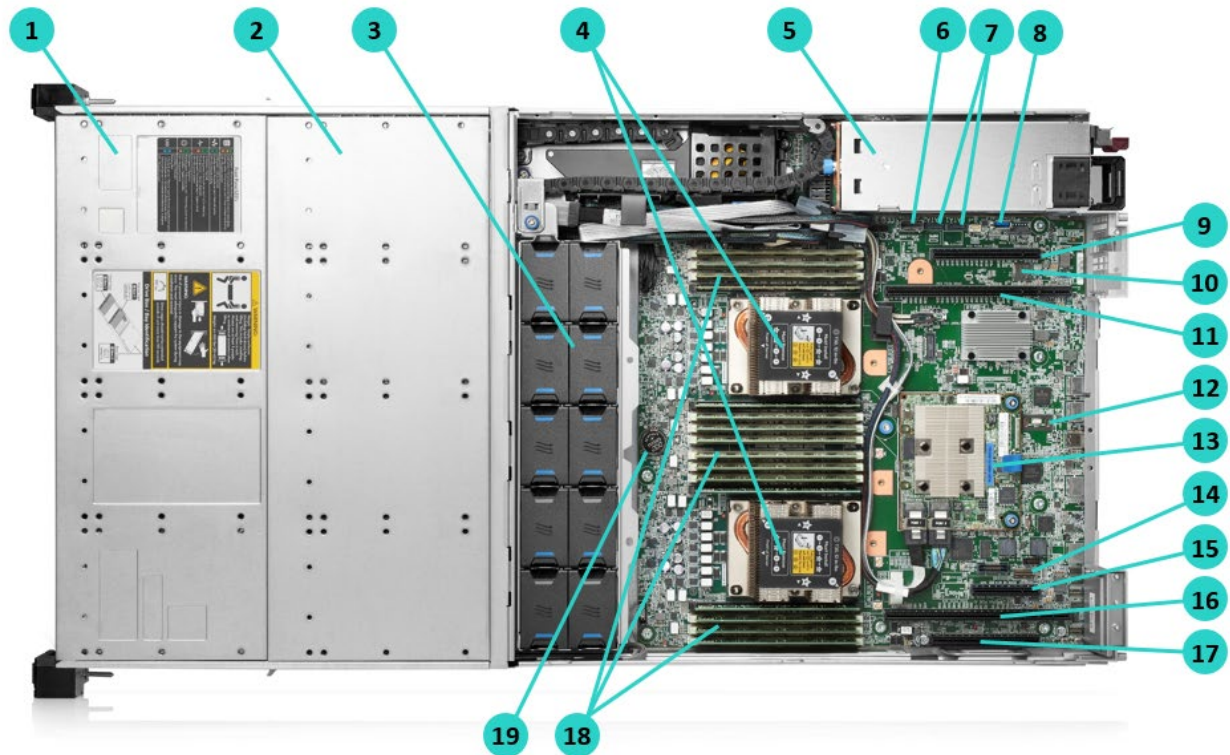


Standard for all Apollo 4200 Gen10 - Rear View

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|---|---|
| 1. PCIe3 x16 slot 7 for low-profile, standup expansion board (Processor 2) | 8. Hot-plug power supply bay 2 (800W shown) |
| 2. PCIe3 x24 slot 6 for low-profile, standup expansion board or NVMe pass-through board (Processor 2) | 9. Video connector |
| 3. PCIe3 x8 slot 5 for low-profile, standup expansion board (Processor 2) | 10. NIC ports (2x 1GbE) |
| 4. Rear drive cage blank (space for rear drive cages upgrade) | 11. USB 3.0 ports |
| 5. PCIe3 x24 slot 2 for low-profile, standup expansion board, riser cage option, or NVMe pass-through board (Processor 1) | 12. iLO Management Port |
| 6. PCIe3 x16 slot 1 for low-profile, standup expansion board (Processor 1) | 13. UID LED |
| 7. Hot-plug power supply bay 1 (800W shown) | 14. iLO Management Port |

Notes: Optional Rear Drive Cages: 6 SAS/SATA SSD (SFF), 6 NVMe SSD (SFF), 4 LFF (only for 24LFF), or 2 SFF + 2 FHLL Riser kit

Overview



Standard for all Apollo 4200 Gen10 - Internal View

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|--|--|
| 1. Front drive bay 1 | 11. PCIe3 x24 slot 2 for low-profile, standup expansion board, riser cage option, or NVMe pass-through board (Processor 1) |
| 2. Front drive bay 2 | 12. TPM 2.0 connector |
| 3. System fans (10 fans shipped as default) | 13. Flexible Smart Array Controller slot (type -a shown) |
| 4. Up to 2 processors (2 processors installed shown) | 14. System maintenance switch |
| 5. Up to 2 power supplies for redundant power | 15. PCIe3 x8 slot 5 for low-profile, standup expansion board (Processor 2) |
| 6. Mini SAS connector | 16. PCIe3 x24 slot 6 for low-profile, standup expansion board or NVMe pass-through board (Processor 2) |
| 7. SATA connectors | 17. PCIe3 x16 slot 7 for low-profile, standup expansion board (Processor 2) |
| 8. Internal USB 3.0 connector | 18. DDR4 DIMM slots (Fully populated 16 DIMMs shown) |
| 9. PCIe3 x16 slot 1 for low-profile, standup expansion board (Processor 1) | 19. System Battery |
| 10. microSD card slot | |



Overview

What's New

- Support for additional Intel® Xeon® Scalable Processor Family, including R series
 - New ProLiant DX4200 Gen10 Platform
 - Qualified platforms / configs recognized by both HPE & Nutanix
 - Factory tuned & optimized HW settings for Nutanix environments
 - Factory pre-installed Nutanix AHV & AOS
 - Supports Intel® Xeon® Scalable Processor Family and HPE DDR4 Smart Memory up to 2933/2666 MT/s
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Platform Information

Form Factor

2U rack

Chassis Types

24 LFF

Notes: Optional Rear Drive Cages: 6 SFF NVMe SSD, 6 SFF SAS/SATA Drives, 4 LFF Drives (only for 24LFF), or 2 SFF Drives + 2 FHHL Riser kit

System Fans

10 system fans shipped as standard



Standard Features

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

The 2nd digit of the processor model number “x1xx” and “x2xx” is used to denote the processor generation (i.e. 1=1st generation and 2=2nd generation)

For more information regarding Intel Xeon processors, please see the following <http://www.intel.com/xeon>.

Notes: This table covers the public Intel offering only.

Gold Processors

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per socket
Gold 6240R Processor	2.4 GHz	24	35.75 MB	165 W	2 @ 10.4 GT/s	2933 MT/s	1 TB
Gold 6226R Processor	2.9 GHz	16	22.00 MB	150 W	2 @ 10.4 GT/s	2933 MT/s	1 TB
Gold 5220R Processor	2.2 GHz	24	35.75 MB	150 W	2 @ 10.4 GT/s	2666 MT/s	1 TB
Gold 5218R Processor	2.1 GHz	20	27.50 MB	150 W	2 @ 10.4 GT/s	2666 MT/s	1TB
Gold 5218 Processor	2.3 GHz	16	22.00 MB	125 W	2 @ 10.4 GT/s	2666 MT/s	1TB

- 2 and 4 socket capable, 2S - 2UPI, 2S - 3UPI, 4S - 3UPI @ 10.4 GT/s.
- 6-Channel DDR4 @ 2933/2666/2400 MT/s (SKU 5122 - supports 2666 MT/s).
- 1st Generation: 768 GB max memory capacity (1.5 TB on select skus).
- 2nd Generation: 1 TB max memory capacity.
- Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512 (1x 512-bit FMA) (SKU 5122 - supports 2x 512 bit FMA).
- 48 lanes PCIe 3.0, advanced RAS.

Silver Processors

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per socket
Silver 4216 Processor	2.1 GHz	16	22.00 MB	100 W	2 @ 9.6 GT/s	2400 MT/s	1TB
Silver 4214R Processor	2.4 GHz	12	16.50 MB	100 W	2 @ 9.6 GT/s	2400 MT/s	1TB
Silver 4214 Processor	2.2 GHz	12	16.50 MB	85 W	2 @ 9.6 GT/s	2400 MT/s	1TB

- 2 socket capable, 2S - 2UPI @ 9.6 GT/s.
- 1st Generation: 6-Channel DDR4 @ 2400 MT/s, 768 GB max memory capacity.
- 2nd Generation: 6-Channel DDR4 @ 2400 MT/s, 1TB max memory capacity.
- Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512 (1x 512-bit FMA).
- 48 lanes PCIe 3.0, standard RAS.

Chipset

Intel C621 Chipset

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

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



Standard Features

System Board

HPE ProLiant XL420 Gen10 Server

As a reminder that the DX 4200 Gen10 Server offers familiar management tools, the motherboard carries a ProLiant name.

In boot-up, the “HPE ProLiant XL420 Gen10 Server” name will appear.

The official product name remains HPE ProLiant DX4200 Gen10 server, while the motherboard name is “HPE ProLiant XL420 Gen10 Server”

Memory

Type		HPE DDR4 Smart Memory Registered (RDIMM), Load Reduced (LRDIMM)
DIMM Slots Available	16	8 DIMM slots per processor, 6 channels per processor, 2-1-1 deployment
Maximum capacity (LRDIMM)	2.0 TB	16 x 128 GB LRDIMM @ 2933 MT/s
Maximum capacity (RDIMM)	1.0 TB	16 x 64 GB RDIMM @ 2933 MT/s

Notes:

- Maximum memory per socket is dependent on processor selection. Processors supporting 1.5 TB per CPU is indicated by the “M” in the processor model names (i.e. 8160M).
- Mixing of RDIMM and LRDIMM memory is not supported.
- For General Server Memory Population Rules and Guidelines for Gen10 see details here:
<http://www.hpe.com/docs/memory-population-rules>

Memory Protection

Advanced ECC

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

Online Spare

Memory online spare mode detects a rank that is degrading and switches operation to the spare rank.

Expansion Slots

Default Expansion Slots					
Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Form Factor
1	PCIe 3.0	x16	x16	CPU1	Low Profile
2	PCIe 3.0	x24	x24	CPU1	Low Profile
5	PCIe 3.0	x8	x8	CPU2	Low Profile
6	PCIe 3.0	x24	x24	CPU2	Low Profile
7	PCIe 3.0	x16	x16	CPU2	Low Profile
2 SFF + 2 FHHL Riser Kit					
Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Form Factor
3	PCIe 3.0	x16	x16	CPU 1	Full-height; half length
4	PCIe 3.0	x8	x8	CPU 1	Full-height; half length

Notes: If 2 SFF + 2 FHHL Riser Kit is installed, the PCIe slot 2 will be unavailable due to occupation of the riser.



Standard Features

Storage Controllers

Software RAID

- HPE Smart Array S100i SR Gen10 SW RAID
- HPE Smart Array S100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.

Notes:

- HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled.
- The S100i supports windows only.
- 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/lrrib/>

Essential RAID Controllers

HPE Smart Array E208i-a SR G10 LH Controller

Performance RAID Controllers

HPE Smart Array P408i-p SR Gen10 Controller

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

Internal Storage Devices

Hard Drives

None ship standard

Maximum Storage

Storage	Capacity	Configuration
Hot Plug LFF SAS HDD	392 TB	24 + 4 x 14 TB (with rear drive cage option)
Hot Plug LFF SATA HDD	392 TB	24 + 4 x 14 TB (with rear drive cage option)
Hot Plug LFF SAS SSD	107.52 TB	24 + 4 x 3.84 TB (with rear drive cage option)
Hot Plug LFF SATA SSD	53.76 TB	24 + 4 x 1.92 TB (with rear drive cage option)
Hot Plug SFF NVMe PCIe SSD (Rear drive cage only)	92.16 TB	6 x 15.36 TB NVMe

Notes:

- SFF NVMe PCIe SSD is only supported in the optional rear drive cage
- Only 1 optional rear drive cage can be installed per server

Power Supply

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

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

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

- Available in 94% efficiency.
- 1600W Power supplies only support high line voltage (200 VAC to 240 VAC).

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



Standard Features

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

Video	1 Rear - VGA port
Network Ports	2x 1GbE embedded NIC
iLO Remote Mgmt Port	2x 1 Gb Dedicated
MicroSD Slot	1 MicroSD slot
Notes: The MicroSD slot is not hot-pluggable, please power down server before removal.	
USB 2.0	1 front (standard on all chassis types)
USB 3.0	Up to 3 total: 2 rear, 1 internal

Operating Systems and Virtualization Software

- Nutanix Acropolis Operating System (AOS): Version 5.10.5 and higher
- Nutanix Acropolis Hypervisor (AHV): Version 2017030.279 and higher
- VMware vSphere: Version 6.5 U2

Notes:

- The latest version of AOS and AHV are pre-installed in each server at the factory. vSphere must be installed separately.
- For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server.

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

Industry Standard Compliance

- ACPI 6.1 Compliant
- PCIe 3.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- USB 3.0 Compliant
- USB 2.0 Compliant
- SMBIOS 3.1
- UEFI 2.6 (Unified Extensible Firmware Interface Forum)
- Redfish API
- IPMI 2.0
- Secure Digital 4.0
- TPM 2.0 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: <http://www.hpe.com/servers/ashrae>.



Standard Features

Graphics

Integrated 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 DDR3 with ECC protection

HPE Server UEFI/Legacy ROM

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

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

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

- Secure Boot and Secure Start enable for enhanced security
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- PXE boot support for IPv6 networks
- Workload Profiles for simple performance optimization
- UEFI Boot Mode only:
- TPM 2.0 Support
- NVMe Boot Support
- Platform Trust Technology (PTT) can be enabled.
- iSCSI Software Initiator Support.
- HTTP/HTTPs Boot support as a PXE alternative.
- Boot support for option cards that only support a UEFI option ROM

Notes:

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

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>.

Server Utilities

Active Health System

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

Active Health System Viewer

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

Smart Update

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

iLO Amplifier Pack

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

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

HPE iLO Mobile Application

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

RESTful Interface Tool

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

Scripting Tools

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



Standard Features

HPE OneView Standard

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

HPE Systems Insight Manager (HPE SIM)

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

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
- 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 option
- Bezel Locking Kit

Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE 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 through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: <http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/>.



Standard Features

Server Management

HPE iLO Advanced

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

HPE iLO Advanced Premium Security Edition

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

HPE OneView Advanced

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

HPE Insight Cluster Management Utility (CMU)

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

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 workload. Some UPSs include options for remote management and extended runtime modules so your critical dense data center is covered in power outages.

HPE KVM Solutions include a console and switches designed to work with your server and IT equipment reliably. We've got a cost-effective KVM switch for your first rack and multiple connection IP switches with remote management and security capabilities to keep your data center rack up and running.

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



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/completecure>

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

www.hpe.com/services



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.
- 4. Some options may not be integrated at the factory. Contact your local sales representative for additional information.

Step 1: Base Configuration

CTO Server	24 LFF
SKU Number	P22358-B21
Processor	Not included as standard
DIMM Slots	16-DIMM slots
Storage Controller	At least one type i-a controller needs to be installed for the front drives Choice of HPE modular Smart Array and PCIe plug-in controller up to three per server Embedded SW RAID (S100i) for M.2 or rear drive cages only
PCIe	5 PCIe slots (2 x24 LP / 2 x16 LP / 1 x8 LP)
Drive Cage - included	24 LFF - SAS/SATA Optional: 6 SAS/SATA, 6 NVMe, 4 LFF, or 2 SFF + 2 FHHL Riser rear drive cage kits
Network Controller	HPE 1Gb Ethernet 2-Port 332i Adapter plus stand up card
Fans	10 system fans shipped as default
Management	HPE iLO with Intelligent Provisioning (standard) Optional: iLO Advance and OneView
USB	Front: 1 USB 2.0 + iLO service port Rear: 2 USB 3.0 Internal: 1 USB 3.0

Step 2

Step2a: Choose Processor Options

Please select one –L21 processor required below.

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

For example: first processor, select P08054-L21 then for second processor, select P08054-B21.

Notes:

- Maximum memory capacity per processor is dependent on processor models. All processors support up to 768 GB max memory per processor except “M” model processors will support up to 1.5 TB max memory per processor.
- Mixing of 2 different processor models are NOT allowed.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

Description

SKU

Processor Option Kits

Intel Xeon-Gold

Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor Kit for HPE ProLiant DX4200 Gen10 P22522-L21

Intel Xeon-Silver

Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor Kit for HPE ProLiant DX4200 Gen10 P22524-L21

Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) FIO Processor Kit for HPE ProLiant DX4200 Gen10 P22526-L21



Configuration Information

Step 2b: Choose Memory Options

Please select one or more memory from below.

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

<https://www.hpe.com/docs/memory-population-rules>

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

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

Notes:

- Maximum memory capacity per processor is dependent on processor model selection or limitation.
- Maximum memory speed is dependent on processor model selection or limitation.

Description

SKU

Registered DIMMs (RDIMMs)

HPE DX 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart FIO Memory Kit	P18450-B21
HPE DX 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart FIO Memory Kit	P18449-B21

Step 2c: Choose Power Supplies

Please select one or two power supplies from below.

Notes: Mixing of 2 different power supplies are NOT allowed.

HPE Flex Slot Power Supplies

HPE DX 800W Flex Slot Platinum Hot Plug Low Halogen FIO Power Supply Kit	P18223-B21
HPE DX 800W Flex Slot Titanium Hot Plug Low Halogen FIO Power Supply Kit	P18224-B21
HPE DX 1600W Flex Slot Platinum Hot Plug Low Halogen FIO Power Supply Kit	P18222-B21

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

Step 3: Choose Additional (FIO) Factory Integratable Options

Each of the following may be selected if desired at time of factory integration

HPE DX Trusted Platform Module 2.0 Gen10 FIO Option Kit	P17811-B21
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Notes: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.



Core Options

Description	SKU
Rear Drive Cage Controller Mode	
HPE 2nd Cage FIO Controller Mode for Rear Storage	813546-B21
Notes:	
– When this SKU is selected, the rear drive cage will be connected to front 2nd drive bay and under the same controller as the front 2nd drive bay.	
– Mixed drive form factor is not supported. When this SKU is selected, the form factor of the rear drive and the front 2nd drive bay has to be the same (all SFF or all LFF).	
HPE Software RAID FIO Controller Mode for Rear Storage	P09655-B21
Notes: When this SKU is selected, the rear drive cage will be connected to onboard S100i SW RAID controller.	
HPE Smart Array E/P SR FIO Controller Mode for Rear Storage	P09656-B21
Notes: When this SKU is selected, the rear drive cage will be connected to independent type i-p controller.	
HPE NVMe CPU2 x6 FIO Controller Mode for Rear Storage	P09657-B21
Notes: When this SKU is selected, all 6 SFF NVMe SSDs will be connected to processor 2 through PCIe slot 6.	
HPE NVMe CPU1 x4/CPU2 x2 FIO Controller Mode for Rear Storage	P09658-B21
Notes: When this SKU is selected, 4 SFF NVMe SSDs will be connected to processor 1 through PCIe slot 2 and 2 SFF NVMe SSDs will be connected to processor 2 through PCIe slot 6.	
Security	
HPE DX Trusted Platform Module 2.0 Gen10 FIO Option Kit	P17811-B21

HPE Processors

Please select one –L21 processor required above.

For second processor, please select the same processor model with –B21 from Core Options – HPE Processors section below. For example: first processor, select 876099-L21 then for second processor, select 876099-B21.

Notes:

- Maximum memory capacity per processor is dependent on processor models. All processors support up to 768 GB max memory per processor except “M” model processors will support up to 1.5 TB max memory per processor.
- Mixing of 2 different processor models are NOT allowed.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

Intel Xeon-Gold

Intel Xeon-Gold 6240R 2.4GHz 24-core 165W FIO2 Processor Kit for HPE ProLiant DX4200 Gen10	P38466-B21
Intel Xeon-Gold 6226R 2.9GHz 16-core 150W FIO2 Processor Kit for HPE ProLiant DX4200 Gen10	P38464-B21
Intel Xeon-Gold 5220R 2.2GHz 24-core 150W FIO2 Processor Kit for HPE ProLiant DX4200 Gen10	P38462-B21
Intel Xeon-Gold 5218R 2.1GHz 20-core 125W FIO2 Processor Kit for HPE ProLiant DX4200 Gen10	P38461-B21
Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO2 Processor Kit for HPE ProLiant DX4200 Gen10	P22522-B21

Intel Xeon-Silver

Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO2 Processor Kit for HPE ProLiant DX4200 Gen10	P22524-B21
Intel Xeon-Silver 4214R 2.4GHz 12-core 100W FIO2 Processor Kit for HPE ProLiant DX4200 Gen10	P38463-B21
Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) FIO2 Processor Kit for HPE ProLiant DX4200 Gen10	P22526-B21



Core Options

HPE Memory

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

<https://www.hpe.com/docs/memory-population-rules>

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

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

Notes:

- Maximum memory capacity per processor is dependent on processor model selection or limitation.
- Maximum memory speed is dependent on processor model selection or limitation.

Description

SKU

HPE DDR4 Memory

Registered DIMMs (RDIMMs)

HPE DX 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart FIO Memory Kit P18450-B21

- (Standalone: P00924-B21)

HPE DX 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart FIO Memory Kit P18449-B21

- (Standalone: P00922-B210)

Notes: For General Server Memory Population Rules and Guidelines for Gen10 see details here:

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

Description

SKU

Ethernet adapters

25 Gigabit Ethernet adapters

HPE DX Ethernet 10/25Gb 2-port 640SFP28 FIO Adapter P18462-B21

- (Standalone: 817753-B21)

10 Gigabit Ethernet adapters

HPE DX Ethernet 10Gb 2-port 562T FIO Adapter P18456-B21

- (Standalone: 817738-B21)

HPE DX Ethernet 10Gb 2-port 562SFP+ FIO Adapter P18455-B21

- (Standalone: 727055-B21)

1 Gigabit Ethernet adapters

HPE DX Ethernet 1Gb 4-port 366T FIO Adapter P18460-B21

- (Standalone: 811546-B21)

HPE Power Supplies

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

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](#).



Core Options

HPE Flex Slot Platinum Hot-plug Power supplies

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	830272-B21
Notes: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).	
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B21
Notes: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
Notes: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	
HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-B21
Notes: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.	
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
Notes: Flex Slot -48VDC power supplies support power efficiency of up to 94%.	



Additional Options

Description

SKU

HPE Security

HPE Trusted Platform Module 2.0 Gen10 Option

864279-B21

Notes:

- HPE Trusted Platform Module 2.0 option works with Gen10 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.
- HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

HPE Storage Controllers

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

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

HPE Flexible Smart Array Controllers

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

869079-B21

HPE Smart Array Controllers

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

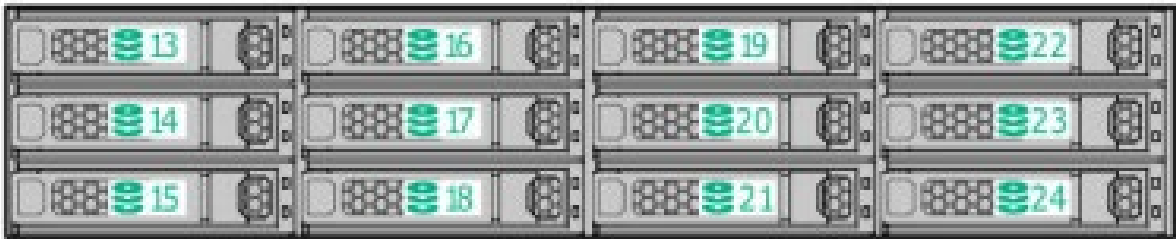
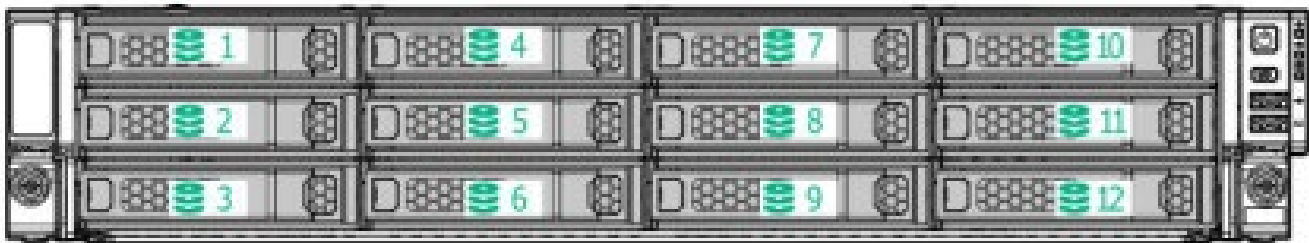
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For the complete listing of Fibre Channel Converged Network Adapters please see:

<https://www.hpe.com/us/en/product-catalog/servers/adapters/pip.models.hpe-storefabric-converged-networkadapters.4118472.html>



Storage



24LFF hot-plug front drive numbering



Technical Specifications

System Unit

Dimensions (Height x Width x Depth)

- 8.75 x 44.80 x 82.55 cm
- 3.44 x 17.63 x 32.50 in

Weight (approximate)

- **Minimum**
22.34 kg
49.25 lb
- **Maximum.**
40.60 kg
89.51 lb

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 VAC) for China Only

Power Supply Output (per power supply)

- **Rated Steady-State Power**
For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VDC) for China only
For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
- **Maximum Peak Power**
For 1600W Power Supply: 1600W (at 200 to 240 1VAC), 1600W (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 of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.

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

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

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



Technical Specifications

Extended Ambient Operating Support

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

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

System performance may be reduced if operating in the extended ambient operating range or with a fan fault.

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.

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).

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			
	Entry	Base	Performance
Idle			
LWAd	5.1 B	5.1 B	5.2 B
LpAm	35 dBA	35 dBA	36 dBA
Operating			
LWAd	5.3 B	5.2 B	5.9 B
LpAm	36 dBA	38 dBA	45 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.



Technical Specifications

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>

HPE Smart Array

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

Environment-friendly Products and Approach - End-of-life Management and Recycling

Hewlett Packard Enterprise offers **end-of-life product return, trade-in, and recycling programs**, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the **Hewlett Packard Enterprise web site**. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.



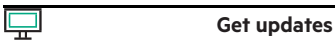
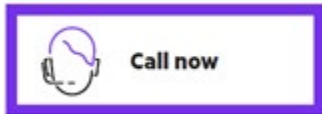
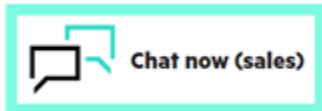
Summary of Changes

Date	Version History	Action	Description of Change
18-Dec-2023	Version 5	Changed	HPE Services Rebranding
15-Nov-2021	Version 4	Changed	Core Options and Service and Support sections were updated. Obsolete SKUs were removed.
07-Dec-2020	Version 3	Changed	Overview, Standard Features and Core Options sections were updated.
06-Jul-2020	Version 2	Changed	QuickSpecs layout was updated and Branding Refresh was applied
03-Feb-2020	Version 1	New	New QuickSpecs



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Contact our presales specialists.



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

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