Shape the Future of QuickSpecs - Your Input Matters

HPE ProLiant DL145 Gen11 QuickSpecs

Ready to Experience Exceptional Performance, Affordability, and Versatility with HPE's Latest Edge Computing Server Solution?

HPE ProLiant DL145 Gen11 server is a 2U, single processor, robust edge computing server designed to cater to the needs of Retail, Manufacturing, Telecommunications, and various other industries. It offers a compelling alternative to traditional servers with its sleek design, affordable pricing, and quiet operation.

Key Features

Powered by the 4th generation AMD® EPYC™ 8004 Zen4c architecture, this server provides up to 64 energy-efficient cores, PCIe Gen5 speed, and high-performance EDSFF storage. It can operate continuously in temperatures ranging up to 55°C and withstand high-dust and high-vibration environments. It is engineered for today's hybrid world, allowing enterprises to virtualize traditional IT applications to power their businesses and accelerate AI success.

Get Robust Edge Processing Power with a Small Server Footprint

The HPE ProLiant DL145 Gen11 reduces the reliance on cloud infrastructure by tackling a variety of low-latency workloads with efficient processing powered by AMD Siena Processors. The server supports up to 64 cores and offers support for 3x single-wide GPUs or 1x double-wide GPU, customizing its performance for edge workloads while simultaneously delivering more energy efficiency through new EDSFF performance drives. Additionally, the HPE Integrated Lights Out and Compute Ops Management allows for ease of management in a variety of locations. The HPE ProLiant DL145 Gen11 small server footprint puts sustainability efforts top-of-mind for users.

Customized for Diverse Portfolio of Edge Computing Environments

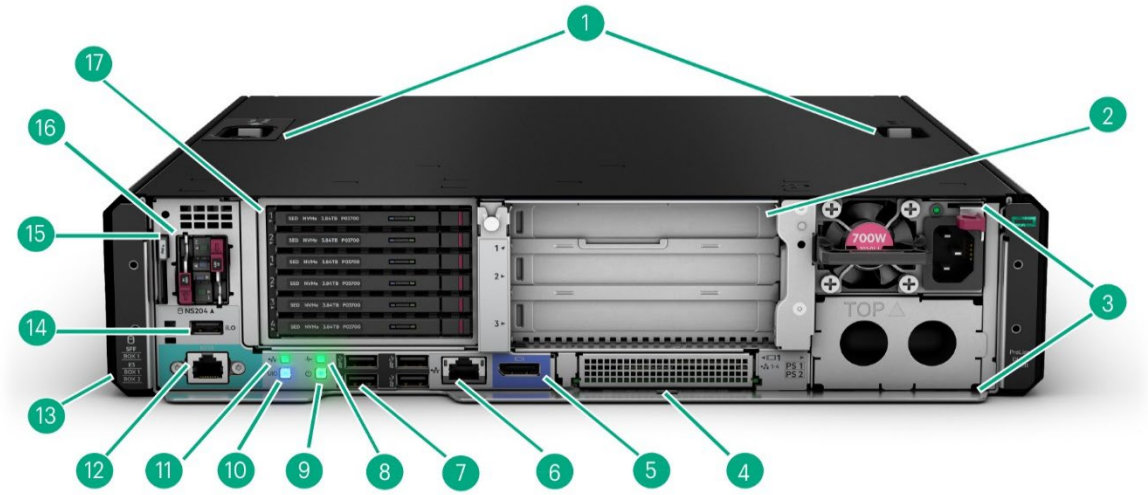
The HPE ProLiant DL145 leverages a 2U form factor, providing better cooling operation, airflow, and quiet acoustics. Measuring approximately 15 inches wide and 16 inches deep, the HPE ProLiant DL145 Gen11 can be rack, wall, or desk mounted, providing flexibility for your unique business environment. Designed to accommodate a variety of environmental constraints, this server can handle up to 55°C operating temperature and can withstand moderate to high shocks and vibration. In locations with heavy amounts of dust and debris, the HPE ProLiant DL145 Gen11's large air filter is able to filter out harmful airborne material, keeping your device running efficiently.

Keeping your Data and Property Safe with Enhanced Security Features

Hewlett Packard Enterprise cares about keeping your property and data safe, especially at the edge, where data and property is more vulnerable to attack. The HPE ProLiant DL145 Gen11 has the high-quality security features needed to ensure your peace of mind. Built on the Hewlett Packard Enterprise signature Silicon Root of Trust, Integrated Lights Out 6, IDevID, and Platform Certificates, you can be sure your data is being protected from outside threats. Chassis Intrusion detection with Bezel and Kensington locks keep your device safe from unwarranted theft or intrusions.

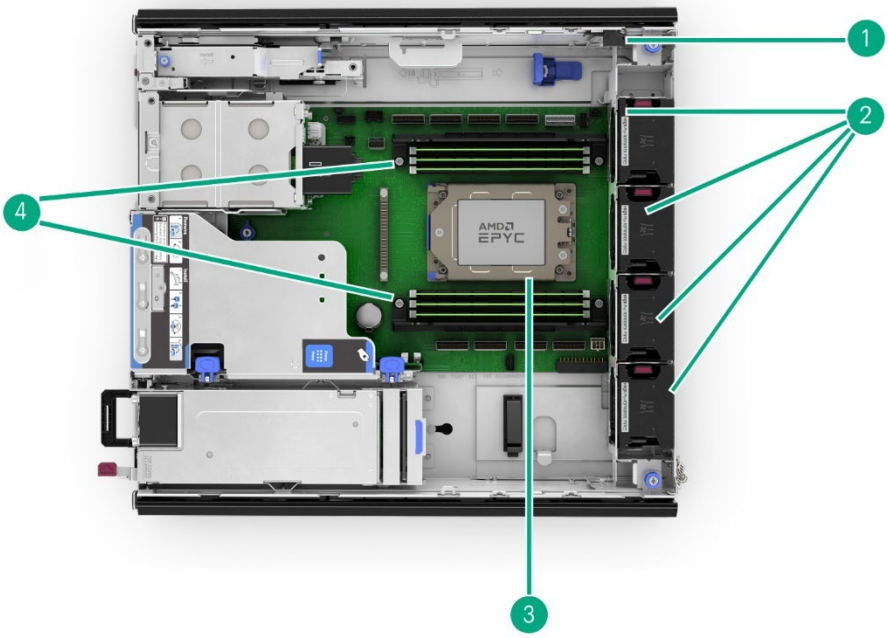
HPE ProLiant DL145 Gen11 Server – Front View (Bezel)

Item	Description		
1.	Bezel Filter		



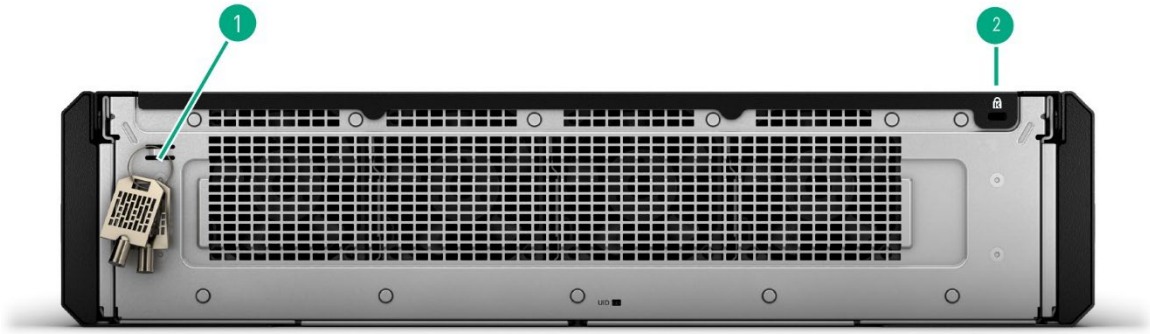
Front View

Item	Description	Item	Description
1.	Quick Removal Access Panel	11.	NIC Status LED
2.	Slot 1: PCIe 5.0 x16 Full Height Full Length (Optional) Slot 2: PCIe 5.0 x16 Full Height Full Length (Optional) Slot 3: PCIe 5.0 x16 Full Height Half Length Base Riser	12.	Optional: Serial Port
3.	Flex-Slot Power Supply 1 Flex-Slot Power Supply 2 (Optional)	13.	Drive Support Label
4.	Slot 21 OCP 3.0 PCIe 5.0 x16	14.	iLO Service Port
5.	DisplayPort	15.	Serial Number/iLO Information Pull Tab
6.	iLO Management Port	16.	Optional: NS204i-u Boot Device
7.	USB 3.2 Gen1 Ports	17.	Drive Bays Option 1: Up to 2 SFF HDD/SSD SAS/SATA/NVMe Option 2: Up to 6 EDSFF E3.S EC1 NVMe (shown)
8.	Health LED		
9.	Power On/Standby Button and System Power LED		
10.	Unit ID Button/LED		



Internal View

Item	Description	Item	Description
1.	Chassis Intrusion Detection Switch	3.	Processor is shown with 2U Heat Sink (Default); Optional 1U Heat Sink
2.	4 Hot Pluggable 2U Standard Fans. Optional: 2U Performance Fans.	4.	6 DDR5 DIMM Slots, 1 DIMM Per Slot



Rear View

Item	Description
1.	Access Panel Keys
2.	Kensington Lock

What's New

- Compact Size, 15-inch wide, 16-inch deep (without Bezel Filter), 20-inch (with Bezel Filter).
- Support for 8 to 64 cores and TDP rating of up to 200W.
- HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device
- Up to 2 SFF HDD/SSD or 6 EDSFF E3.S Drive, Self-Encrypting Drives
- DDR5, 4800 MT/s, 6 DIMM Slots, up to 768 GB memory capacity (using 128 GB DIMMs).
- 3x PCIe Gen 5 slots for GPU/Accelerator and other full-size cards.
- Support for NVIDIA L4 and NVIDIA L40S GPU.
- 1x OCP 3.0 PCIe Gen 5 slot to support various Network Adapters.
- Operating Temp support from -5° to 55° Celsius.
- Bezel with large air filter for dust protection.

- HPE's Silicon Root of Trust, iDevID, Platform Certificates, TPM 2.0.
- Chassis Intrusion detection, Bezel lock, Kensington lock.
- Support for Wall, Desk, 2-post or 4-post rack.
- Up to two redundant AC or DC power supply units.
- iLO Standard with Intelligent Provisioning, HPE OneView Standard, HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced, HPE Compute Ops Management.
- OpenBMC Capable through iLO6 Transfer of Ownership Process.
- HPE NS204i-u v2 960GB NVMe Hot Plug Boot Optimized Storage Device
- HPE NS204i-u v2 960GB NVMe SED Hot Plug Boot Optimized Storage Device
- HPE ProLiant DL145 Gen11 Military Ruggedization FIO Kit (To support MIL-STD-810H)

Platform Information

Form Factor

- 2U rack

Chassis Types

- Front cabled chassis

System Fans

- Standard Fans and Performance Fans

Notes:

- The DL145 Gen11 supports up to 4 fans with fan redundancy built in. One fan rotor failure will place the server in degraded mode, but remain fully functional. Two fan rotor failures could provide a warning and imminent server shutdown.
- Each Fan kit is designated to operate under different configurations. Please refer to the cooling option message in the unique option section for more information.

Heat Sink

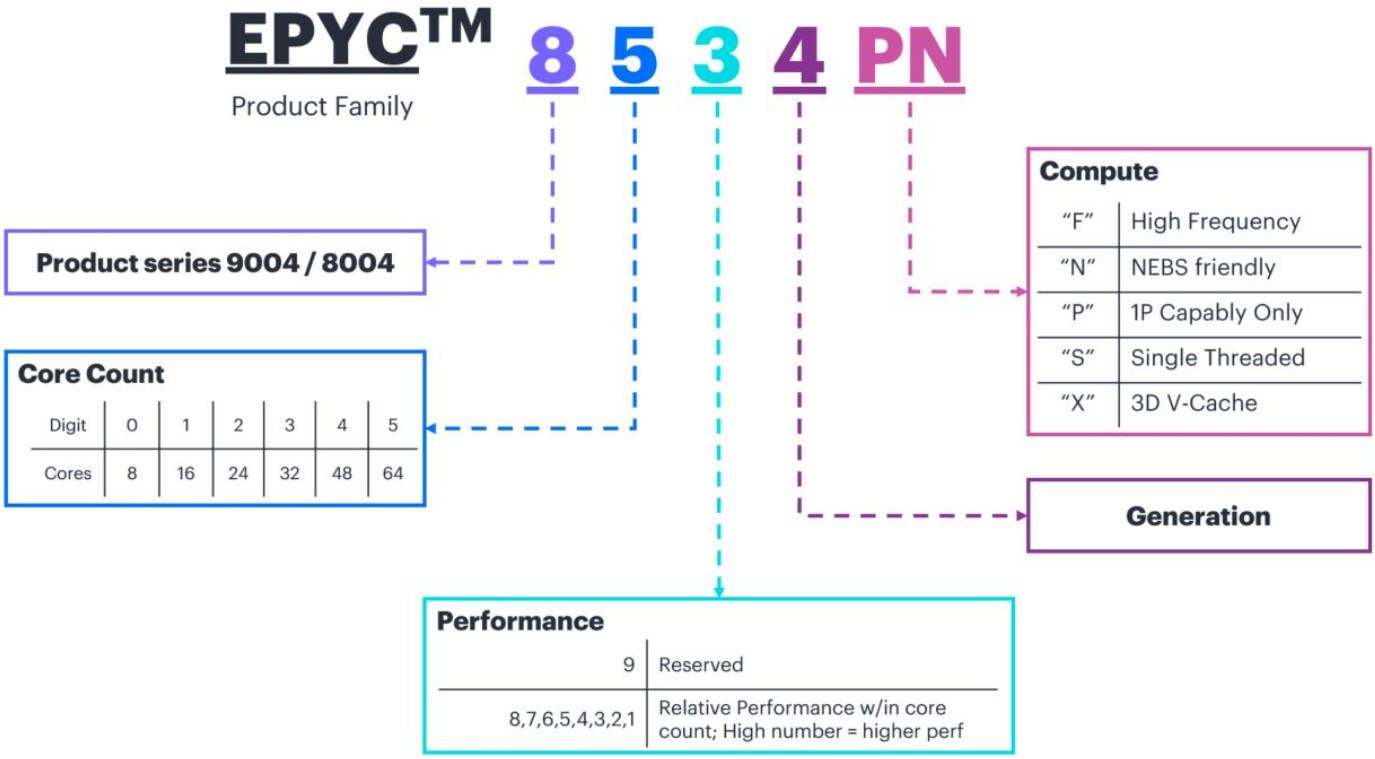
- 2U Heat Sink (Standard)
- Optional 1U Heat Sink

Notes:

- 1U Heat Sink is required for full length card.
- Ambient temperature support is <= 45°C.
- Processor with TDP <= 150W.
- Acoustic mode cannot be selected in the configurator.
- Limitation on certain components (see Operating temperature 1U Heat sink table under configuration section).

Processors – One of the following, depending on the model.

Notes: For more information regarding AMD EPYC™ processors, refer to the following:
https://www.amd.com/en/products/processors/server/epyc.html



EPYC™ Model	Cores	Base Frequency	Max Frequency	DDR5 Channels	Default TDP	L3 Cache (MB)	Memory
8534P	64	2.3 GHz	3.1 GHz	6	200 W	128 MB	4800 MT/s
8434P	48	2.5 GHz	3.1 GHz	6	200 W	128 MB	4800 MT/s
8324P	32	2.65 GHz	3 GHz	6	180 W	128 MB	4800 MT/s
8224P	24	2.55 GHz	3 GHz	6	160 W	64 MB	4800 MT/s
8124P	16	2.45 GHz	3 GHz	6	125 W	64 MB	4800 MT/s
8024P	8	2.4 GHz	3 GHz	6	90 W	32 MB	4800 MT/s
8534PN	64	2 GHz	3.1 GHz	6	175 W	128 MB	4800 MT/s
8434PN	48	2 GHz	3 GHz	6	155 W	128 MB	4800 MT/s
8324PN	32	2.05 GHz	3 GHz	6	130 W	128 MB	4800 MT/s
8224PN	24	2 GHz	3 GHz	6	120 W	64 MB	4800 MT/s
8124PN	16	2 GHz	3 GHz	6	100 W	64 MB	4800 MT/s
8024PN	8	2.05 GHz	3 GHz	6	80 W	32 MB	4800 MT/s

Notes:

– The wattage information indicates the processor's default cTDP (Configurable TDP).

Chipset

No chipset – System on Chip (SoC) design.

On System Management Chipset

HPE iLO 6 ASIC

Notes: Read and learn more in the iLO QuickSpecs.

Memory

Type	HPE DDR5 Smart Memory Registered (RDIMM)
DIMM Slots Available	6 6 DIMM slots per processor, 6 channels per processor, 1 DIMM per channel
Maximum capacity (RDIMM)	768 GB 6 x 128 GB RDIMM @ 4800 MT/s at 1 DPC

Notes:

- LRDIMM and Persistent Memory are not supported.
- For additional information, refer to the HPE DDR5 Smart Memory QuickSpecs
- For the Memory Population Rules and Guidelines with AMD EPYC™ 8004 series processors, see details here: https://www.hpe.com/psnow/doc/a50007481enw

Memory Protection

Advanced ECC

Advanced ECC uses single-device data correction to detect and correct single and all multibit errors that occur within a single DRAM chip.

Online Spare

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

Notes: For more information see our Memory RAS feature technical whitepaper

Expansion Slots

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor
1 (Optional)	PCIe 5.0	X16	X16	Full-height, Full-length slot
2 (Optional)	PCIe 5.0	X16	X16	Full-height, Full-length slot
3 (Default)	PCIe 5.0	X16	X16	Full-height, half-length slot
Slot 21 (Default)	PCIe 5.0	X16	X16	OCP 3.0

Storage Devices

Maximum Storage	Capacity	Configuration
Hot Plug SFF SAS HDD	4.8 TB	2 x 2.4 TB
Hot Plug SFF SATA SSD	15.36 TB	2 x 7.68 TB
Hot Plug SFF NVMe U.3 SSD	30.72 TB	2 x 15.36 TB
Hot Plug EDSFF E3.S NVMe SSD	184.32 TB	6 x 30.72 TB
M.2 NVMe SSD	960 GB	2 x 480 GB (shipped with optional HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device)
M.2 NVMe SSD	1.92 GB	2 x 960 GB (can be shipped with either of two optional modules: (1) HPE NS204i-u v2 960GB NVMe Hot Plug Boot Optimized Storage Device, or (2) HPE NS204i-u v2 960GB NVMe SED Hot-Plug Boot-Optimized Storage Device)

Storage Controllers

Boot Device

- HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device
- HPE NS204i-u v2 960GB NVMe Hot Plug Boot Optimized Storage Device
- HPE NS204i-u v2 960GB NVMe SED Hot Plug Boot Optimized Storage Device
- HPE ProLiant DL145 Gen11 NS204i-u Enablement Kit

Notes:

- Externally accessible but does not occupy a PCIe slot.
- For additional information, refer to the HPE OS Boot Device QuickSpecs

MR Gen11 Storage Controller

- HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller.
- HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller.
- HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller.
- HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller.

For more information on HPE Compute MRGen11 Controllers, please refer to the QuickSpecs.
For more information on the HPE Smart Array E208i-p SR Gen10 Controller, please refer to the QuickSpecs.

Front Interfaces	
Serial Port	1 x RJ45 optional
DisplayPort	1 x Display
Network Port	None. Choice of OCP or stand-up card, supporting a wide range of NIC adapters
HPE iLO Remote Mgmt Port	1 x 1 Gb Dedicated
Front iLO Service Port	1 x standard
USB 3.2 Gen1	4 x standard

Graphics

Integrated Video Standard

- Video modes up to 1920 x 1200 @60Hz (24 bpp).
- 16MB Video Memory.

HPE iLO 6 on system management memory

- 64 MB Flash.
- 8 Gbit DDR 4 with ECC protection.

Bezel Filter

HPE ProLiant DL145 Gen11 FIO Bezel Filter Kit

Notes:

- The Bezel filter kit includes one bezel and one air filter.
- The air filter is a consumable part and is not covered under HPE warranty.
- HPE highly recommends replacing the air filter every three to six months. For detailed maintenance, please refer to the HPE ProLiant DL145 User Guide and Maintenance Service Guide
- Additional replacement air filters are orderable.

HPE ProLiant DL145 Gen11 Filter Replacement Kit

Notes: Includes two individual air filters.

Mounting Options

HPE ProLiant DL145 Gen11 Desk/Wall Mounting Kit.

Notes: The Desk/Wall Mounting Kit allows system installation on a wall/desk instead of a rack.

HPE ProLiant DL145 Gen11 Rack Enablement Kit.

Notes: The rack enablement kit allows system installation in a 2-post and 4-post rack.

HPE ProLiant DL145 Gen11 2-post Rail Kit.

Notes: The 2-post rail kit and rack enablement kit allows system installation in a 2-post rack.

Power Supply

HPE ProLiant 700W Flex Slot -48VDC Hot Plug Low Halogen Reverse Air Flow Power Supply Kit.

Notes: Available in 94% efficiency.

HPE ProLiant 700W Flex Slot Platinum Hot Plug Low Halogen Reverse Air Flow AC Power Supply Kit.

Notes: Available in 94% efficiency.

HPE ProLiant 900W-1000W Flex Slot Titanium Hot Plug Reverse Air Flow AC Power Supply Kit.

Notes: Available in 96% efficiency.

All power supply kits have reverse airflow to support front cabled design of DL145.
HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, and tool-less installation into HPE ProLiant 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.

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.

Operating Systems and Virtualization Software Support for HPE Servers

HPE servers are designed for seamless integration with partner Operating Systems and Virtualization Software. By collaborating closely with our partners, we ensure that their products are optimized, certified, and fully supported within your HPE server environment.
Access the certified and supported servers for each of the OS and Virtualization software: HPE Servers Support & Certification Matrices

Industry Standard Compliance

- ACPI 6.1 Compliant
- PCIe 5.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- VGA/DisplayPort
- USB 3.2 Gen1 Compliant
- USB 2.0 Compliant
- ENERGY STAR® 4.0
- SMBIOS 3.1
- UEFI 2.7
- UEFI Class 3
- Redfish API
- IPMI 2.0
- Secure Digital 2.0
- Advanced Encryption Standard (AES)
- Triple Data Encryption Standard (3DES)
- SNMP v3
- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)
- Active Directory v1.0
- UEFI (Unified Extensible Firmware Interface Forum)
- APML 1.0
- ASHRAE A3/A4
- UL 62368-1

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).

Intelligent Provisioning

Hassle-free server and OS provisioning for one or more servers with Intelligent Provisioning.
Learn more at https://support.hpe.com/hpesc/public/docDisplay?docId=c04465280&docLocale=en_US

iLO RESTful API

iLO RESTful API is DMTF Redfish API implementation 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.

OpenBMC Support

OpenBMC Capable through iLO6 Transfer of Ownership Process.
Learn more at OpenBMC Support

HPE Server UEFI

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secure configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen11 servers have a UEFI Class 3 implementation.

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 3.1 Gen1 Stack.
- Embedded UEFI Shell.
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant.
- PXE boot support for IPv6 networks.
- Workload Profiles for simple performance optimization.
- TPM 2.0 Support.

UEFI Boot Mode only

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

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

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.

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

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 is an on-premises, multi-generational server monitoring, and management solution. HPE OneView Standard can be used for inventory, health monitoring, alerting, and reporting without additional fees. Customers can upgrade their management experience with an HPE OneView Advanced license, all provided by the same tool. Learn more at http://www.hpe.com/info/oneview.

Server Management

HPE iLO Advanced

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

HPE OneView Advanced

HPE OneView Advanced offers a sophisticated level of automation to infrastructure management by taking a template-driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It builds upon the base features of HPE OneView Standard and provides full-featured licenses which can be purchased for managing multiple HPE server generations. To learn more visit http://www.hpe.com/info/oneview.

HPE Compute Ops Management

Transform compute lifecycle management with a cloud experience that delivers greater simplicity, agility, and speed across your entire server environment, wherever it lives. This software-as-a-service tool provides a dashboard with global visibility and intuitive management of server health, security and compliance status to help you easily identify areas that need immediate attention. Users can update tens to thousands of servers faster through intelligent delta-based firmware downloads and on-demand HPE iLO firmware updates.

HPE Compute Ops Management is cloud-native software that is continually updated with new services, features, patches, and firmware packs. The management application resides in GreenLake cloud (access via https://common.cloud.hpe.com) and leverages the GreenLake architecture, security, and unified operations.
A 3-year subscription to HPE Compute Ops Management is added by default when ordering an HPE ProLiant Gen11 rack, tower, or micro server.

For more information, visit the HPE Compute Ops Management QuickSpecs:
https://www.hpe.com/psnow/doc/a50004263enw

Security

- UEFI Secure Boot and Secure Start support.
- Immutable Silicon Root of Trust.
- FIPS 140-3 validation (iLO 6 certification in progress).
- Common Criteria certification (iLO 6 certification in progress).
- Configurable for PCI DSS compliance.
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser.
- Support for Commercial National Security Algorithms (CNSA).
- Tamper-free updates – components digitally signed and verified.
- Secure Recovery – recover critical firmware to a known good state on detection of compromised firmware.
- Ability to rollback firmware.
- Secure erase of NAND/User data.
- Chassis Intrusion detection.
- TPM (Trusted Platform Module) 2.0 option.
- Kensington Lock.
- Bezel Locking Kit option.

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 are available for three years from the date of purchase. Support for software and initial setup is available for 90 days (or about 3 months) from the 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, and 3-Year Onsite support with next business day response. Warranty repairs may be done through 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/support/ProLiantServers-Warranties

Rack and Power Infrastructure

The story may end with servers, but it starts with the foundation that makes compute go – and business grow. We have reinvented our entire portfolio of rack and power products to make IT infrastructure more secure, more practical, and more efficient. In other words, we have created a stronger, smarter, and simpler infrastructure to help you get the most out of your IT equipment. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management, and system access.
HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10-year Warranty to support higher-density computing.

HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°C, include color-coded outlets and load segments, and a low-profile design for optimal access to the rack and support for dense rack environments.

HPE Uninterruptible Power Systems are cost-effective power protection for any type of 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 have 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.

We have a cost-effective KVM switch. Learn more about HPE Racks, PDUs, and UPSs at HPE Rack and Power Infrastructure.

One Config Simple (OCS/SCE)

OCS/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 it 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

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 on 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, 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.
- 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/completecare

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

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, considering 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, considering 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

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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 service options.

Parts and Materials

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

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

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/

AI Powered and Digitally Enabled Support Experience

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GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

- Streamline IT Operations across compute, storage, and networking without the chaos
- Unify and secure data, as you move faster
- Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

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

- Factory Integrated Models must start with a CTO Server.
- FIO indicates that this option is only available as a factory installable option.
- Some options may not be integrated at the factory. Contact your local sales representative for additional information.

Step 1: Acoustics – Quiet Operation

HPE ProLiant DL145 supports a quiet acoustics operating mode designed for noise-sensitive environments. This mode is enabled through an acoustics optimization trigger SKU, which constrains option selection to ensure operation within the available cooling capacity while meeting acoustic targets.

Supported acoustics mode (select one):

Range: 50 to 55dBA at 23°C ± 2°C	HPE ProLiant DL145 Gen11 Optimized Acoustics FIO Configuration	P73006-B21

Notes:

- The configurator limits option selection to meet the acoustic target.
- If the acoustics optimization trigger SKU is not selected, the quiet acoustics mode is disabled.
- Sound pressure levels are declared with ambient temperature ≤25°C.
- Higher ambient temperatures may increase fan speeds and system noise.

The following table lists the options that are supported for low acoustics .

Notes: Options listed as "No Support" in the table below may generate excessive heat under sustained load, resulting in increased fan speed and system noise. Quieter operation may be achievable only under light workloads.

Processor:

DL145 with standard 2U Heat Sink		
Description	**SKU**	**Optimized Acoustics**
AMD EPYC™ 8024P 2.4GHz 8-core 90W Processor for HPE	P69258-B21	Support
AMD EPYC™ 8124P 2.45GHz 16-core 125W Processor for HPE	P69259-B21	Support
AMD EPYC™ 8224P 2.55GHz 24-core 160W Processor for HPE	P69260-B21	Support
AMD EPYC™ 8324P 2.65GHz 32-core 180W Processor for HPE	P69261-B21	Support
AMD EPYC™ 8434P 2.5GHz 48-core 200W Processor for HPE	P69262-B21	No support
AMD EPYC™ 8534P 2.3GHz 64-core 200W Processor for HPE	P69263-B21	No support
AMD EPYC™ 8024PN 2.05GHz 8-core 80W Processor for HPE	P71859-B21	Support
AMD EPYC™ 8124PN 2.0GHz 16-core 100W Processor for HPE	P71862-B21	Support
AMD EPYC™ 8224PN 2.0GHz 24-core 120W Processor for HPE	P71865-B21	Support
AMD EPYC™ 8324PN 2.05GHz 32-core 130W Processor for HPE	P71868-B21	Support
AMD EPYC™ 8434PN 2.0GHz 48-core 155W Processor for HPE	P71871-B21	Support
AMD EPYC™ 8534PN 2.0GHz 64-core 175W Processor for HPE	P71874-B21	Support

Memory:

DL145 with standard 2U Heat Sink		
Description	**SKU**	**Optimized Acoustics**
HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50309-B21	Support
HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50311-B21	Support
HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50312-B21	Support
HPE 96GB (1x96GB) Dual Rank x4 DDR5-4800 CAS-46-45-45 EC8 Registered Smart Memory Kit	P66676-B21	Support
HPE 128GB (1x128GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P69982-B21	Support

GPU:

DL145 with standard 2U Heat Sink		
Description	**SKU**	**Optimized Acoustics**
NVIDIA L4 24GB PCIe Accelerator for HPE	S0K89C	Support* (QTY 1, Limited to location – Slot 2 and 3)

NIC:

DL145 with standard 2U Heat Sink		
Description	**SKU**	**Optimized Acoustics**
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21	Support
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21	Support
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21	Support
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21	Support
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P26264-B21	Support
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21	Support
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21	Support
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21	Support
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21	Support
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P51181-B21	Support
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P26256-B21	Support
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21	Support
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21	Support
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE	P26269-B21	Support
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21	Support
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21	Support

Storage Controller:

DL145 with standard 2U Heat Sink		
Description	**SKU**	**Optimized Acoustics**
HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	P48183-B21	Support
HPE NS204i-u v2 960GB NVMe Hot Plug Boot Optimized Storage Device	P81160-B21	Support
HPE NS204i-u v2 960GB NVMe SED Hot Plug Boot Optimized Storage Device	P81162-B21	Support
HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller	P47785-B21	Support
HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller	P47777-B21	Support
HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller	P58335-B21	Support
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21	Support

Storage – SFF:

DL145 with standard 2U Heat Sink			
Type	**Description**	**SKU**	**Optimized Acoustics**
SFF SAS HDD	HPE 300GB SAS 10K SFF BC MV HDD	P40430-B21	Support
	HPE 600GB SAS 10K SFF BC MV HDD	P53561-B21	Support
	HPE 1.2TB SAS 10K SFF BC MV HDD	P28586-B21	Support
	HPE 1.2TB SAS 10K SFF BC FIPS HDD	P28622-B21	Support
	HPE 1.8TB SAS 10K SFF BC 512e MV HDD	P53562-B21	Support
	HPE 2.4TB SAS 10K SFF BC 512e MV HDD	P28352-B21	Support
	HPE 2.4TB SAS 10K SFF BC 512e FIPS HDD	P28618-B21	Support
SFF SATA	HPE 480GB SATA RI SFF BC MV SSD	P40497-B21	Support
	HPE 960GB SATA RI SFF BC MV SSD	P40498-B21	Support
	HPE 1.92TB SATA RI SFF BC MV SSD	P40499-B21	Support
	HPE 3.84TB SATA RI SFF BC MV SSD	P40500-B21	Support
	HPE 7.68TB SATA RI SFF BC MV SSD	P40501-B21	Support
	HPE 480GB SATA MU SFF BC MV SSD	P40502-B21	Support
	HPE 960GB SATA MU SFF BC MV SSD	P40503-B21	Support
	HPE 1.92TB SATA MU SFF BC MV SSD	P40504-B21	Support
	HPE 480GB SATA RI SFF BC SED 5400P SSD	P58236-B21	Support
	HPE 960GB SATA MU SFF BC SED 5400M SSD	P58244-B21	Support
	HPE 1.92TB SATA MU SFF BC SED 5400M SSD	P58248-B21	Support

Storage – SFF (1/2):

DL145 with standard 2U Heat Sink			
Type	Description	SKU	Optimized Acoustics
SFF NVMe	HPE 960GB NVMe RI SFF BC U.3ST MV SPDM SSD	P64842-B21	Support
	HPE 1.92TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64844-B21	No support
	HPE 3.84TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64846-B21	No support
	HPE 7.68TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64848-B21	No support
	HPE 15.36TB NVMe RI BC U.3ST SPDM MV SSD	P69255-B21	No support
	HPE 1.92TB NVMe RI BC FIPS U.3 CM7 SSD	P61019-B21	Support
	HPE 3.84TB NVMe RI BC FIPS U.3 CM7 SSD	P61027-B21	Support
	HPE 7.68TB NVMe RI BC FIPS U.3 CM7 SSD	P61035-B21	Support
	HPE 1.92TB NVMe RI BC U.3 PM1733a SSD	P50216-B21	Support
	HPE 3.84TB NVMe RI BC U.3 PM1733a SSD	P50219-B21	Support
	HPE 7.68TB NVMe RI BC U.3 PM1733a SSD	P50222-B21	Support
	HPE 15.36TB NVMe RI BC U.3 PM1733a SSD	P50224-B21	Support
	HPE 7.68T NVMe RI SFF BC U.3 PS1010 SSD	P70434-B21	Support
	HPE 15.36T NVMe RI SFF BC U.3 PS1010 SSD	P70436-B21	Support
	HPE 800GB NVMe MU SFF BC U.3ST MV SPDM SSD	P64999-B21	Support
	HPE 1.6TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65007-B21	No support
	HPE 3.2TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65015-B21	No support
	HPE 6.4TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65023-B21	No support
	HPE 1.6TB NVMe MU BC FIPS U.3 CM7 SSD	P61043-B21	Support
	HPE 3.2TB NVMe MU BC FIPS U.3 CM7 SSD	P61051-B21	Support
	HPE 6.4TB NVMe MU BC FIPS U.3 CM7 SSD	P61059-B21	Support

Storage – SFF (2/2):

DL145 with standard 2U Heat Sink			
Type	Description	SKU	Optimized Acoustics
SFF NVMe	HPE 1.6TB NVMe MU SFF BC U.3 PM1735a SSD	P50227-B21	Support
	HPE 3.2TB NVMe MU SFF BC U.3 PM1735a SSD	P50230-B21	Support
	HPE 6.4TB NVMe MU SFF BC U.3 PM1735a SSD	P50233-B21	Support
	HPE 3.2TB NVMe MU SFF BC U.3 PS1030 SSD	P70426-B21	Support
	HPE 6.4TB NVMe MU SFF BC U.3 PS1030 SSD	P70428-B21	Support
	HPE 15.36TB NVMe RI BC U.3ST V2 MV SSD	P84236-B21	Support
	HPE 3.84TB NVMe RI BC U.3 7500 SSD	P84244-B21	Support
	HPE 7.68TB NVMe RI BC U.3 7500 SSD	P84242-B21	Support
	HPE 15.36TB NVMe RI BC U.3 7500b SSD	P84239-B21	Support

Storage – EDSFF (1/4):

DL145 with standard 2U Heat Sink				
Type	**Description**	**SKU**	**Optimized Acoustics (With Controller)**	**Optimized Acoustics (*Direct Attach)**
EDSFF NVMe	HPE 3.84TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63930-B21	Support	Support
	HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63934-B21	Support	Support
	HPE 15.36TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63938-B21	No support	Support
	HPE 30.72TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P79065-B21	No support	No support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57799-B21	No support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57803-B21	No support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57807-B21	No support	Support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77269-B21	Support	Support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77271-B21	Support	Support

Storage – EDSFF (2/4):

DL145 with standard 2U Heat Sink				
Type	Description	SKU	Optimized Acoustics (With Controller)	Optimized Acoustics (*Direct Attach)
EDSFF NVMe	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77273-B21	Support	Support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77275-B21	Support	Support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77262-B21	Support	Support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77265-B21	Support	Support
	HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77267-B21	Support	Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70392-B21	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70395-B21	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70397-B21	Support	Support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70399-B21	Support	Support

Storage – EDSFF (3/4)

DL145 with standard 2U Heat Sink				
Type	**Description**	**SKU**	**Optimized Acoustics (With Controller)**	**Optimized Acoustics (*Direct Attach)**
EDSFF NVMe	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70401-B21	Support	Support
	HPE 12.8TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70403-B21	Support	Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61179-B21	No support	No support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61183-B21	No support	No support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61187-B21	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61191-B21	No support	No support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61195-B21	No support	No support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69234-B21	No support	No support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69237-B21	No support	No support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69239-B21	No support	No support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69546-B21	No support	No support

Storage – EDSFF (4/4)

DL145 with standard 2U Heat Sink				
Type	Description	SKU	Optimized Acoustics (With Controller)	Optimized Acoustics (*Direct Attach)
EDSFF NVMe	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69241-B21	No support	No support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69243-B21	No support	No support
	HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69245-B21	No support	No support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70674-B21	No support	No support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P79122-B21	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70669-B21	No support	No support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70672-B21	No support	No support
	HPE 30.72TB NVMe RI E3S EC1 9550 SSD	P79965-B21	Support	Support

Notes: *For Direct attach, power capping will occur.

Step 2: Operating Temperature

HPE ProLiant DL145 Gen11 supports multiple operational temperature ranges. Selection of an operating temperature configuration determines the supported ambient temperature range and automatically applies the appropriate system thermal controls.

Supported Operating Temperature Configurations:

Standard and Extended Ambient Operation:

HPE ProLiant DL145 Gen11 5C-35C/41F-95F Degrees Operational Temperature FIO Configuration P73015-B21
HPE ProLiant DL145 Gen11 -5C-40C/23F-104F Degrees Operational Temperature FIO Configuration P73018-B21
HPE ProLiant DL145 Gen11 -5C-45C/23F - 113F Degrees Operational Temperature FIO Configuration P73021-B21

High Ambient Temperature Operation:

HPE ProLiant DL145 Gen11 -5C-50C/23F-122F Degrees Operational Temperature FIO Configuration	P73024-B21
HPE ProLiant DL145 Gen11 -5C-55C/23F-131F Degrees Operational Temperature FIO Configuration	P73027-B21
HPE ProLiant DL145 Gen11 High Temperature Support FIO Configuration	P72891-B21

Notes:

- Selection of high ambient temperature configurations may limit available options to maintain system reliability.
- *Extended Ambient Temperature Configuration (BIOS Requirement):
  - When either of the following operating temperature configurations is selected:
    - -5C – 40C/23F–104F, or
    - -5C – 45C/23F–113F
  - Extended Ambient Temperature Support must be enabled in system BIOS.
  - BIOS Configuration Path
    - From the System Utilities screen, select System Configuration
    - Select BIOS/Platform Configuration (RBSU)
    - Navigate to Advanced Options > Fan and Thermal Options
    - Set Extended Ambient Temperature Support to one of the following:
      - Disabled
      - Enabled for 40°C Ambient (ASHRAE Class 3): Enables operation up to 40°C ambient temperature
      - Enabled for 45°C Ambient (ASHRAE Class 4): Enables operation up to 45°C ambient temperature
- **High Ambient Temperature Configuration
  - When either of the following operating temperature configurations is selected:
    - -5°C – 50°C/23°F–122°F, or
    - -5°C – 55°C/23°F–131°F
  - the HPE ProLiant DL145 Gen11 High Temperature Support FIO Configuration trigger SKU must also be selected.

The following table lists the options that are recommended in the Operating Temperature.

Processor (1/2):

DL145 with standard 2U Heat Sink						
Description	**SKU**	**35°C**	**40°C**	**45°C**	**50°C**	**55°C**
AMD EPYC™ 8024P 2.4GHz 8-core 90W Processor for HPE	P69258-B21	Support	Support	Support	Support	Support
AMD EPYC™ 8124P 2.45GHz 16-core 125W Processor for HPE	P69259-B21	Support	Support	Support	Support	Support
AMD EPYC™ 8224P 2.55GHz 24-core 160W Processor for HPE	P69260-B21	Support	Support	Support	Support	Support
AMD EPYC™ 8324P 2.65GHz 32-core 180W Processor for HPE	P69261-B21	Support	Support	Support	Support	No support
AMD EPYC™ 8434P 2.5GHz 48-core 200W Processor for HPE	P69262-B21	Support	Support	Support	No support	No support
AMD EPYC™ 8534P 2.3GHz 64-core 200W Processor for HPE	P69263-B21	Support	Support	Support	No support	No support
AMD EPYC™ 8024PN 2.05GHz 8-core 80W Processor for HPE	P71859-B21	Support	Support	Support	Support	Support
AMD EPYC™ 8124PN 2.0GHz 16-core 100W Processor for HPE	P71862-B21	Support	Support	Support	Support	Support
AMD EPYC™ 8224PN 2.0GHz 24-core 120W Processor for HPE	P71865-B21	Support	Support	Support	Support	Support
AMD EPYC™ 8324PN 2.05GHz 32-core 130W Processor for HPE	P71868-B21	Support	Support	Support	Support	Support

Processor (2/2):

DL145 with standard 2U Heat Sink						
Description	**SKU**	**35°C**	**40°C**	**45°C**	**50°C**	**55°C**
AMD EPYC™ 8434PN 2.0GHz 48-core 155W Processor for HPE	P71871-B21	Support	Support	Support	Support	Support
AMD EPYC™ 8534PN 2.0GHz 64-core 175W Processor for HPE	P71874-B21	Support	Support	Support	Support	Support

Memory:

DL145 with standard 2U Heat Sink						
Description	SKU	35°C	40°C	45°C	50°C	55°C
HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50309-B21	Support	Support	Support	Support	Support
HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50311-B21	Support	Support	Support	Support	Support
HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50312-B21	Support	Support	Support	Support	Support
HPE 96GB (1x96GB) Dual Rank x4 DDR5-4800 CAS-46-45-45 EC8 Registered Smart Memory Kit	P66676-B21	Support	Support	Support	*Partial support	*Partial support
HPE 128GB (1x128GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P69982-B21	Support	Support	Support	*Partial support	*Partial support

Notes: *Not supported with NVIDIA L4 GPU

GPU:

DL145 with standard 2U Heat Sink						
Description	SKU	35°C	40°C	45°C	50°C	55°C
NVIDIA L4 24GB PCIe Accelerator for HPE	S0K89C	Support	Support	Support	Support	No support

Notes: 2U heatsink is not supported with Nvidia L40S GPU

NIC:

DL145 with standard 2U Heat Sink						
Description	**SKU**	**35°C**	**40°C**	**45°C**	**50°C**	**55°C**
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21	Support	Support	Support	Support	Support
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21	Support	Support	Support	Support	Support
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21	Support	Support	Support	Support	Support
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21	Support	Support	Support	Support	Support
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P26264-B21	Support	Support	Support	Support	Support
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21	Support	Support	Support	Support	Support
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21	Support	Support	Support	Support	Support
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21	Support	Support	Support	Support	Support
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21	Support	Support	Support	Support	Support
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P51181-B21	Support	Support	Support	Support	Support
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P26256-B21	Support	Support	Support	Support	Support
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21	Support	Support	Support	Support	Support
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21	Support	Support	Support	Support	Support
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE	P26269-B21	Support	Support	Support	Support	Support
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21	Support	Support	Support	Support	Support
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21	Support	Support	Support	Support	Support

Storage Controller:

DL145 with standard 2U Heat Sink						
Description	SKU	35°C	40°C	45°C	50°C	55°C
HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	P48183-B21	Support	Support	Support	Support	Support
HPE NS204i-u v2 960GB NVMe Hot Plug Boot Optimized Storage Device	P81160-B21	Support	Support	Support	Support	Support
HPE NS204i-u v2 960GB NVMe SED Hot Plug Boot Optimized Storage Device	P81162-B21	Support	Support	Support	Support	Support
HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller	P47785-B21	Support	Support	Support	Support	Support
HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller	P47777-B21	Support	Support	Support	Support	Support
HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller	P58335-B21	Support	Support	Support	Support	Support
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21	Support	Support	Support	Support	Support

Storage - SFF (1/4):

DL145 with standard 2U Heat Sink							
Type	Description	SKU	35°C	40°C	45°C	50°C	55°C
SFF SAS HDD	HPE 300GB SAS 10K SFF BC MV HDD	P40430-B21	Support	Support	Support	Support	No support
	HPE 600GB SAS 10K SFF BC MV HDD	P53561-B21	Support	Support	Support	Support	No support
	HPE 1.2TB SAS 10K SFF BC MV HDD	P28586-B21	Support	Support	Support	Support	No support
	HPE 1.2TB SAS 10K SFF BC FIPS HDD	P28622-B21	Support	Support	Support	Support	No support
	HPE 1.8TB SAS 10K SFF BC 512e MV HDD	P53562-B21	Support	Support	Support	Support	No support
	HPE 2.4TB SAS 10K SFF BC 512e MV HDD	P28352-B21	Support	Support	Support	Support	No support
	HPE 2.4TB SAS 10K SFF BC 512e FIPS HDD	P28618-B21	Support	Support	Support	Support	No support

Storage - SFF (2/4):

DL145 with standard 2U Heat Sink							
Type	Description	SKU	35°C	40°C	45°C	50°C	55°C
SFF SATA	HPE 480GB SATA RI SFF BC MV SSD	P40497-B21	Support	Support	Support	Support	Support
	HPE 960GB SATA RI SFF BC MV SSD	P40498-B21	Support	Support	Support	Support	Support
	HPE 1.92TB SATA RI SFF BC MV SSD	P40499-B21	Support	Support	Support	Support	Support
	HPE 3.84TB SATA RI SFF BC MV SSD	P40500-B21	Support	Support	Support	Support	Support
	HPE 7.68TB SATA RI SFF BC MV SSD	P40501-B21	Support	Support	Support	Support	Support
	HPE 480GB SATA MU SFF BC MV SSD	P40502-B21	Support	Support	Support	Support	Support
	HPE 960GB SATA MU SFF BC MV SSD	P40503-B21	Support	Support	Support	Support	Support
	HPE 1.92TB SATA MU SFF BC MV SSD	P40504-B21	Support	Support	Support	Support	Support
	HPE 480GB SATA RI SFF BC SED 5400P SSD	P58236-B21	Support	Support	Support	Support	Support
	HPE 960GB SATA MU SFF BC SED 5400M SSD	P58244-B21	Support	Support	Support	Support	Support
	HPE 1.92TB SATA MU SFF BC SED 5400M SSD	P58248-B21	Support	Support	Support	Support	Support

Storage - SFF (3/4):

DL145 with standard 2U Heat Sink							
Type	Description	SKU	35°C	40°C	45°C	50°C	55°C
SFF NVMe	HPE 960GB NVMe RI SFF BC U.3ST MV SPDM SSD	P64842-B21	Support	Support	Only DA	No support	No support
	HPE 1.92TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64844-B21	Support	Support	Only DA	No support	No support
	HPE 3.84TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64846-B21	Support	Only DA	No support	No support	No support
	HPE 7.68TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64848-B21	Support	Only DA	No support	No support	No support
	HPE 15.36TB NVMe RI BC U.3ST SPDM MV SSD	P69255-B21	Support	Only DA	No support	No support	No support
	HPE 1.92TB NVMe RI BC FIPS U.3 CM7 SSD	P61019-B21	Support	Support	Support	Support	Only DA
	HPE 3.84TB NVMe RI BC FIPS U.3 CM7 SSD	P61027-B21	Support	Support	Support	Support	Only DA
	HPE 7.68TB NVMe RI BC FIPS U.3 CM7 SSD	P61035-B21	Support	Support	Support	Support	Only DA
	HPE 1.92TB NVMe RI BC U.3 PM1733a SSD	P50216-B21	Support	Support	Support	Support	Only DA
	HPE 3.84TB NVMe RI BC U.3 PM1733a SSD	P50219-B21	Support	Support	Support	Support	Only DA
	HPE 7.68TB NVMe RI BC U.3 PM1733a SSD	P50222-B21	Support	Support	Support	Support	Only DA
	HPE 15.36TB NVMe RI BC U.3 PM1733a SSD	P50224-B21	Support	Support	Support	Support	Only DA
	HPE 7.68T NVMe RI SFF BC U.3 PS1010 SSD	P70434-B21	Support	Support	Support	Support	Only DA
	HPE 15.36T NVMe RI SFF BC U.3 PS1010 SSD	P70436-B21	Support	Support	Support	Support	Only DA
	HPE 800GB NVMe MU SFF BC U.3ST MV SPDM SSD	P64999-B21	Support	Support	Only DA	No support	No support
	HPE 1.6TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65007-B21	Support	Support	Only DA	No support	No support
	HPE 3.2TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65015-B21	Support	Only DA	No support	No support	No support
	HPE 6.4TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65023-B21	Support	No support	No support	No support	No support
	HPE 1.6TB NVMe MU BC FIPS U.3 CM7 SSD	P61043-B21	Support	Support	Support	Support	Only DA
	HPE 3.2TB NVMe MU BC FIPS U.3 CM7 SSD	P61051-B21	Support	Support	Support	Support	Only DA

Storage - SFF (4/4):

DL145 with standard 2U Heat Sink							
Type	**Description**	**SKU**	**35°C**	**40°C**	**45°C**	**50°C**	**55°C**
SFF NVME	HPE 6.4TB NVMe MU BC FIPS U.3 CM7 SSD	P61059-B21	Support	Support	Support	Support	Only DA
	HPE 1.6TB NVMe MU SFF BC U.3 PM1735a SSD	P50227-B21	Support	Support	Support	Support	Only DA
	HPE 3.2TB NVMe MU SFF BC U.3 PM1735a SSD	P50230-B21	Support	Support	Support	Support	Only DA
	HPE 6.4TB NVMe MU SFF BC U.3 PM1735a SSD	P50233-B21	Support	Support	Support	Support	Only DA
	HPE 3.2TB NVMe MU SFF BC U.3 PS1030 SSD	P70426-B21	Support	Support	Support	Support	Only DA
	HPE 6.4TB NVMe MU SFF BC U.3 PS1030 SSD	P70428-B21	Support	Support	Support	Support	Only DA
	HPE 15.36TB NVMe RI BC U.3ST V2 MV SSD	P84236-B21	Support	Support	Support	Support	No support
	HPE 3.84TB NVMe RI BC U.3 7500 SSD	P84244-B21	Support	Support	Support	Support	Only DA
	HPE 7.68TB NVMe RI BC U.3 7500 SSD	P84242-B21	Support	Support	Support	Support	Only DA
	HPE 15.36TB NVMe RI BC U.3 7500b SSD	P84239-B21	Support	Support	Support	Support	Only DA

Notes: DA = Direct Attach

Storage - EDSFF (1/3):

DL145 with standard 2U Heat Sink – With Controller							
Type	Description	SKU	35°C	40°C	45°C	50°C	55°C
			With Controller				
EDSFF NVMe	HPE 3.84TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63930-B21	Support	Support	Support	Support	Support
	HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63934-B21	Support	Support	Support	Support	Support
	HPE 15.36TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63938-B21	Support	Support	Support	Support	No support
	HPE 30.72TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 P5430 SSD	P79065-B21	Support	Support	Support	No support	No support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57799-B21	Support	Support	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57803-B21	Support	Support	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57807-B21	Support	Support	Support	Support	Support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77269-B21	Support	Support	Support	Support	Support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77271-B21	Support	Support	Support	Support	Support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77273-B21	Support	Support	Support	Support	Support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77275-B21	Support	Support	Support	Support	Support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77262-B21	Support	Support	Support	Support	Support

Storage - EDSFF (2/3):

DL145 with standard 2U Heat Sink – With Controller							
Type	Description	SKU	35°C	40°C	45°C	50°C	55°C
			With Controller				
EDSFF NVMe	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77265-B21	Support	Support	Support	Support	Support
	PE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77267-B21	Support	Support	Support	Support	Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70392-B21	Support	Support	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70395-B21	Support	Support	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70397-B21	Support	Support	Support	Support	Support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70399-B21	Support	Support	Support	Support	Support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70401-B21	Support	Support	Support	Support	Support
	HPE 12.8TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70403-B21	Support	Support	Support	Support	Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61179-B21	Support	Support	No support	No support	No support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61183-B21	Support	Support	No support	No support	No support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61187-B21	Support	Support	No support	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61191-B21	Support	Support	No support	No support	No support

Storage - EDSFF (3/3):

DL145 with standard 2U Heat Sink – With Controller							
Type	Description	SKU	35°C	40°C	45°C	50°C	55°C
			With Controller				
EDSFF NVMe	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69546-B21	Support	Support	No support	No support	No support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69241-B21	Support	Support	Support	No support	No support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69243-B21	Support	Support	Support	No support	No support
	HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69245-B21	Support	Support	No support	No support	No support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70674-B21	Support	Support	No support	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70669-B21	Support	Support	No support	No support	No support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70672-B21	Support	Support	No support	No support	No support
	HPE 15.36TB NVMe RI E3S EC1 FIPS CM7 SSD	P79122-B21	Support	Support	No support	No support	No support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61195-B21	Support	Support	No support	No support	No support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69234-B21	Support	Support	Support	No support	No support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69237-B21	Support	Support	Support	No support	No support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69239-B21	Support	Support	No support	No support	No support
	HPE 30.72TB NVMe RI E3S EC1 9550 SSD	P79965-B21	Support	Support	Support	Support	Support

Storage - EDSFF (1/2):

DL145 with standard 2U Heat Sink – Direct Attach							
Type	Description	SKU	35°C	40°C	45°C	50°C	55°C
			*Direct Attach				
EDSFF NVMe	HPE 3.84TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63930-B21	Support	Support	Support	Support	Support
	HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63934-B21	Support	Support	Support	Support	Support
	HPE 15.36TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63938-B21	Support	Support	Support	Support	Support
	HPE 30.72TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 P5430 SSD	P79065-B21	Support	Support	Support	Support	No Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57799-B21	Support	Support	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57803-B21	Support	Support	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57807-B21	Support	Support	Support	Support	Support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77269-B21	Support	Support	Support	Support	Support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77271-B21	Support	Support	Support	Support	Support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77273-B21	Support	Support	Support	Support	Support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77275-B21	Support	Support	Support	Support	Support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77262-B21	Support	Support	Support	Support	Support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77265-B21	Support	Support	Support	Support	Support
	PE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77267-B21	Support	Support	Support	Support	Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70392-B21	Support	Support	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70395-B21	Support	Support	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70397-B21	Support	Support	Support	Support	Support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70399-B21	Support	Support	Support	Support	Support

Storage - EDSFF (2/2):

DL145 with standard 2U Heat Sink – Direct Attach							
Type	Description	SKU	35°C	40°C	45°C	50°C	55°C
			*Direct Attach				
EDSFF NVMe	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70401-B21	Support	Support	Support	Support	Support
	HPE 12.8TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70403-B21	Support	Support	Support	Support	Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61179-B21	Support	Support	Support	No support	No support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61183-B21	Support	Support	Support	No support	No support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61187-B21	Support	Support	Support	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61191-B21	Support	Support	Support	No support	No support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61195-B21	Support	Support	Support	No support	No support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69234-B21	Support	Support	Support	Support	No support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69237-B21	Support	Support	Support	No support	No support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69239-B21	Support	Support	Support	No support	No support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69546-B21	Support	Support	Support	No support	No support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69241-B21	Support	Support	Support	Support	No support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69243-B21	Support	Support	Support	No support	No support
	HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69245-B21	Support	Support	Support	No support	No support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70674-B21	Support	Support	Support	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70669-B21	Support	Support	Support	No support	No support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70672-B21	Support	Support	Support	No support	No support
	HPE 15.36TB NVMe RI E3S EC1 FIPS CM7 SSD	P79122-B21	Support	Support	Support	No support	No support
	HPE 30.72TB NVMe RI E3S EC1 9550 SSD	P79965-B21	Support	Support	Support	Support	Support

Notes: *For Direct attach, power capping will occur.

Processor:

DL145 with 1U Heat Sink				
Description	**SKU**	**35°C**	**40°C**	**45°C**
AMD EPYC™ 8024P 2.4GHz 8-core 90W Processor for HPE	P69258-B21	Support	Support	Support
AMD EPYC™ 8124P 2.45GHz 16-core 125W Processor for HPE	P69259-B21	Support	Support	Support
AMD EPYC™ 8224P 2.55GHz 24-core 160W Processor for HPE	P69260-B21	Support	No support	No support
AMD EPYC™ 8324P 2.65GHz 32-core 180W Processor for HPE	P69261-B21	Support	No support	No support
AMD EPYC™ 8434P 2.5GHz 48-core 200W Processor for HPE	P69262-B21	No support	No support	No support
AMD EPYC™ 8534P 2.3GHz 64-core 200W Processor for HPE	P69263-B21	No support	No support	No support
AMD EPYC™ 8024PN 2.05GHz 8-core 80W Processor for HPE	P71859-B21	Support	Support	Support
AMD EPYC™ 8124PN 2.0GHz 16-core 100W Processor for HPE	P71862-B21	Support	Support	Support
AMD EPYC™ 8224PN 2.0GHz 24-core 120W Processor for HPE	P71865-B21	Support	Support	Support
AMD EPYC™ 8324PN 2.05GHz 32-core 130W Processor for HPE	P71868-B21	Support	Support	Support
AMD EPYC™ 8434PN 2.0GHz 48-core 155W Processor for HPE	P71871-B21	Support	Support	Support
AMD EPYC™ 8534PN 2.0GHz 64-core 175W Processor for HPE	P71874-B21	Support	Support	No support

Memory:

DL145 with 1U Heat Sink				
Description	**SKU**	**35°C**	**40°C**	**45°C**
HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50309-B21	Support	Support	Support
HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50311-B21	Support	Support	Support
HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50312-B21	Support	Support	Support
HPE 96GB (1x96GB) Dual Rank x4 DDR5-4800 CAS-46-45-45 EC8 Registered Smart Memory Kit	P66676-B21	Support	*Partial Support	*Partial Support
HPE 128GB (1x128GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P69982-B21	Support	*Partial Support	*Partial Support

Notes: *Not supported with NVIDIA L40s GPU

GPU:

DL145 with 1U Heat Sink				
Description	**SKU**	**35°C**	**40°C**	**45°C**
NVIDIA L40S 48GB PCIe Accelerator	S2L70C	Support	Support	Support

NIC (1/2):

DL145 with 1U Heat Sink				
Description	**SKU**	**35°C**	**40°C**	**45°C**
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21	Support	Support	Support
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21	Support	Support	Support
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21	Support	Support	Support
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21	Support	Support	Support
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P26264-B21	Support	Support	Support
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21	Support	Support	Support
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21	Support	Support	Support
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21	Support	Support	Support
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21	Support	Support	Support

NIC (2/2):

DL145 with 1U Heat Sink				
Description	**SKU**	**35°C**	**40°C**	**45°C**
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P51181-B21	Support	Support	Support
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P26256-B21	Support	Support	Support
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21	Support	Support	Support
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21	Support	Support	Support
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE	P26269-B21	Support	Support	Support
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21	Support	Support	Support
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21	Support	Support	Support

Storage Controller:

DL145 with 1U Heat Sink				
Description	**SKU**	**35°C**	**40°C**	**45°C**
HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	P48183-B21	Support	Support	Support
HPE NS204i-u v2 960GB NVMe Hot Plug Boot Optimized Storage Device	P81160-B21	Support	Support	Support
HPE NS204i-u v2 960GB NVMe SED Hot Plug Boot Optimized Storage Device	P81162-B21	Support	Support	Support
HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller	P47785-B21	Support	Support	Support
HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller	P47777-B21	Support	Support	Support
HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller	P58335-B21	Support	Support	Support
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21	Support	Support	Support

Storage - SFF (1/3):

DL145 with 1U Heat Sink					
Type	**Description**	**SKU**	**35°C**	**40°C**	**45°C**
SFF SAS HDD	HPE 300GB SAS 10K SFF BC MV HDD	P40430-B21	Support	Support	Support
	HPE 600GB SAS 10K SFF BC MV HDD	P53561-B21	Support	Support	Support
	HPE 1.2TB SAS 10K SFF BC MV HDD	P28586-B21	Support	Support	Support
	HPE 1.2TB SAS 10K SFF BC FIPS HDD	P28622-B21	Support	Support	Support
	HPE 1.8TB SAS 10K SFF BC 512e MV HDD	P53562-B21	Support	Support	Support
	HPE 2.4TB SAS 10K SFF BC 512e MV HDD	P28352-B21	Support	Support	Support
	HPE 2.4TB SAS 10K SFF BC 512e FIPS HDD	P28618-B21	Support	Support	Support
SFF SATA	HPE 480GB SATA RI SFF BC MV SSD	P40497-B21	Support	Support	Support
	HPE 960GB SATA RI SFF BC MV SSD	P40498-B21	Support	Support	Support
	HPE 1.92TB SATA RI SFF BC MV SSD	P40499-B21	Support	Support	Support
	HPE 3.84TB SATA RI SFF BC MV SSD	P40500-B21	Support	Support	Support
	HPE 480GB SATA MU SFF BC MV SSD	P40502-B21	Support	Support	Support
	HPE 960GB SATA MU SFF BC MV SSD	P40503-B21	Support	Support	Support
	HPE 1.92TB SATA MU SFF BC MV SSD	P40504-B21	Support	Support	Support
	HPE 480GB SATA RI SFF BC SED 5400P SSD	P58236-B21	Support	Support	Support
	HPE 1.92TB SATA MU SFF BC SED 5400M SSD	P58248-B21	Support	Support	Support
	HPE 960GB SATA MU SFF BC SED 5400M SSD	P58244-B21	Support	Support	Support
	HPE 7.68TB SATA RI SFF BC MV SSD	P40501-B21	Support	Support	Support

Storage - SFF (2/3):

DL145 with 1U Heat Sink					
Type	Description	SKU	35°C	40°C	45°C
SFF NVMe	HPE 960GB NVMe RI SFF BC U.3ST MV SPDM SSD	P64842-B21	Only DA	No support	No support
	HPE 1.92TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64844-B21	Only DA	No support	No support
	HPE 3.84TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64846-B21	Only DA	No support	No support
	HPE 7.68TB NVMe RI SFF BC U.3ST MV SPDM SSD	P64848-B21	Only DA	No support	No support
	HPE 15.36TB NVMe RI BC U.3ST SPDM MV SSD	P69255-B21	Only DA	No support	No support
	HPE 1.92TB NVMe RI BC FIPS U.3 CM7 SSD	P61019-B21	Support	Support	Support
	HPE 3.84TB NVMe RI BC FIPS U.3 CM7 SSD	P61027-B21	Support	Support	Support
	HPE 7.68TB NVMe RI BC FIPS U.3 CM7 SSD	P61035-B21	Support	Support	Support
	HPE 1.92TB NVMe RI BC U.3 PM1733a SSD	P50216-B21	Support	Support	Support
	HPE 3.84TB NVMe RI BC U.3 PM1733a SSD	P50219-B21	Support	Support	Support
	HPE 7.68TB NVMe RI BC U.3 PM1733a SSD	P50222-B21	Support	Support	Support
	HPE 15.36TB NVMe RI BC U.3 PM1733a SSD	P50224-B21	Support	Support	Support
	HPE 7.68T NVMe RI SFF BC U.3 PS1010 SSD	P70434-B21	Support	Support	Support
	HPE 15.36T NVMe RI SFF BC U.3 PS1010 SSD	P70436-B21	Support	Support	Support
	HPE 800GB NVMe MU SFF BC U.3ST MV SPDM SSD	P64999-B21	Only DA	No support	No support
	HPE 1.6TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65007-B21	Only DA	No support	No support
	HPE 3.2TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65015-B21	Only DA	No support	No support
	HPE 6.4TB NVMe MU SFF BC U.3ST MV SPDM SSD	P65023-B21	Only DA	No support	No support
	HPE 1.6TB NVMe MU BC FIPS U.3 CM7 SSD	P61043-B21	Support	Support	Support
	HPE 3.2TB NVMe MU BC FIPS U.3 CM7 SSD	P61051-B21	Support	Support	Support
	HPE 6.4TB NVMe MU BC FIPS U.3 CM7 SSD	P61059-B21	Support	Support	Support
	HPE 1.6TB NVMe MU SFF BC U.3 PM1735a SSD	P50227-B21	Support	Support	Support
	HPE 3.2TB NVMe MU SFF BC U.3 PM1735a SSD	P50230-B21	Support	Support	Support

Storage - SFF (3/3):

DL145 with 1U Heat Sink					
Type	**Description**	**SKU**	**35°C**	**40°C**	**45°C**
SFF NVMe	HPE 6.4TB NVMe MU SFF BC U.3 PM1735a SSD	P50233-B21	Support	Support	Support
	HPE 3.2TB NVMe MU SFF BC U.3 PS1030 SSD	P70426-B21	Support	Support	Support
	HPE 6.4TB NVMe MU SFF BC U.3 PS1030 SSD	P70428-B21	Support	Support	Support
	HPE 15.36TB NVMe RI BC U.3ST V2 MV SSD	P84236-B21	Support	Support	Support
	HPE 3.84TB NVMe RI BC U.3 7500 SSD	P84244-B21	Support	Support	Support
	HPE 7.68TB NVMe RI BC U.3 7500 SSD	P84242-B21	Support	Support	Support
	HPE 15.36TB NVMe RI BC U.3 7500b SSD	P84239-B21	Support	Support	Support

Notes: DA = Direct Attach.

Storage – EDSFF (1/3):

DL145 with 1U Heat Sink – With Controller					
Type	Description	SKU	35°C	40°C	45°C
			With Controller		
EDSFF NVMe	HPE 3.84TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63930-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63934-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63938-B21	Support	No support	No support
	HPE 30.72TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 P5430 SSD	P79065-B21	No support	No support	No support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57799-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57803-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57807-B21	Support	Support	Support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77269-B21	Support	Support	Support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77271-B21	Support	Support	Support

Storage – EDSFF (2/3):

DL145 with 1U Heat Sink – With Controller					
Type	Description	SKU	35°C	40°C	45°C
			With Controller		
EDSFF NVMe	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77273-B21	Support	No support	No support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77275-B21	Support	No support	No support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77262-B21	Support	Support	Support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77265-B21	Support	Support	Support
	PE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77267-B21	Support	No support	No support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70392-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70395-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70397-B21	Support	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70399-B21	Support	Support	Support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70401-B21	Support	Support	Support
	HPE 12.8TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70403-B21	Support	No support	No support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61179-B21	No support	No support	No support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61183-B21	No support	No support	No support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61187-B21	No support	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61191-B21	No support	No support	No support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61195-B21	No support	No support	No support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69234-B21	No support	Support	Support

Storage – EDSFF (3/3):

DL145 with 1U Heat Sink – With Controller					
Type	Description	SKU	35°C	40°C	45°C
			With Controller		
EDSFF NVMe	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69237-B21	No support	Support	Support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69239-B21	No support	Support	No support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69546-B21	No support	Support	No support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69241-B21	No support	Support	Support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69243-B21	No support	Support	Support
	HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69245-B21	No support	Support	No support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70674-B21	No support	No support	No support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70669-B21	No support	No support	No support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70672-B21	No support	No support	No support
	HPE 15.36TB NVMe RI E3S EC1 FIPS CM7 SSD	P79122-B21	No support	No support	No support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77273-B21	Support	No support	No support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77275-B21	Support	No support	No support
	HPE 30.72TB NVMe RI E3S EC1 9550 SSD	P79965-B21	Support	No support	No support

Storage – EDSFF (1/2):

DL145 with 1U Heat Sink – Direct Attach					
Type	Description	SKU	35°C	40°C	45°C
			*Direct Attach		
EDSFF NVMe	HPE 3.84TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63930-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63934-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63938-B21	Support	Support	Support
	HPE 30.72TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 P5430 SSD	P79065-B21	No support	No support	No support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57799-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57803-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57807-B21	Support	Support	Support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77269-B21	Support	Support	Support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77271-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77273-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77275-B21	Support	Support	Support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77262-B21	Support	Support	Support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77265-B21	Support	Support	Support
	PE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77267-B21	Support	Support	Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70392-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70395-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70397-B21	Support	Support	Support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70399-B21	Support	Support	Support
	HPE 30.72TB NVMe RI E3S EC1 9550 SSD	P79965-B21	Support	No support	No support

Storage – EDSFF (2/2):

DL145 with 1U Heat Sink – Direct Attach					
Type	Description	SKU	35°C	40°C	45°C
			*Direct Attach		
EDSFF NVMe	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70401-B21	Support	Support	Support
	HPE 12.8TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70403-B21	Support	Support	Support
	HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61179-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61183-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61187-B21	Support	Support	Support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61191-B21	Support	Support	Support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61195-B21	Support	Support	Support
	HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69234-B21	Support	Support	Support
	HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69237-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69239-B21	Support	Support	Support
	HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69546-B21	Support	Support	Support
	HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69241-B21	Support	Support	Support
	HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69243-B21	Support	Support	Support
	HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69245-B21	Support	Support	Support
	HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70674-B21	Support	Support	Support
	HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70669-B21	Support	Support	Support
	HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70672-B21	Support	Support	Support
	HPE 15.36TB NVMe RI E3S EC1 FIPS CM7 SSD	P79122-B21	Support	Support	Support

Notes: *For Direct Attach, power capping will occur.

Step 3 Base Configuration

CTO Server	HPE ProLiant DL145 Gen11 Configure-to-order Server
HPE ProLiant DL145 Gen11 Configure-to-order Server	P71964-B21
TAA SKU	P71964-B21#GTA
Processor	Not included as standard
Heat sink	2U Standard, Included
DIMM Slots	6, 1 DIMM per Slot
Drive cage	Not included, Choice of SFF or EDSFF Drive Cage
Storage controller	Not included, Choice of HPE storage controllers
PCIe Slot	1 X PCIe 5.0slot (x 16 FHHL)
OCP3.0 Slot	1x OCP 3.0 PCIe 5.0 (x16)
Network controller	Not included, Choice of HPE Network controllers
Fans	4 X Standard Fans
USB	4 X USB 3.2 Gen1 + 1 X iLO service port
Video output	1 X DisplayPort
Serial port	Not included, Optional RJ45 Serial port
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advanced (optional), OneView (optional) and HPE Compute Ops Management (optional)
Security	Embedded TPM 2.0 (Trusted Platform Module), Chassis Intrusion Detection, Kensington Lock
Mounting	Not included, Choice of mounting options
Rail Kit	Not included, Optional Easy Install Rails and CMA
Form factor	2U Rack
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.

Notes:

- DL145 CTO Server requires the selection of Processor, Memory and Power Supply.
- HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed into a designated country. TAA compliance is only provided when HPE options are included as part of factory integrated orders (CTO).
- TAA compliant configuration requires TAA versions of the CTO Server SKUs.
- All CTO servers are ENERGY STAR® 4.0 compliant.

HPE Smart Choice Purchase Program

The HPE Smart Choice Purchase Program features popular fully configured products that can be quoted in minutes and shipped quickly through HPE Authorized Partners. Products are configured and tested in an HPE factory and stocked at HPE Authorized Distributors and Partners. The products arrive in a single box, making onsite integration easier and more efficient for partners and customers. Additionally, there are aggressively priced HPE Tech Care Services available only through the HPE Smart Choice program when you purchase an HPE Smart Choice product.

For HPE Smart Choice configuration and product details, please visit the Smart Choice Supplemental QuickSpecs: https://www.hpe.com/psnow/doc/a50009219enw

Choice of Core Options

Processor

Please select one 4th Generation AMD EPYC™ Processor

AMD EPYC™ 8534P 2.3GHz 64-core 200W Processor for HPE	P69263-B21
AMD EPYC™ 8434P 2.5GHz 48-core 200W Processor for HPE	P69262-B21
AMD EPYC™ 8324P 2.65GHz 32-core 180W Processor for HPE	P69261-B21
AMD EPYC™ 8224P 2.55GHz 24-core 160W Processor for HPE	P69260-B21
AMD EPYC™ 8124P 2.45GHz 16-core 125W Processor for HPE	P69259-B21
AMD EPYC™ 8024P 2.4GHz 8-core 90W Processor for HPE	P69258-B21
AMD EPYC™ 8534PN 2.0GHz 64-core 175W Processor for HPE	P71874-B21
AMD EPYC™ 8434PN 2.0GHz 48-core 155W Processor for HPE	P71871-B21
AMD EPYC™ 8324PN 2.05GHz 32-core 130W Processor for HPE	P71868-B21
AMD EPYC™ 8224PN 2.0GHz 24-core 120W Processor for HPE	P71865-B21
AMD EPYC™ 8124PN 2.0GHz 16-core 100W Processor for HPE	P71862-B21
AMD EPYC™ 8024PN 2.05GHz 8-core 80W Processor for HPE	P71859-B21

Memory

Please select one or more memory from below.

For new DDR5 memory, please go to HPE DDR5 Smart Memory QuickSpecs

For details on the Memory Population Rules and Guidelines with AMD EPYC™ 9004 series processors, please go to: https://www.hpe.com/psnow/doc/a50007481enw

Notes: Quantity of memory DIMMs selected per socket must be 1, 2, 4 and 6.

Registered DIMMs (RDIMMs)

HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50309-B21
HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50311-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P50312-B21
HPE 96GB (1x96GB) Dual Rank x4 DDR5-4800 CAS-46-45-45 EC8 Registered Smart Memory Kit	P66676-B21
HPE 128GB (1x128GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P69982-B21

Notes: All DIMMs selected in a server configuration must be of the same part number, capacity size, rank etc.

Power Supplies

Select one or two power supplies from below.

HPE ProLiant DL110 700W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	P43150-B21

Notes: Available in 94% efficiency.

HPE ProLiant DL110 700W Flex Slot Platinum Hot Plug Low Halogen AC Power Supply Kit	P44975-B21

Notes: Available in 94% efficiency.

HPE ProLiant DL110 900W-1000W Titanium Hot Plug Low Halogen AC Power Supply Kit P54290-B21
Notes: Available in 96% efficiency.

All power supply kits have reverse airflow to support front cabled design of DL145.

Beginning on January 1st, 2024, units sold into the European Union (EU), European Economic Area (EEA), the United Kingdom, Ireland, Switzerland or Turkey, must include more efficient AC power supplies: 94% for multi-output and 96% for single-output. 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.

Storage Options

HPE ProLiant DL145 Gen11 can support 2 SFF Drives or up to 6 EDSFF Drives using the drive cages and cables listed below.

Select the below drive cage kit for 2 SFF drive support

HPE ProLiant DL145 Gen11 2SFF Drive Cage Kit P71977-B21

Notes:

- Includes 2SFF drive cage, backplane and direct attach cable.
- Drives supported are either SATA or NVMe.
- HPE ProLiant DL145 Gen11 2SFF Drive Cage Kit cannot be selected with HPE ProLiant DL145 Gen11 4EDSFF Drive Cage Kit or HPE ProLiant DL145 Gen11 6 EDSFF Cable Kit.
- Maximum of one.

Select the below drive cage kit for 4 EDSFF drives support

HPE ProLiant DL145 Gen11 4EDSFF Drive Cage Kit P71985-B21

Notes:

- Includes EDSFF drive cage, 4 EDSFF backplane and direct attach cable
- Drives supported are NVMe only
- HPE ProLiant DL145 Gen11 2SFF Drive Cage Kit cannot be selected with HPE ProLiant DL145 Gen11 4EDSFF Drive Cage Kit or HPE ProLiant DL145 Gen11 6 EDSFF Cable Kit
- Minimum 1 Drive Cage must be selected from " HPE ProLiant DL145 Gen11 2SFF Drive Cage Kit " or " HPE ProLiant DL145 Gen11 4EDSFF Drive Cage Kit ".
- Maximum of one.

Select the below drive cage kit for 6 EDSFF drives support

HPE ProLiant DL145 Gen11 6EDSFF Cable Kit P71981-B21

Notes:

- Includes direct attach cable to support additional 2 EDSFF drives
- Drives supported are NVMe only
- If " HPE ProLiant DL145 Gen11 6 EDSFF Cable Kit " is selected, then " HPE ProLiant DL145 Gen11 4EDSFF Drive Cage Kit must be selected
- Maximum of one.

Storage Controller

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

Notes: For E208e-p Controller:

- Controller Based Encryption (CBE) with a remote key management server is not supported. Local key management (LKM) is supported
- One Button Secure Erase (OBSE) is used to sanitize drives and factory reset the controller is not supported
- For more information on the HPE Smart Array E208i-p SR Gen10 Controller, please refer to the QuickSpecs

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

Notes: Supports both SATA/NVMe SFF and EDSFF Drives.

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

Notes:

- Supports both SATA/NVMe SFF and EDSFF Drives.
- Requires 96W Smart Stg Li-ion Batt 145mm Kit (P01366-B21) or Smart Hybrid Capacitor w/ 145mm Cable (P02377-B21).

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

Notes:

- Supports both SATA/NVMe SFF and EDSFF Drives.
- Requires 96W Smart Stg Li-ion Batt 145mm Kit (P01366-B21) or Smart Hybrid Capacitor w/ 145mm Cable (P02377-B21).

The Gen11 storage controller portfolio has been updated to include new technology like OCP3.0 as well as PCIe adapters. For a more detailed breakout of the available Gen11 controllers visit the storage controllers QuickSpecs site: HPE Compute MR Gen11 Controllers QuickSpecs

Storage Controller Options

HPE ProLiant DL145 Gen11 MR216i-p 2SFF Storage Controller Cable Kit P72000-B21

Notes: If MR216i-p controller is selected with “HPE ProLiant DL145 Gen11 2SFF Drive Cage Kit”, then “HPE ProLiant DL145 Gen11 MR216i-p 2SFF Storage Controller Cable Kit” must be selected

HPE ProLiant DL145 Gen11 MR408i-o 4EDSFF Storage Controller Cable Kit P72002-B21

Notes: If MR408i-o controller is selected with “HPE ProLiant DL145 Gen11 4EDSFF Drive Cage Kit”, then “HPE ProLiant DL145 Gen11 MR408i-o 4EDSFF Storage Controller Cable Kit” must be selected

HPE ProLiant DL145 Gen11 MR216i-p/MR416i-p 4EDSFF Storage Controller Cable Kit P73003-B21

Notes: If MR216i-p or MR416i-p controller is selected with “HPE ProLiant DL145 Gen11 4EDSFF Drive Cage Kit”, then “HPE ProLiant DL145 Gen11 MR216i-p/MR416i-p 4EDSFF Storage Controller Cable Kit” must be selected

HPE ProLiant DL145 Gen11 MR216i-p/MR416i-p 6EDSFF Storage Controller Cable Kit P72004-B21

Notes: If MR216i-p or MR416i-p is selected for 6 EDSFF RAID solution, then "HPE ProLiant DL145 Gen11 4EDSFF Drive cage Kit" and "HPE ProLiant DL145 Gen11 MR216i-p/MR416i-p 6 EDSFF Storage controller kit" must be selected.

HPE Drives

Hot Plug SFF

SFF SAS HDD

HPE 300GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P40430-B21
HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P53561-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P28586-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3yr Wty FIPS 140-2 TAA-compliant HDD	P28622-B21
HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P53562-B21
HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P28352-B21
HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3yr Wty 512e FIPS 140-2 TAA-compliant HDD	P28618-B21

SFF SATA - Read Intensive

HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21
HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-B21
HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-B21

SFF SATA – Mixed Use

HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-B21
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-B21

SED (Self-Encryption Drive) SFF SATA

HPE 480GB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58236-B21
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58244-B21

SFF NVMe – Read Intensive

HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64846-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64848-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50216-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50222-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50224-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70434-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70436-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 SPDM 7500 SSD	P84244-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 SPDM 7500 SSD	P84242-B21
HPE 15.36TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 SPDM 7500b SSD	P84239-B21

SFF NVMe - Mixed Use

HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65023-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50227-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD	P70426-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD	P70428-B21

SED (Self-Encryption Drive) SFF NVMe

HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61019-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61027-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61035-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61043-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61051-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61059-B21
HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P79122-B21

Hot Plug EDSFF

EDSFF NVMe Mainstream Performance – Very Read Optimized

HPE 3.84TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63930-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63934-B21
HPE 15.36TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63938-B21
HPE 30.72TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P79065-B21

EDSFF NVMe Mainstream Performance - Read Intensive

HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69234-B21
HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69546-B21
HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77269-B21
HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77271-B21
HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77275-B21
HPE 30.72TB NVMe Gen5 High Performance Read Intensive E3.S EC1 EDSFF SPDM 9550 SSD	P79965-B21

EDSFF NVMe Mainstream Performance – Mixed Use

HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69241-B21
HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69243-B21
HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69245-B21
HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77262-B21
HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77265-B21
HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77267-B21

EDSFF NVMe High Performance - Read Intensive

HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61179-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61183-B21
HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61187-B21
HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD	P57799-B21
HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD	P57807-B21
HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70392-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70395-B21
HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70397-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70674-B21

EDSFF NVMe High Performance – Mixed Use

HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61191-B21
HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70399-B21
HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70401-B21
HPE 12.8TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70403-B21
HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70672-B21

Cooling Options

HPE ProLiant DL145 Gen11 2U Performance Fan Kit	P72581-B21

Notes:

- if “HPE ProLiant DL145 Gen11 4EDSFF Drive Cage Kit” or/and “HPE ProLiant DL145 Gen11 6 EDSFF Cable Kit” is selected, then” HPE ProLiant DL145 Gen11 2U Performance Fan Kit” must be selected
- If performance fan is selected, then it must be in Qty =4

Boot Controllers

HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	P48183-B21
HPE NS204i-u v2 960GB NVMe Hot Plug Boot Optimized Storage Device	P81160-B21
HPE NS204i-u v2 960GB NVMe SED Hot Plug Boot Optimized Storage Device	P81162-B21

Notes:

- Does not consume PCIe slot or OCP slot
- For additional information, please visit HPE OS Boot Device QuickSpecs

HPE ProLiant DL145 Gen11 NS204i-u Enablement Kit	P71992-B21

Notes:

- If "HPE NS204i-u Gen11 Hot-Plug Boot Opt Dev" is selected" then "HPE DL145 Gen11 NS204i-u Enable Kit" must be selected
- Maximum of one.

HPE Networking

PCIe Adapters

1 Gigabit Ethernet adapter

Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21

10 Gigabit Ethernet adapters

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

10/25 Gigabit Ethernet adapters

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

OCP 3.0 Adapter

1 Gigabit Ethernet OCP adapters

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

10 Gigabit Ethernet OCP Adapters

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

10/25 Gigabit Ethernet OCP adapters

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

PCIe Expansion slots

Notes: PCIe Gen5 x16 FHHL Slot 3 shipping default in ALL CTO server

HPE ProLiant DL145 Gen11 x16 FHFL PCIe Gen5 Slot 2 Riser Kit	P71989-B21
HPE ProLiant DL145 Gen11 x16 FHFL PCIe Gen5 Slot 1 Riser Kit	P71991-B21

Notes: If "HPE ProLiant DL145 Gen11 x16 FHFL PCIe Gen5 Slot 1 Riser Kit " is selected, then " HPE ProLiant DL145 Gen11 x16 FHFL PCIe Gen5 Slot 2 Riser Kit " must be selected (NOT VICE VERSA).

HPE Computation and Graphics Accelerators

NVIDIA L4 24GB PCIe Accelerator for HPE S0K89C

Notes:

- For best performance across common workloads, HPE recommends system main memory at least twice the memory of all GPU.
- Maximum of three.

NVIDIA L40S 48GB PCIe Accelerator S2L70C

Notes:

- Maximum of one.
- Cannot mix Doublewide and Singlewide GPU.
- If Doublewide GPU is selected, then riser " HPE ProLiant DL145 Gen11 x16 FHFL PCIe Gen5 Slot 2 Riser Kit " must be selected and defaulted.
- If Doublewide GPU is selected, then " HPE ProLiant DL145 Gen11 x16 FHFL PCIe Gen5 Slot 1 Riser Kit " cannot be selected as Doublewide GPU occupies this space. The “PCIe Card Capacity Limits” must account for this limitation.
- If Doublewide GPU is selected, then “HPE ProLiant DL145 Gen11 1U Heat Sink Kit”, “HPE ProLiant DL145 Gen11 Double Wide GPU Cable Kit” and “HPE ProLiant DL145 Gen11 Double Wide GPU Air Baffle Kit” must be selected and vice versa.
- If "HPE DL145 G11 5C-50C/23F-122F FIO Config" OR "HPE DL145 G11 5C-55C/23F-131F FIO Config", is selected, then DoubleWide GPU cannot be selected.
- If "HPE DL145 Gen11 Mode 1 Opt ACC FIO Config" OR "HPE DL145 Gen11 Mode 2 Opt ACC FIO Config" is selected, then DoubleWide GPU cannot be selected.

HPE ProLiant DL145 Gen11 1U Heat Sink Kit P72580-B21

Notes: If Doublewide GPU is selected, then “HPE ProLiant DL145 Gen11 1U Heat Sink Kit” must be selected and vice versa.

HPE ProLiant DL145 Gen11 Double Wide GPU Cable Kit P71995-B21

Notes: If Doublewide GPU is selected, then “HPE ProLiant DL145 Gen11 Double Wide GPU Cable Kit” must be selected and vice versa.

HPE ProLiant DL145 Gen11 Double Wide GPU Air Baffle Kit P73002-B21

Notes: If Doublewide GPU is selected, then “HPE ProLiant DL145 Gen11 Double Wide GPU Air Baffle Kit” must be selected and vice versa.

HPE Security

HPE ProLiant DL145 Gen11 FIO Bezel Filter Kit P72582-B21

Notes:

- The Bezel filter kit includes one Bezel and one air filter
- Air filter is a consumable part and is not covered under HPE warranty.
- HPE highly recommends replacing the air filter every three to six months or following the prescribed preventative maintenance schedule. This helps ensure optimal performance and prevent overheating and downtime. For detailed maintenance, please refer to the HPE ProLiant DL145 User Guide
- Upon installation of the Bezel Filter, iLO triggers a 90-day timer and issues two reminders for the customer to check and, if needed, replace the air filter. The first reminder is sent on the 85th day of the operation, and the second reminder is issued on the 90th day, at which point the customer can reset the timer. Timer can be customized.

HPE ProLiant DL145 Gen11 Filter Replacement Kit P72583-B21

Notes: Includes two individual air filters

HPE Bezel Lock Kit 875519-B21

Notes: If "HPE Bezel Lock Kit" is selected, then " HPE ProLiant DL145 Gen11 FIO Bezel Filter Kit” must be selected

HPE ProLiant DL145 Gen11 Disabled External USB Port FIO System Setting P73214-B21

Notes: To disable the USB ports for security

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

Additional Option

HPE ProLiant DL145 Gen11 RJ45 Serial Port Cable Kit P71998-B21

Notes: This cable kit supports an optional RJ45 serial port

HPE ProLiant DL145 Gen11 Military Ruggedization FIO Kit P87008-B21

Notes:

- MIL-STD-810H testing was performed on the HPE ProLiant DL145 Gen11 configured with the Military Ruggedization FIO Kit (P87008 B21). This factory installed option reinforces internal mechanical structures including drives, network adapters, power supplies, and retention mechanisms. The kit enables the system configuration to meet MIL-STD-810H environmental requirements for altitude, temperature, humidity, vibration, and shock.
- MIL-STD-810H Test coverage with Military Ruggedization FIO Kit

Test Category	Method	Procedures	Notes
Altitude Storage	500.6	I	40Kft
Altitude Operation	500.6	II	15Kft
Altitude Operation	500.6	III	8Kft/40Kft
High Temp Storage	501.7	I	+85 °C
High Temp Operation	501.7	II	+55 °C
High Temp Tactical Standby	501.7	III	+60 °C
Low Temp Storage	502.7	I	-55 °C
Humidity	507.6	II	95%, 10 cycles
Vibration	514.8	I	Category 8, Propeller Aircraft
Vibration	514.8	I	Category 12, Jet Aircraft
Vibration	514.8	I	Category 20, Ground Vehicles (Common Carrier Profile)
Vibration	514.8	I	Category 21, Shipboard Random Vibration
Shock	516.8	I	Functional Shock; 20g, 11ms

- The DL145 Gen11 Military Ruggedization FIO Kit (P87008-B21) is factory installed only. Post shipment installation or retrofit is not supported.

Configurator enforces supported option combinations when the DL145 Gen11 Military Ruggedization FIO Kit (P87008 B21) is selected.

Mounting Options

HPE ProLiant DL145 Gen11 Desk/Wall Mounting Kit P72006-B21

Notes: The Desk/Wall Mounting Kit allows system installation on a wall/desk instead of a rack.

HPE ProLiant DL145 Gen11 Rack Enablement Kit P72008-B21

Notes: The rack enablement kit allows system installation in a 2-post or 4 post rack.

HPE ProLiant DL145 Gen11 2-post Rail Kit P78764-B21

Notes:

- The 2- post rail kit with rack enablement kit allows system installation in a 2-post rack
- If “HPE ProLiant DL145 Gen11 2-post Rail Kit” is selected, then "HPE ProLiant DL145 Gen11 Rack Enablement Kit" should be selected

Rail Kits

Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.
To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative.

Notes:

- HPE rail kits are designed to work with HPE racks in compliance with industry standard EIA-310-E. In the event a customer elects to purchase a third-party rack for use with an HPE rail kit, any such use is at customer’s own risk. HPE makes no express or implied warranties with respect to such third-party racks and specifically disclaims any implied warranties of merchantability and fitness for a particular purpose. Furthermore, HPE has no obligation and assumes no liability for the materials, design, specifications, installation, safety, and compatibility of any such third-party racks with any rail kits, including HPE rail kits.
- Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and the number of people to use for any installation

HPE Easy Install Rail 1 Kit P52349-B21

Notes: If "HPE ProLiant DL145 Gen11 Rack Enablement Kit" is selected, then "HPE Easy Install Rail 1 Kit" should be selected

HPE DL38X Gen10 Plus 2U Cable Management Arm for Rail Kit P22020-B21

Notes: If "HPE Gen11 2U CMA Kit" is selected, then "HPE Easy Install Rail 1 Kit" must be selected

Software as a Service Management

HPE Compute Ops Management

HPE Compute Ops Management Standard 3-year Upfront ProLiant SaaS	R7A11AAE
HPE Compute Ops Management Standard 5-year Upfront ProLiant SaaS	R7A12AAE
HPE Compute Ops Management Standard 7-year Upfront ProLiant SaaS	S2E10AAE
HPE Compute Cloud Management Server FIO Enablement	S1A05A
HPE Compute Ops Management Advanced 1-year Upfront ProLiant SaaS	S5E58AAE
HPE Compute Ops Management Advanced 3-year Upfront ProLiant SaaS	S5E59AAE
HPE Compute Ops Management Advanced 5-year Upfront ProLiant SaaS	S5E60AAE
HPE Compute Ops Management Advanced 7-year Upfront ProLiant SaaS	S5E61AAE
HPE Compute Ops Management Advanced Flex with ProLiant Enablement	S6C28AAE

HPE OneView

HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView including 3yr 24x7 Support Track 1-server LTU	E5Y36A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support Bundle Track 1-server LTU	E5Y44A

For more information, visit the HPE Compute Ops Management QuickSpecs:
https://www.hpe.com/psnow/doc/a50004263enw
Supported Servers – CTO only. No OEM. – Complete list can be found here: Latest Supported Server List:
https://www.hpe.com/info/com-supported-servers

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

Embedded Management

HPE iLO Advanced

HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A
HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21

HPE Racks

- Refer to the HPE Advanced Series Racks QuickSpecs for information on additional racks options and rack specifications. HPE G2 Advanced Series Racks
- Refer to the HPE Enterprise Series Racks QuickSpecs for information on additional racks options and rack specifications. HPE G2 Enterprise Series Racks

HPE Power Distribution Units (PDUs)

- Refer to the HPE Basic Power Distribution Units (PDU) QuickSpecs for information on these products and their specifications.
- Refer to the HPE Metered Power Distribution Units (PDU) QuickSpecs for information on these products and their specifications.
- Refer to the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs for information on these products and their specifications.
- Refer to 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.
- Refer to the HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs for information on these products and their specifications.
- Refer to the HPE Line Interactive Single-Phase UPS QuickSpecs for information on these products and their specifications.

HPE Rack Options

- Refer to the HPE KVM Switches web page for information on these products and their specifications

HPE Support Service

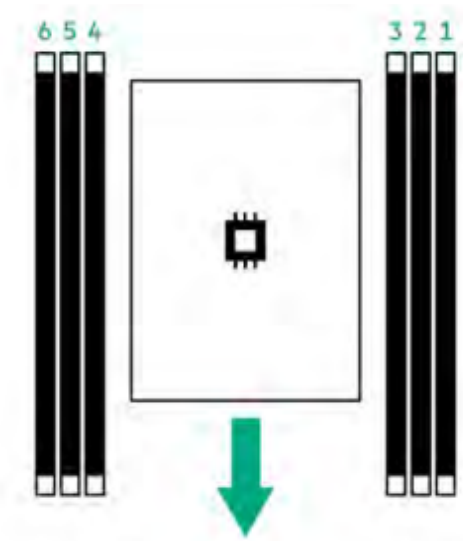
Tech Care Services

HPE 3 Year Tech Care Basic ProLiant DL145 HW Service	H46HWE
HPE 3 Year Tech Care Basic wDMR ProLiant DL145 HW Service	H46HXE
HPE 3 Year Tech Care Basic wCDMR ProLiant DL145 HW Service	H46HYE
HPE 3 Year Tech Care Basic Same Business Day ProLiant DL145 Service	H46HZE
HPE 3 Year Tech Care Basic Same Business Day wDMR ProLiant DL145 Service	H46JBE
HPE 3 Year Tech Care Basic Same Business Day wCDMR ProLiant DL145 Service	H46JCE
HPE 3 Year Tech Care Essential ProLiant DL145 HW Service	H46JDE
HPE 3 Year Tech Care Essential wDMR ProLiant DL145 HW Service	H46JFE
HPE 3 Year Tech Care Essential wCDMR ProLiant DL145 HW Service	H46JGE
HPE 3 Year Tech Care Critical for ProLiant DL145 HW Service	H46JHE
HPE 3 Year Tech Care Critical wDMR ProLiant DL145 HW Service	H46JJE
HPE 3 Year Tech Care Critical wCDMR ProLiant DL145 HW Service	H46JKE
HPE 4 Year Tech Care Basic ProLiant DL145 HW Service	H46JLE
HPE 4 Year Tech Care Basic wDMR ProLiant DL145 HW Service	H46JME
HPE 4 Year Tech Care Basic wCDMR ProLiant DL145 HW Service	H46JNE
HPE 4 Year Tech Care Basic Same Business Day ProLiant DL145 Service	H46JQE
HPE 4 Year Tech Care Basic Same Business Day wDMR ProLiant DL145 Service	H46JRE
HPE 4 Year Tech Care Basic Same Business Day wCDMR ProLiant DL145 Service	H46JSE
HPE 4 Year Tech Care Essential ProLiant DL145 HW Service	H46JTE
HPE 4 Year Tech Care Essential wDMR ProLiant DL145 HW Service	H46JVE
HPE 4 Year Tech Care Essential wCDMR ProLiant DL145 HW Service	H46JWE
HPE 4 Year Tech Care Critical for ProLiant DL145 HW Service	H46JXE
HPE 4 Year Tech Care Critical wDMR ProLiant DL145 HW Service	H46JYE
HPE 4 Year Tech Care Critical wCDMR ProLiant DL145 HW Service	H46JZE
HPE 5 Year Tech Care Basic ProLiant DL145 HW Service	H46KBE
HPE 5 Year Tech Care Basic wDMR ProLiant DL145 HW Service	H46KCE
HPE 5 Year Tech Care Basic wCDMR ProLiant DL145 HW Service	H46KDE
HPE 5 Year Tech Care Basic Same Business Day ProLiant DL145 Service	H46KFE
HPE 5 Year Tech Care Basic Same Business Day wDMR ProLiant DL145 Service	H46KGE
HPE 5 Year Tech Care Basic Same Business Day wCDMR ProLiant DL145 Service	H46KHE
HPE 5 Year Tech Care Essential ProLiant DL145 HW Service	H46KJE
HPE 5 Year Tech Care Essential wDMR ProLiant DL145 HW Service	H46KKE
HPE 5 Year Tech Care Essential wCDMR ProLiant DL145 HW Service	H46KLE
HPE 5 Year Tech Care Critical for ProLiant DL145 HW Service	H46KME
HPE 5 Year Tech Care Critical wDMR ProLiant DL145 HW Service	H46KNE
HPE 5 Year Tech Care Critical wCDMR ProLiant DL145 HW Service	H46KQE
HPE 6 Year Tech Care Basic ProLiant DL145 Service	H46KRE
HPE 6 Year Tech Care Basic wDMR ProLiant DL145 Service	H46KSE
HPE 6 Year Tech Care Basic Same Business Day ProLiant DL145 Service	H46KTE
HPE 6 Year Tech Care Basic Same Business Day wDMR ProLiant DL145 HW Service	H46KVE
HPE 6 Year Tech Care Essential ProLiant DL145 Service	H46KXE
HPE 6 Year Tech Care Essential wDMR ProLiant DL145 Service	H46KYE
HPE 7 Year Tech Care Basic ProLiant DL145 Service	H46KZE

Additional Options

HPE 7 Year Tech Care Basic wDMR ProLiant DL145 Service	H46LBE
HPE 7 Year Tech Care Basic Same Business Day ProLiant DL145 Service	H46LCE
HPE 7 Year Tech Care Essential ProLiant DL145 Service	H46LDE
HPE 7 Year Tech Care Essential wDMR ProLiant DL145 Service	H46LFE
HPE 3 Year Tech Care Telco 24x7 Remote Technical Support DL145 Gen11 Service	H46LGE
HPE 4 Year Tech Care Telco 24x7 Remote Technical Support DL145 Gen11 Service	H46LHE
HPE 5 Year Tech Care Telco 24x7 Remote Technical Support DL145 Gen11 Service	H46LJE
HPE 6 Year Tech Care Telco 24x7 Remote Technical Support DL145 Gen11 Service	H46LKE
HPE 7 Year Tech Care Telco 24x7 Remote Technical Support DL145 Gen11 Service	H46LLE
HPE 3 Year Tech Care Telco 24x7 Remote Technical Support wDMR DL145 Gen11 Service	H46LME
HPE 4 Year Tech Care Telco 24x7 Remote Technical Support wDMR DL145 Gen11 Service	H46LNE
HPE 5 Year Tech Care Telco 24x7 Remote Technical Support wDMR DL145 Gen11 Service	H46LQE
HPE 6 Year Tech Care Telco 24x7 Remote Technical Support wDMR DL145 Gen11 Service	H46LRE
HPE 7 Year Tech Care Telco 24x7 Remote Technical Support wDMR DL145 Gen11 Service	H46LSE
HPE 3 Year Tech Care Telco 24x7 Remote Technical Support wCDMR DL145 Gen11 Service	H46LTE
HPE 4 Year Tech Care Telco 24x7 Remote Technical Support wCDMR DL145 Gen11 Service	H46LVE
HPE 5 Year Tech Care Telco 24x7 Remote Technical Support wCDMR DL145 Gen11 Service	H46LWE

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



The arrow points to the front of the server

General Memory Population Rules and Guidelines

- Install DIMMs only after the corresponding processor is installed.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, and the number and model of installed processors qualified on the platform.
- To realize the performance memory capabilities listed in this document, HPE DDR5 Smart Memory is required. For additional information, refer to the: HPE DDR5 Smart Memory QuickSpecs
- For the Memory Population Rules and Guidelines with AMD EPYC™ 8004 series processors, see details here: https://www.hpe.com/psnow/doc/a50007481enw

System Unit

Dimensions

System configuration	Dimensions (Height x Width x Depth)
System without Bezel Filter	3.44 in X 14.14 in X 16 in 8.75 cm X 35.94 cm X 40.66 cm
System with Bezel Filter	3.44 in X 15.13 in X 19.98 in 8.75 cm X 38.44 cm X 50.74 cm

Weight (Approximate)

DL145 G11	Config type		Weight (kg) / (lbs.)	Config
Rack	EDSFF	Light load	11.31 kg / 24.93 lbs.	1x processor, 1x primary riser, 1x Memory, 1x EDSFF, 1x PSU, 1x heat sink, 4x fan
		Full load	15.18 kg / 33.47 lbs.	1x processor, 1x primary riser, 2x risers, 6x Memory, 6x EDSFF, 2x PSU, 1x heat sink, 4x fan
	SFF	Light load	11.38 kg / 25.09 lbs.	1x processor, 1x primary riser, 1x Memory, 1x SFF, 1x PSU, 1x heat sink, 4x fan
		Full load	14.76 kg / 32.54 lbs.	1x processor, 1x primary riser, 2x risers, 6x Memory, 2x SFF, 2x PSU, 1x heat sink, 4x fan
Desk	EDSFF	Light load	11.74kg / 25.88 lbs.	1x processor, 1x primary riser, 1x Memory, 1x EDSFF, 1x PSU, 1x heat sink, 4x fan
		Full load	15.61 kg / 34.41 lbs.	1x processor, 1x primary riser, 2x risers, 6x Memory, 6x EDSFF, 2x PSU, 1x heat sink, 4x fan
	SFF	Light load	11.81 kg / 26.04 lbs.	1x processor, 1x primary riser, 1x Memory, 1x SFF, 1x PSU, 1x heat sink, 4x fan
		Full load	15.19 kg / 33.49 lbs.	1x processor, 1x primary riser, 2x risers, 6x Memory, 2x SFF, 2x PSU, 1x heat sink, 4x fan

Input Requirements (per power supply)

Rated Line Voltage

- For 700W (-48VDC): -40 Vdc to -72 Vdc
- For 700W (Platinum): 100-240 VAC
- For 900W-1000W (Titanium): 100-240 VAC

BTU Rating

Maximum

- For 700 W (-48 VDC) Power Supply: 2593 BTU/hr. at -40 VDC, 2537 BTU/hr. at -72 VDC
- For 700 W (Platinum) Power Supply: 2660 BTU/hr. at 100 VAC, 2570 BTU/hr. at 200 VAC, 2570 BTU/hr. at 240 VAC
- For 900 W-1000 W (Titanium) Power Supply: 3368 BTU/hr. at 100 VAC, 3640 BTU/hr. at 200 VAC, 3625 BTU/hr. at 240 VAC

Power Supply Output (per power supply)

Rated Steady-State Power

- For 700 W (-48 VDC) Power Supply: 700 W at -40 VDC, 700 W at -72 VDC
- For 700 W (Platinum) Power Supply: 700 W at 100 VAC, 700 W at 200 VAC, 700 W at 240 VAC
- For 900 W-1000 W (Titanium) Power Supply: 900 W at 100 VAC, 1000 W at 200 VAC, 1000 W at 240 VAC

Maximum Peak Power

- For 700 W (-48 VDC) Power Supply: 700 W at -40 VDC, 700 W at -72 VDC
- For 700 W (Platinum) Power Supply: 700 W at 100 VAC, 700 W at 200 VAC, 700 W at 240 VAC
- For 900 W-1000 W (Titanium) Power Supply: 900 W at 100 VAC, 1000 W at 200 VAC, 1000 W at 240 VAC

System Inlet Temperature

- **High Operating Temperature**

  Depending on hardware configuration, the supported system inlet range can be extended up to 55°C

- **Extended Operating Temperature**

  Depending on hardware configuration, the supported system inlet range can be extended up to 45°C. Compliance with ASHRAE A3 and A4 standards.

- **Standard Operating Temperature**

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

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

- **Non-Operating**

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

Relative Humidity (non-condensing)

- **Operating**
  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. The maximum allowable altitude change rate is 457 m/min (1500 ft./min).
- **Non-operating**
  9144 m (30,000 ft.). The maximum allowable altitude change rate is 457 m/min (1500 ft./min).

Emissions Classification (EMC) – Regulatory Information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center: https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=c03471072

Acoustic Noise

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

Idle	
LWA,m	4.3 B Test case 1 (light Config) 5.1 B Test case 2 (Medium Config) 5.1 B Test case 3 (Heavy Config)
LpAm	34 dBA Test case 1 (Light Config 40 dBA Test case 2 (Medium Config) 40 dBA Test case 3 (Heavy Config)
Kv	0.4 B Test case 1 (Light Config) 0.4 B Test case 2 (Medium Config) 0.4 B Test case 3 (Heavy Config)
Operating	
LWA,m	4.3 B Test case 1 (Light Config) 5.1 B Test case 2 (Medium Config) 5.1 B Test case 3 (Heavy Config)
LpAm	35 dBA Test case 1 (Light Config) 41 dBA Test case 2 (Medium Config) 40 dBA Test case 3 (Heavy Config)
Kv	0.4 B Test case 1 (Light Config) 0.4 B Test case 2 (Medium Config) 0.4 B Test case 3 (Heavy Config)

Notes:

- Operating mode: 50% of CPU TDP
- The declared mean A-weighted sound power level, LWA,m, is computed as the arithmetic average of the measured.
- A-weighted sound power levels for a randomly selected sample, rounded to the nearest 0,1 B.
- The declared mean A-weighted emission sound pressure level, LpA,m, is computed as the arithmetic average of the measured A-weighted emission sound pressure levels at the bystander positions for a randomly selected sample, rounded to the nearest 1 dB.
- The statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power level, LWA,m, such that there will be a 95% probability of acceptance, when using the verification procedures of ISO 9296, if no more than 6,5 % of the batch of new equipment, has A-weighted sound power levels greater than (LWA,m + Kv).
- The quantity, LWA,c (formerly called LWAd), can be computed from the sum of LWA,m and Kv.
- All measurements made to conform to ISO 7779 / ECMA-74 and declared to conform to ISO 9296 / ECMA-109.
- B, dB, abbreviations for bels and decibels, respectively, where 1 B = 10 dB.
- The results in this declaration apply only to the model numbers listed above when operating and tested according to the indicated modes and standards. A system with additional configuration components or increased operating functionality may increase the noise emission values.
- Systems under abnormal conditions may increase the noise level, people in the vicinity of the product [cabinet] for extended periods of time should consider wearing hearing protection or using other means to reduce noise exposure.

Shock and Vibration

The server has the following shock and vibration limits:

Shock:
Operating: 20 G for 10 milliseconds in each direction (positive and negative X, Y, and Z axes)
Non-operating package shock:
Free fall drop in height 36 in (914mm)
Six face shock pulses in the x, y, and z axis
.
Shock (Rack Load):
Incline impact: speed of 3.28 ft./sec[1 m/sec] to each vertical face.
Rotational flap drop: lift one side to 8 in [203 mm] and drop to each vertical face.
Free-fall drop: 2 in [51 mm] for one time.

Vibration:
Operating: 0.31 Grms at 5 Hz to 500 Hz for 10 minutes across 3 axes
Non-operating (in packaging): 1.2 Grms at 5Hz to 300Hz for 60min across 3 axes

Random Vibration (Rack Load):
Vertical (x-axis and y-axis): 0.84 Grms, at 5 Hz to 200 Hz, 60 min. to each axis
Horizontal (z-axis): 1.2 Grms, at 5 Hz to 200 Hz, 60 min

Environmentally 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 European Union Waste Electrical and Electronic Equipment Directive [EU WEEE] (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 website. 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
02-Mar-2026	Version 15	Changed	Service and Support section was updated.
		Added	Updated GreenLake statement.
02-Feb-2026	Version 14	Changed	Core Options section was updated.
		Added	HPE DL145 Gen11 Military Rugged FIO Kit
05-Jan-2026	Version 13	Changed	Overview, Configuration Information and Core Options sections were updated.
		Added	Acoustics configuration, SFF SATA – Mixed Use, SFF NVMe – Read Intensive, and EDSFF NVMe Mainstream Performance - Read Intensive SKUs.
		Removed	SED (Self-Encryption Drive) SFF SATA obsolete SKU.
01-Dec-2025	Version 12	Changed	Configuration Information and Core Options sections were updated.
		Added	DL145 with standard 2U Heat Sink Memory matrix rules.
		Removed	SFF NVMe – Read Intensive obsolete SKU.
03-Nov-2025	Version 11	Changed	Standard Features and Core Options sections were updated.
22-Sep-2025	Version 10	Changed	Overview, Standard Features and Configuration Information sections were updated.
		Added	Configuration Tables (Processors, Memory and Storage).
21-Jul-2025	Version 9	Changed	Summary of Changes section was updated. Added: Version History URLs.
02-Jun-2025	Version 8	Changed	Configuration Information and Core Options sections were updated. Added: Storage Controller rules, Removed: Storage EDSFF tables private SKUs, HPE Drives.
05-May-2025	Version 7	Changed	Standard Features, Configuration Information, and Additional Options sections were updated. Added: Storage Device Specs, MR Gen11 Storage Controller Specs, Storage Controller SFF Matrix, Storage Controller EDSFF Matrix, Hot-Plug EDSFF SKUs, Software as a Service Management Enablement SKU (COM) and European Union ErP Lot 9 Regulation section to include Turkey and Ireland. Removed:
07-Apr-2025	Version 6	Changed	Overview, Standard Features, and Additional Options sections were updated. Added: Heat Sink specs, Storage Devices SKUs, SFF SAS HDD SKUs, PCI Expansion Slot SKUs, HPE Computation and Graphics Accelerators SKUs, COM Advanced SKUs and QuickSpecs Survey.
03-Mar-2025	Version 5	Changed	Overview, Standard Features, Configuration Information and Additional Options sections were updated.
06-Jan-2025	Version 4	Changed	Configuration Information and Additional Options sections were updated.
04-Nov-2024	Version 3	Changed	Configuration Information section was updated.
07-Oct-2024	Version 2	Changed	Overview, Configuration Information, Additional Options and Technical Specifications sections were updated.
03-Sep-2024	Version 1	New	New QuickSpecs.

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

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