HPE ProLiant DL325 Gen10 Server

The HPE ProLiant DL325 Gen10 Server is the secure and versatile single socket server for virtualization and I/O intensive workloads. This 1P, 1U server delivers an exceptional balance of processor, memory and I/O for 2P performance at 1P TCO. Get the most out of your virtualized environment with this versatile server.

8SFF Front View – 8SFF + ODD Shown

1. Quick removal access panel
2. Serial no. label pull tab
3. Optional Media Bay*
4. Power On/Standby button and system power LED
5. Health LED
6. USB 3.0 port
7. NIC status LED
8. iLO Service Port
9. UID button/LED
10. Standard 8 SAS/SATA drive bays

NOTE: Option Shown: DVD-RW or DVD-ROM
NOTE: Option: +2 SFF SAS/SATA (total 10 SFF)
NOTE: Option: +2 SFF NVMe drives
QuickSpecs

HPE ProLiant DL325 Gen10 Server

Overview

1. Quick removal access panel
2. Serial no. label pull tab
3. Optional Media Bay*
4. Power On/Standby button and system power LED
5. Health LED

NOTE:*Option Shown: +2 SFF NVMe drives (total 10SFF NVMe)

NOTE:*Option: +2 SFF SAS/SATA

NOTE:*Option: DVD-RW or DVD-ROM

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NVMe SFF Front View – 10 SFF NVMe Shown

6. USB 3.0 port
7. NIC status LED
8. iLO Service Port
9. UID button/LED
10. Standard 8 NVMe drive bays

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4LFF Front View – with Optional ODD shown

6. UID button/LED
7. NIC status LED
8. Health LED
9. Power On/Standby button and system power LED
10. Standard 4 SAS/SATA drive bays
Overview

Internal View 8SFF chassis – with optional FlexLOM, Smart array shown

1. Fan cage shown with 5 Performance Hot-swappable fans
2. Optional HPE Smart Storage Battery
3. Hard drive Backplane Power Connector
4. Chassis intrusion detection connector
5. Processor (heatsinks shown)
6. DDR4 DIMM slots. Shown fully populated in 16 slots
7. Connection for second (optional) riser
8. Hot Plug redundant HPE Flexible Slot Power supplies
9. Optional HPE Flexible Smart Array Controller (P408i-a shown)
10. Serial Port Connector
11. (Under) Optional Flexible LOM slot
12. Primary PCIe riser, standard
13. Internal USB 3.0 connector
14. MicroSD card slot
Overview

Rear View – With optional FlexLOM shown.

1. Slot 1 PCIe 3.0
2. Slot 2 PCIe 3.0
3. Optional Slot 3 PCIe 3.0
4. HPE Flexible Slot Power Supply Bay
5. USB 3.0 Ports
6. iLO Management Port
7. UID LED
8. Embedded 4x 1GbE Adapter
9. VGA Port
10. Option: FlexibleLOM (Shown: 4x 1GbE)

NOTE: Supports Various NICs up to 25GbE.

What's New
- New 64GB RDIMMs using the 16Gb memory technology providing better performance and power efficiency
- New SATA Read Intensive SSD drives
- New NVMe Read Intensive and Mixed Use SSD drives
- AMD® EPYC® 7000 Processor Family
- Support for upto 10 NVMe drives
- Support for PCIe Smart Array controllers for internal drives
- Support for AMD® EPYC® 7371 processor
- Support for GPU - Tesla NVIDIA T4 for improving computational performance

Platform Information
Form Factor
1U rack

Chassis Types
8 SFF with optional Optical Drive, 2 SFF SAS/SATA or 2 NVMe drive bay options
8 SFF NVMe with optional Optical Drive 2 SFF SAS/SATA or 2 NVMe drive bay options
4 LFF with an optional Optical Drive bay

NOTE: The 8 SFF can be upgraded with either an additional 2SFF SAS/SATA kit for a total 10 SAS/SATA drives or 2SFF NVMe Kit for a total of 8 SAS/SATA + 2 NVMe drives.

NOTE: The NVMe chassis can be upgraded with either an additional 2SFF NVMe kit for a total of 10 NVMe drives or 2SFF SAS/SATA kit for a total of 8NVMe + 2 SAS/SATA drives.

System Fans
4LFF Chassis includes 5 Single Rotor Hot Swappable cable fans
8SFF Chassis includes 5 Dual Rotor Hot Swappable cable fans
NVMe Chassis includes 7 Dual Rotor Hot Swappable cable fans
Standard Features

Processors – One of the following depending on model.

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


<table>
<thead>
<tr>
<th>AMD EPYC Processor</th>
<th>Cores</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Max Memory</th>
<th>Wattage</th>
<th>Cache</th>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPYC 7601</td>
<td>32</td>
<td>2.2GHz</td>
<td>3.2GHz</td>
<td>2TB</td>
<td>180</td>
<td>64MB</td>
<td>2666MT/S</td>
</tr>
<tr>
<td>EPYC 7551P</td>
<td>32</td>
<td>2.0GHz</td>
<td>3.0GHz</td>
<td>2TB</td>
<td>180</td>
<td>64MB</td>
<td>2666MT/S</td>
</tr>
<tr>
<td>EPYC 7501</td>
<td>32</td>
<td>2.0GHz</td>
<td>3.0GHz</td>
<td>2TB</td>
<td>155/170</td>
<td>64MB</td>
<td>2666MT/S</td>
</tr>
<tr>
<td>EPYC 7451</td>
<td>24</td>
<td>2.3GHz</td>
<td>3.2GHz</td>
<td>2TB</td>
<td>180</td>
<td>64MB</td>
<td>2400/2666MT/S</td>
</tr>
<tr>
<td>EPYC 7401P</td>
<td>24</td>
<td>2.0GHz</td>
<td>3.0GHz</td>
<td>2TB</td>
<td>155/170</td>
<td>64MB</td>
<td>2400/2666MT/S</td>
</tr>
<tr>
<td>EPYC 7351P</td>
<td>16</td>
<td>2.4GHz</td>
<td>2.9GHz</td>
<td>2TB</td>
<td>155/170</td>
<td>64MB</td>
<td>2400/2666MT/S</td>
</tr>
<tr>
<td>EPYC 7301</td>
<td>16</td>
<td>2.2GHz</td>
<td>2.7GHz</td>
<td>2TB</td>
<td>155/170</td>
<td>64MB</td>
<td>2400/2666MT/S</td>
</tr>
<tr>
<td>EPYC 7281</td>
<td>16</td>
<td>2.1GHz</td>
<td>2.7GHz</td>
<td>2TB</td>
<td>155/170</td>
<td>32MB</td>
<td>2400/2666MT/S</td>
</tr>
<tr>
<td>EPYC 7261</td>
<td>8</td>
<td>2.5GHz</td>
<td>2.9GHz</td>
<td>2TB</td>
<td>155/170</td>
<td>64MB</td>
<td>2400/2666MT/S</td>
</tr>
<tr>
<td>EPYC 7251</td>
<td>8</td>
<td>2.1GHz</td>
<td>2.9GHz</td>
<td>2TB</td>
<td>120</td>
<td>32MB</td>
<td>2400MT/S</td>
</tr>
<tr>
<td>EPYC 7371</td>
<td>16</td>
<td>3.1GHz</td>
<td>3.8GHz</td>
<td>2TB</td>
<td>155/170</td>
<td>64MB</td>
<td>2400/2666MT/S</td>
</tr>
</tbody>
</table>

**NOTE:** All AMD EPYC processors can support up to 2TB of memory each.

Chipset

No chipset – System on Chip (SoC) design.

On System Management Chipset

HPE iLO 5 ASIC

**NOTE:** Read and learn more in the [iLO QuickSpecs](#)

Memory

One of the following depending on model

<table>
<thead>
<tr>
<th>Type:</th>
<th>HPE DDR4 SmartMemory, Registered (RDIMM), Load Reduced (LRDIMM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMM Slots Available</td>
<td>16 16 DIMM slots per processor, 8 channels per processor, 2 DIMMs per channel</td>
</tr>
<tr>
<td>Maximum capacity (LRDIMM)</td>
<td>2.0 TB 16 x 128 GB LRDIMM @ 2666 MT/S</td>
</tr>
<tr>
<td>Maximum capacity (RDIMM)</td>
<td>1.0 TB 16 x 64 GB RDIMM @ 2666 MT/S</td>
</tr>
</tbody>
</table>

**NOTE:** The maximum memory speed is limited by the processor selection.

**NOTE:** Mixing of RDIMM and LRDIMM memory is not supported.

**NOTE:** When 2DIMMs are populated per channel, memory speed drops to 2133 MT/S

Expansion Slots

**Default Primary Riser**

<table>
<thead>
<tr>
<th>Slots #</th>
<th>Technology</th>
<th>Bus Width</th>
<th>Connector Width</th>
<th>Slot Form Factor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCIe 3.0</td>
<td>X16</td>
<td>X16</td>
<td>Full-height, full-length slot</td>
<td>Proc 1</td>
</tr>
<tr>
<td>2</td>
<td>PCIe 3.0</td>
<td>X8</td>
<td>X8</td>
<td>Low Profile</td>
<td>Proc 1</td>
</tr>
</tbody>
</table>

**NOTE:** Bus Width Indicates the number of physical electrical lanes running to the connector.
Standard Features

### Secondary Riser

<table>
<thead>
<tr>
<th>Slots #</th>
<th>Technology</th>
<th>Bus Width</th>
<th>Connector Width</th>
<th>Slot Form Factor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCIe 3.0</td>
<td>X16</td>
<td>X16</td>
<td>Low Profile</td>
<td>Proc 1</td>
</tr>
</tbody>
</table>

**NOTE:** Secondary riser cannot be installed with Modular Smart Array Options

**NOTE:** Bus width indicated the number of physical electrical lanes running to the connector.

### Storage Controllers

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

One of the following depending on model

#### Software RAID

HPE Smart Array S100i SR Gen10 SW RAID

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

**NOTE:** HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled.

**NOTE:** HPE Smart Array S100i SR Gen10 SW RAID can operate only in Windows OS

**NOTE:** HPE Smart Array S100i SR Gen10 SW RAID is supported only on 4LFF chassis or when optional 2SFF SAS/SATA Kit is selected on the 8SFF chassis/ 8SFF SFF NVMe chassis.

**NOTE:** A maximum of 4 devices can be connected to HPE Smart Array S100i SR Gen10 SW RAID.

**NOTE:** HPE Smart Array S100i SR Gen10 SW RAID can support M.2 SSDs

#### Essential RAID Controller

HPE Smart Array E208i-a SR G10 LH Controller

HPE Smart Array E208e-p SR Gen10 Controller

#### Performance RAID Controller

HPE Smart Array P408i-a SR G10 LH Controller

HPE Smart Array P408e-p SR Gen10 Controller

HPE Smart Array P816i-a SR G10 LH Controller

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

### Internal Storage Devices

One of the following depending on model

- Optical Drive: Optional: DVD-ROM, DVD-RW
- Hard Drives: None ship standard

### Maximum Internal Storage

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.0 TB</td>
<td>8+2 x 2.4 TB (with optional 2SFF drive cage)</td>
</tr>
<tr>
<td>20.0 TB</td>
<td>8+2 x 2 TB (with optional 2SFF drive cage)</td>
</tr>
<tr>
<td>56 TB</td>
<td>4 x 14 TB</td>
</tr>
<tr>
<td>56 TB</td>
<td>4 x 14 TB</td>
</tr>
<tr>
<td>153 TB</td>
<td>8+2 x 15.3 TB (with optional 2SFF drive cage)</td>
</tr>
<tr>
<td>7.68 TB</td>
<td>4 x 1.92 TB</td>
</tr>
<tr>
<td>76.8 TB</td>
<td>8+2 x 7.68 TB (with optional 2SFF drive cage)</td>
</tr>
<tr>
<td>76.8 TB</td>
<td>8+2 x 7.68 TB (with optional 2SFF drive cage)</td>
</tr>
</tbody>
</table>
Standard Features

Power Supply
HPE 500W Non Hot Plug Low Halogen FIO Power Supply
**NOTE:** Available in 92% efficiency.
HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
**NOTE:** Available in 94% efficiency.
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
**NOTE:** Available in 94% and 96% efficiency.
**NOTE:** Also available in -48VDC and 227VAC/380VDC power inputs.
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
**NOTE:** Available in 94% efficiency.
**NOTE:** 240v power input only.

The HPE 500W FIO Power Supply offers Gold-certified 80 Plus power efficiency up to 92% with an optimized set of features for non-redundant power configurations for Gen10 ProLiant ML 10/100 Series Servers, as well as ML350 Gen10 and DL325 Gen10.

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

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

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

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

**Interfaces**

<table>
<thead>
<tr>
<th>Interface</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial</td>
<td>Optional, rear</td>
</tr>
<tr>
<td>Video Port</td>
<td>1 Rear VGA Port - Standard</td>
</tr>
<tr>
<td>Network Ports</td>
<td>4 x 1 Gb ports shipping standard with optional FlexibleLOM or stand up card</td>
</tr>
<tr>
<td>HPE iLO Remote Management Network Port</td>
<td>1 Gb Dedicated</td>
</tr>
<tr>
<td>Front iLO Service Port</td>
<td>1 standard</td>
</tr>
<tr>
<td>Micro SD Slot</td>
<td>1 Micro SD</td>
</tr>
</tbody>
</table>

**NOTE:** The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.

USB 3.0 Up to 4 total: 1 front, 2 rear, 1 internal (secure)
Standard Features

Operating Systems and Virtualization Software Support for ProLiant Servers

**Windows Server 2012 R2** (Most Recent Version)

**Windows Server 2016** (Most Recent Version)

**VMware ESXi 6.5 U2 and 6.7**

**Red Hat Enterprise Linux (RHEL) 7.4 and 7.5**

**SUSE Linux Enterprise Server (SLES) 12 SP3**

**ClearOS**

HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive web based graphical user interface that provides a cloud-like experience on-premise, and an Application Marketplace with over 100 apps and growing. Whether you’re starting out or scaling, you decide what applications you need and pay as you grow.

**NOTE:** ClearOS allows you to build a fully functional server that is just right for you at no upfront cost.

For more information on ClearOS, please visit [http://www.hpe.com/servers/clearos](http://www.hpe.com/servers/clearos).

**CentOS**

**NOTE:** CentOS not directly supported / Community Supported (Based on RHEL so RHEL testing and enablement applicable to CentOS) CentOS 7.4 / CentOS 7.5

**NOTE:** For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server [http://www.hpe.com/info/ossupport](http://www.hpe.com/info/ossupport).

Industry Standard Compliance

ACPI 6.1 Compliant

PCIe 3.0 Compliant

WOL Support

Microsoft® Logo certifications

PXE Support

VGA Port

USB 3.0 Compliant (internal)

USB 2.0 Compliant (external ports via SUV)

Energy Star

SMBIOS 3.1

UEFI 2.6

Redfish API

IPMI 2.0

Secure Digital 2.0

Advanced Encryption Standard (AES)

Triple Data Encryption Standard (3DES)

SNMP v3

TLS 1.2

DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)

Active Directory v1.0

ASHRAE A3/A4

**NOTE:** For additional technical thermal details regarding ambient temperatures, humidity and features support please visit [http://www.hpe.com/servers/ashrae](http://www.hpe.com/servers/ashrae).

UEFI (Unified Extensible Firmware Interface Forum)

**NOTE:** UEFI is the default for the DL325 Gen10. Legacy mode can be selected in the field or as a CTO option (758959-B22).
Standard Features

Graphics
Integrated Video Standard
• Video modes up to 1920 x 1200@60Hz (32 bpp)
• 16MB Video Memory
HPE iLO 5 on system management memory
• 32 MB Flash
• 4 Gbit DDR 3 with ECC protection

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

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:
• Secure Boot and Secure Start enable for enhanced security
• Operating system specific functionality
• Support for > 2.2 TB (using GPT) boot drives
• USB 3.0 Stack
• Embedded UEFI Shell
• Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
• PXE boot support for IPv6 networks
• Workload Profiles for simple performance optimization
• UEFI Boot Mode only:
  • TPM 2.0 Support
  • NVMe Boot Support
  • iSCSI Software Initiator Support.
  • HTTP/HTTPS Boot support as a PXE alternative.
  • Boot support for option cards that only support a UEFI option ROM

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

Embedded Management
HPE Integrated Lights-Out (HPE iLO)
Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at http://www.hpe.com/info/ilo.

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

Intelligent Provisioning

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

Server Utilities

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

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

Smart Update
Keep your servers up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP). Learn more at https://buy.hpe.com/b2c/us/en/enterprise-software/infrastructure-management-software/system-server-management-software/hpe-system-server-software-management-software/smart-update-manager-%28sum%29/p/5182020.

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

HPE iLO Mobile Application
Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: [http://www.hpe.com/info/ilo/mobileapp](http://www.hpe.com/info/ilo/mobileapp).

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

Scripting Tools

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

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

Security
UEFI Secure Boot and Secure Start support
Immutable Silicon Root of Trust
FIPS 140-2 validation (iLO 5 certification in progress)
Common Criteria certification (iLO 5 certification in progress)
Configurable for PCI DSS compliance
Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
Support for Commercial National Security Algorithms (CNSA)
Tamper-free updates – components digitally signed and verified
Secure Recovery – recover critical firmware to known good state on detection of compromised firmware
Ability to rollback firmware
Secure erase of NAND/User data
TPM (Trusted Platform Module) 1.2 option
TPM (Trusted Platform Module) 2.0 option
Bezel Locking Kit option
Chassis Intrusion detection 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 is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

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

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

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

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

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

Accelerator and GPU Information
Hewlett Packard Enterprise supports various accelerators on select HPE Proliant servers to support different workloads. The accelerators enable seamless integration of GPU computing with HPE ProLiant servers for high-performance computing, large data center graphics, deep learning and virtual desktop deployments. These accelerators deliver all of the standard benefits of GPU computing while enabling maximum reliability and tight integration with system monitoring and management tools such as HPE Insight Cluster Management Utility.

Rack and Power Infrastructure
The story may end with servers, but it starts with the foundation that makes compute go – and business grow. We’ve reinvented our entire portfolio of rack and power products to make IT infrastructure more secure, more practical, and more efficient. In other words, we’ve created a stronger, smarter, and simpler infrastructure to help you get the most out of your IT equipment. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access.
HPE G2 Advanced and Enterprise Racks are perfect for the server room or today’s modern data center with enhanced airflow and thermal management, flexible cable management, and a 10 year Warranty to support higher density computing.
HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°C, include color-coded outlets and load segments and a low-profile design for optimal access to the rack and support for dense rack environments.
HPE Uninterruptible Power Systems are cost-effective power protection for any type workload. Some UPSs include options for remote management and extended runtime modules so you’re critical dense data center is covered in power outages.
HPE KVM Solutions include a console and switches designed to work with your server and IT equipment reliably. We’ve got a cost-effective KVM switch for your first rack and multiple connection IP switches with remote management and security capabilities to keep your data center rack up and running.
Learn more about HPE Racks, KVM, PDUs and UPSs at [HPE Rack and Power Infrastructure](#).
Optional Features

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

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

Consume IT on your terms
HPE GreenLake Flex Capacity combines the simplicity, agility, and economics of public cloud with the security and performance benefits of on-premises IT. You determine your own “Right Mix” of Hybrid IT and workload placement without having to use. With its agile pay-per-use service, HPE GreenLake Flex Capacity can help your IT organization:
- Avoid IT expenses stemming from overprovisioning
- Improve time to market by maintaining a safe buffer of capacity, ready for use when you need it
- Keep capacity ahead of demand with regular monitoring—and a simple change order to replenish
- Pay for only the capacity used, not the capacity deployed
- Reduce IT risk with tailored support

Connect your devices:
Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Reduce down time and improve diagnostic accuracy with a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

Learn more about getting connected at http://www.hpe.com/services/getconnected

HPE Proactive Care
HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. HPE Proactive Care is available in 3, 4 and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). This Service combines both reactive support when there is a problem with an enhanced call experience and start to finish case management with proactive reporting and advice. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.).

https://www.hpe.com/h20195/v2:GetPDF.aspx/4AA3-8855ENW.pdf

NOTE: HPE Proactive Care requires that the customer connect their devices to HPE to help make the most of these services and receive all the deliverables

HPE Proactive Care Advanced
HPE Proactive Care Advanced incorporates all the deliverables of HPE Proactive Care plus includes personalized support from a local, assigned Account Support Manager who will share best practice advice and personalized recommendations designed to help improve availability and performance to help increase stability and reduce unplanned downtime. Leverage your system's ability to connect to HPE for pre-failure alerts, automatic call logging and parts dispatch. For business critical incidents, Proactive Care Advanced offers critical event management to help reduce mean time to resolution. HPE Service Credits are included to redeem for technical and operational services. HPE Proactive Care Advanced is offered in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR).


NOTE: HPE Proactive Care requires that the customer connect their devices to HPE to help make the most of these services and receive all the deliverables.
Service and Support

**HPE Foundation Care**—(choose the response level that meets your needs)

HPE Foundation Care helps when there is a problem and is available in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). Note that Call-To-Repair Service connects you to HPE 24 hours a day, seven days a week for assistance on resolving issues —this includes our highest level commitment to repair hardware within six hours after opening your case and respond to software questions within two hours. In addition, Collaborative software support is included and provides troubleshooting assistance on industry leading software running on your server. Simplify your support experience and make HPE your first call to help resolve hardware or software problems.


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**Other related Services**

**HPE Server Hardware Installation**

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


**HPE Education Services**

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

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

**HPE Support Center**

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more http://www.hpe.com/support/hpesc

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

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

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

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

**Parts and Materials**

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

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

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

<table>
<thead>
<tr>
<th>SKU Number</th>
<th>Entry Models</th>
<th>Performance Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>P04646-xx1</td>
<td>HPE ProLiant DL325 Gen10 7251 2.1GHz 8-core 1P 8GB-R E208i-a 4LFF 500W PS Entry Server</td>
<td>HPE ProLiant DL325 Gen10 7351P 2.4GHz 16-core 1P 16GB-R E208i-a 8SFF 1x500W PS Performance Server</td>
</tr>
</tbody>
</table>

### Processor
- 7251 (8-Core, 2.1 GHz, 120W)  
- 7351P (16-Core, 2.4 GHz, 155/170W)

### Number of Processors
- One processor  
- One processor

### Memory
- 8 GB RDIMM SR 2666 MT/s (1x 8 GB)  
- 16 GB RDIMM SR 2666 MT/s (2x 8 GB)

### Network Controller
- HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card  
- HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card

### Storage Controller
- E208i-a  
- E208i-a

### Hard Drive
- None ship as standard  
- None ship as standard

### Internal Storage
- 4 LFF chassis  
- 8 SFF Chassis

### Optical Drive Bay
- Optional  
- Optional

### Optical Drive
- None ship as standard  
- None ship as standard

### PCI-Express Slots
- 2-slots (x16, x8) as standard  
- 2-slots (x16, x8) as standard

### Power Supply
- 500W HPE Non-Hot-Plug/Non-RPS Power Supply  
- 1x 500W HPE FlexSlot Power Supply

### Fans
- 5-standard fans  
- 5-performance fans

### Management
- Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download)  
- Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced

### Energy Star
- 2.1 certified

### Form Factor
- 1U Rack, Easy Install rails without CMA

### Warranty
- 3-year parts, 3-year labor, 3-year onsite support with next business day response.
# Pre-configured Models

<table>
<thead>
<tr>
<th>SKU Number</th>
<th>Performance Model</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P04651-xx1</strong></td>
<td>HPE ProLiant DL325 Gen10 7351P 2.4GHz 16-core 1P 16GB-R P408i-a 8SFF 500W RPS Performance Server</td>
</tr>
<tr>
<td><strong>P04648-xx1</strong></td>
<td>HPE ProLiant DL325 Gen10 7401P 2GHz 24-core 1P 32GB-R P408i-a 8SFF 1x800W PS Performance Server</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Name</th>
<th>HPE ProLiant DL325 Gen10 7351P 2.4GHz 16-core 1P 16GB-R P408i-a 8SFF 500W RPS Performance Server</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>7351P (16-Core, 2.4 GHz, 155/170W)</td>
</tr>
<tr>
<td>Number of Processors</td>
<td>One processor</td>
</tr>
<tr>
<td>Memory</td>
<td>16 GB RDIMM DR 2666 MT/s (1x 16 GB)</td>
</tr>
<tr>
<td>Network Controller</td>
<td>HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card</td>
</tr>
<tr>
<td>Storage Controller</td>
<td>P408i-a</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>None ship as standard</td>
</tr>
<tr>
<td>Internal Storage</td>
<td>8 SFF Chassis</td>
</tr>
<tr>
<td>Optical Drive Bay</td>
<td>Optional</td>
</tr>
<tr>
<td>Optical Drive</td>
<td>Optional</td>
</tr>
<tr>
<td>PCI-Express Slots</td>
<td>2-slots (x16, x8) as standard</td>
</tr>
<tr>
<td>Power Supply</td>
<td>1x 500W HPE FlexSlot Power Supply</td>
</tr>
<tr>
<td>Fans</td>
<td>5-performance fans</td>
</tr>
<tr>
<td>Energy Star</td>
<td>2.1 certified</td>
</tr>
<tr>
<td>Form Factor</td>
<td>1U Rack, Easy Install rails without CMA</td>
</tr>
<tr>
<td>Warranty</td>
<td>3-year parts, 3-year labor, 3-year onsite support with next business day response.</td>
</tr>
</tbody>
</table>
### Pre-configured Models

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SMB Solution Model</strong></td>
<td></td>
</tr>
<tr>
<td>[SKU Number]</td>
<td>P04649-B21/291</td>
</tr>
<tr>
<td>Model Name</td>
<td>HPE ProLiant DL325 Gen10 7251 2.1GHz 8-core 1P 16GB-R P408i-a 8SFF 2x500W PS Solution Server</td>
</tr>
<tr>
<td>Processor</td>
<td>7251 (8-Core, 2.1 GHz, 120W)</td>
</tr>
<tr>
<td>Number of Processors</td>
<td>One processor</td>
</tr>
<tr>
<td>Memory</td>
<td>16 GB RDIMM DR 2666 MT/s (1x 16 GB)</td>
</tr>
<tr>
<td>Network Controller</td>
<td>HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card</td>
</tr>
<tr>
<td>Storage Controller</td>
<td>P408i-a</td>
</tr>
<tr>
<td>HARD Drive</td>
<td>None ship as standard</td>
</tr>
<tr>
<td>Internal Storage</td>
<td>8 SFF Chassis</td>
</tr>
<tr>
<td>Optical Drive Bay</td>
<td>Optional</td>
</tr>
<tr>
<td>Optical Drive</td>
<td>Optional</td>
</tr>
<tr>
<td>PCI-Express Slots</td>
<td>2-slots (x16, x8) as standard</td>
</tr>
<tr>
<td>Power Supply</td>
<td>2x 500W HPE FlexSlot power supply</td>
</tr>
<tr>
<td>Fans</td>
<td>5-standard fans</td>
</tr>
<tr>
<td>Software</td>
<td>ClearOS/ClearVM</td>
</tr>
<tr>
<td>Energy Star</td>
<td>2.1 certified</td>
</tr>
<tr>
<td>Form Factor</td>
<td>1U Rack, Easy Install rails without CMA</td>
</tr>
<tr>
<td>Warranty</td>
<td>3-year parts, 3-year labor, 3-year onsite support with next business day response</td>
</tr>
<tr>
<td>Country Code Key</td>
<td>xx1 = B21</td>
</tr>
<tr>
<td></td>
<td>Worldwide</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE:</strong> The -B21 WW SKU is to be ordered in all countries other than Japan.</td>
</tr>
<tr>
<td></td>
<td>xx1 = 291</td>
</tr>
<tr>
<td></td>
<td>Japan</td>
</tr>
<tr>
<td></td>
<td>xx1 = AA1</td>
</tr>
<tr>
<td></td>
<td>PRC</td>
</tr>
</tbody>
</table>
Conf **figuration Information**

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.

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

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

<table>
<thead>
<tr>
<th>CTO Server</th>
<th>HPE ProLiant DL325 Gen10 4 LFF CTO Server</th>
<th>HPE ProLiant DL325 Gen10 8 SFF CTO Server</th>
<th>HPE ProLiant DL325 Gen10 NVMe SFF CTO Server</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKU Number</td>
<td>P04653-B21</td>
<td>P04654-B21</td>
<td>P04662-B21</td>
</tr>
<tr>
<td>TAA SKU</td>
<td>P04652-B21</td>
<td>P04848-B21</td>
<td>P05046-B21</td>
</tr>
<tr>
<td>Processor</td>
<td>Not included as standard</td>
<td>Not included as standard</td>
<td>Not included as standard</td>
</tr>
<tr>
<td>DIMM Slots</td>
<td>16-DIMM slots</td>
<td>16-DIMM slots</td>
<td>16-DIMM slots</td>
</tr>
<tr>
<td>Storage Controller</td>
<td>Choice of HPE modular Smart Array and PCIe plug-in controller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCIe</td>
<td>Two standard in primary riser</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive Cage - included</td>
<td>4 LFF</td>
<td>8 SFF</td>
<td>8 SFF NVMe</td>
</tr>
<tr>
<td>Network Controller</td>
<td>HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fans</td>
<td>5-Standard</td>
<td>5-Performance</td>
<td>7-Performance</td>
</tr>
<tr>
<td>Management</td>
<td>HPE iLO with Intelligent Provisioning (standard), iLO Advances and OneView (optional)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>Front: 1 USB 3.0 + iLO service port</td>
<td>Front: 1 USB 3.0 + iLO service port</td>
<td>Front: 1 USB 3.0 + iLO service port</td>
</tr>
<tr>
<td></td>
<td>Rear: 2 USB 3.0</td>
<td>Rear: 2 USB 3.0</td>
<td>Rear: 2 USB 3.0</td>
</tr>
<tr>
<td></td>
<td>Internal: 1 USB 3.0</td>
<td>Internal: 1 USB 3.0</td>
<td>Internal: 1 USB 3.0</td>
</tr>
</tbody>
</table>

**NOTE:** HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed in a designated country. TAA compliance is only provided when HPE options are included as part of factory integrated orders (CTO).

**NOTE:** TAA chassis are only orderable in North America and Canada.

**NOTE:** The HPE ProLiant DL325 Gen10 NVMe SFF CTO Server ships with the cable required for 8 NVMe drives installation.

**NOTE:** All CTO servers are Energy Star 2.1 compliant.

**NOTE:** CTO servers do not ship with Rail Kits, they need to be ordered separately.
**Configuration Information**

<table>
<thead>
<tr>
<th>CTO Server</th>
<th>8 SFF CTO Chassis</th>
<th>4 LFF CTO Chassis</th>
<th>NVMe SFF CTO Chassis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Included Drive Cage</td>
<td>8 SFF SAS/SATA</td>
<td>4 LFF + UMB</td>
<td>8 NVMe Chassis</td>
</tr>
<tr>
<td>Additional drive cages</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Universal Media Bay</td>
<td>1 Optional</td>
<td>1 Included</td>
<td>1 Optional</td>
</tr>
<tr>
<td>ODD</td>
<td>1 Optional with UMB</td>
<td>1 Optional</td>
<td>1 Optional with UMB</td>
</tr>
<tr>
<td>2 SFF SAS/SATA</td>
<td>1 Optional</td>
<td>Not available</td>
<td>1 Optional</td>
</tr>
<tr>
<td>2 SFF NVMe</td>
<td>1 Optional</td>
<td>Not available</td>
<td>1 Optional</td>
</tr>
</tbody>
</table>

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

**NOTE:** Only one of the 2 SFF SAS/SATA or 2 SFF NVMe can be selected at any time.

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

Please select one – L21 processor required below.

**NOTE:** All CTO Models ship with redundant fan configuration.

**NOTE:** DDR4 memory speed will depend on the quantity and type of DIMMs installed.

**NOTE:** Processors with greater than 170W will ship with the High Performance heatsink.

**Processor Option Kits**

<table>
<thead>
<tr>
<th>Processor Option Kits</th>
<th>Required Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7601 (2.2GHz/32-core/180W) FIO Processor Kit</td>
<td>P04851-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7551P (2.0 GHz/32-core/180W) FIO Processor Kit</td>
<td>P04852-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7501 (2.0GHz/32-core/155-170W) FIO Processor Kit</td>
<td>P04853-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Standard Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7451 (2.3GHz/24-core/180W) FIO Processor Kit</td>
<td>P04854-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7401P (2.0GHz/24-core/155-170W) FIO Processor Kit</td>
<td>P04855-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Standard Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7351P (2.4GHz/16-core/155-170W) FIO Processor Kit</td>
<td>P04856-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Standard Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7301 (2.2GHz/16-core/155-170W) FIO Processor Kit</td>
<td>P04857-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Standard Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7281 (2.1GHz/16-core/155-170W) FIO Processor Kit</td>
<td>P04858-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Standard Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7261 (2.5GHz/8-core/155-170W) FIO Processor Kit</td>
<td>P05918-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Standard Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7251 (2.1GHz/8-core/120W) FIO Processor Kit</td>
<td>P04859-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Standard Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL325 Gen10 AMD EPYC 7371 (3.1GHz/16-core/200W) FIO Processor Kit</td>
<td>P12253-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Standard Heatsink.</td>
<td></td>
</tr>
</tbody>
</table>
QuickSpecs
HPE ProLiant DL325 Gen10 Server

Configuration Information

Step 2b: Choose Memory Options
Please select one or more memory from below.
For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go to:
http://www.hpe.com/docs/amd-population-rules

NOTE: Memory DIMM availability with a server platform is dependent upon completion of certification testing.
NOTE: The maximum memory speed is a function of the memory type, memory configuration, and processor model.

Registered DIMMs (RDIMMs)

- **HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit**
  
- **HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit**
  
- **HPE 32GB (1x32GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit**
  
- **HPE 64GB (1x64GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit**

- **HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit**

- **HPE 64GB (1x64GB) Quad Rank x4 DDR4-2933 CAS-19-19-19 Load Reduced Smart Memory Kit**

- **HPE 128GB (1x128GB) Octal Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit**

Step 2c: Choose Power Supplies
Select one or two power supplies from below.

NOTE: Mixing of 2 different power supplies is NOT allowed.

**HPE ProLiant Gen10 Entry Level Server Power Supplies – Non-Redundant**

- **HPE 500W Low Halogen FIO Power Supply Kit**

  NOTE: This is a Factory Installed Option (FIO) only.

  NOTE: Supports Gold-level efficiency (92%) with a standard C14 inlet connector. No support for HPE Power Discovery Services.

**HPE ProLiant Gen10 Flexible Slot Power Supplies – Redundant**

Select one or two power supplies from below.

NOTE: Mixing of 2 different power supplies is NOT allowed.

NOTE: HPE DL325 Gen10 Redundant Power Supply Enablement Kit (P04983-B21) is mandatory to use any of the following power supplies.

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

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

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

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

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

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

  NOTE: Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at:

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

  NOTE: All power supplies in a server should match. Mixing Power Supplies is not supported.

Step 3: Choose Additional Factory Integratable Options
One of the following from each list may be selected if desired at time of factory integration

**HPE Unique Options**

- **HPE DL325 Gen10 2SFF Smart Array SAS FIO Cable Kit**

  NOTE: This option kit is required to connect the 2SFF FIO Enablement Kit (881179-B21) to E208i-a or P408i-a controller.
### Configuration Information

HPE DL325 Gen10 8SFF Embedded SATA Controller FIO Cable Kit
**NOTE:** This option kit is used with the 8SFF CTO to connect to the embedded SATA controller on mother board.
**NOTE:** The embedded SATA controller works only in the AHCI mode and does not support SW RAID.

HPE DL325 Gen10 2SFF Embedded SATA Controller FIO Cable Kit
**NOTE:** This option kit is used with the 2SFF SAS/SATA FIO Enablement Kit to connect to the embedded SATA controller on mother board.
**NOTE:** The embedded SATA controller works only in the AHCI mode and does not support RAID.

HPE 1U Gen10 4LFF Embedded SATA Controller FIO Cable Kit
**NOTE:** This option kit is used with the 4LFF CTO to connect to the embedded SATA controller on mother board.
**NOTE:** The embedded SATA controller works only in the AHCI mode and does not support SW RAID.

HPE 1U Gen10 2SFF SAS/SATA FIO Enablement Kit without Cables
**NOTE:** This option can be selected only on 8SFF CTO or NVMe SFF CTO.
**NOTE:** This is an FIO option only.
**NOTE:** This option kit will enable 2SFF SAS/SATA drives.

### Security

HPE Gen10 TPM 1.2 FIO Setting
**NOTE:** HPE Trusted Platform Module 2.0 Gen10 Option (864279-B21), if it needs to be operated in TPM 1.2 Mode.

### BIOS Mode

HPE Legacy FIO Mode Setting
**NOTE:** UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.

### HPE Converged Infrastructure Management Software

HPE OneView including 3yr 24x7 Support Physical 1-server LTU

HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU

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

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

HPE Unique Options

HPE DL325 Gen10 PCIe Low Profile Riser Kit
NOTE: This riser cannot be used when Modular Smart Array is chosen.
P04849-B21

HPE DL325 Gen10 2SFF NVMe Enablement Kit
NOTE: This option provides support for up to 2 NVMe drives, and can only be populated in SFF or NVMe model only.
P04979-B21

HPE DL325 Gen10 2SFF SAS/SATA Enablement Kit
NOTE: This option can be selected only on 8SFF CTO or NVMe SFF CTO.
NOTE: This is an Field Upgrade option only.
NOTE: This option kit will enable 2SFF SAS/SATA drives.
NOTE: This option kit contains the necessary cables to connect to controllers
P05050-B21

HPE DL325 Gen10 Serial Port Enablement Kit
NOTE: This kit would take up the position of Slot 3 and thus cannot be selected in conjunction with Low Profile Riser Kit.
P10779-B21

HPE DL325 Gen10 GPU Enablement Kit
NOTE: This option kit requires addition of standard fans if 4LFF model is chosen
NOTE: This option kit requires addition of performance fans if 8LFF model is chosen

Memory Selection

To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability, HPE recommends memory from the list located here: http://www.hpe.com/products/recommend.
Best product availability is limited to US, Canada, and Latin America at this time.

HPE Memory

HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit 838079-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit 838089-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit 838083-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit P05592-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit 838081-B21
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit 838085-B21
HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Smart Memory Kit 838087-B21
NOTE: Memory DIMM availability with a server platform is dependent upon completion of certification testing.
NOTE: The maximum memory speed is a function of the memory type, memory configuration, and processor model.

HPE Optical Drives

HPE 9.5mm SATA DVD-ROM Optical Drive 726536-B21
HPE 9.5mm SATA DVD-RW Optical Drive 726537-B21
HPE DL325 Gen10 4LFF Optical Disk Drive Cable Kit P05968-B21
NOTE: This cable kit must be selected if Optical Drive is chosen on the 4LFF CTO Model
HPE Mobile USB DVD-RW Optical Drive 701498-B21
NOTE: This is only supported on USB 3.0 ports.
HPE 1U Gen10 8SFF Optical Disk Drive Enablement Kit 873961-B21
NOTE: This enablement kit must be selected if Optical Drive is chosen on the 8SFF or NVMe CTO Model
## Core Options

### HPE Drives

#### Enterprise - 12G SAS - SFF Drives

<table>
<thead>
<tr>
<th>Model Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD</td>
<td>P06590-B21</td>
</tr>
<tr>
<td>HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD</td>
<td>P06586-B21</td>
</tr>
<tr>
<td>HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD</td>
<td>P04517-B21</td>
</tr>
<tr>
<td>HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD</td>
<td>P04519-B21</td>
</tr>
<tr>
<td>HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD</td>
<td>P06584-B21</td>
</tr>
<tr>
<td>HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD</td>
<td>P06586-B21</td>
</tr>
<tr>
<td>HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD</td>
<td>P04521-B21</td>
</tr>
<tr>
<td>HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD</td>
<td>P06590-B21</td>
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</table>

#### Midline - 12G SAS - SFF Drives

<table>
<thead>
<tr>
<th>Model Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD</td>
<td>P06588-B21</td>
</tr>
<tr>
<td>HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD</td>
<td>P04519-B21</td>
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#### Enterprise - 12G SAS - LFF Drives

<table>
<thead>
<tr>
<th>Model Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 900GB SAS 12G Enterprise 15K LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware HDD</td>
<td>P06584-B21</td>
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#### Midline - 12G SAS - LFF Drives

<table>
<thead>
<tr>
<th>Model Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD</td>
<td>P06588-B21</td>
</tr>
<tr>
<td>HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD</td>
<td>P04519-B21</td>
</tr>
<tr>
<td>HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD</td>
<td>P06586-B21</td>
</tr>
<tr>
<td>HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD</td>
<td>P04521-B21</td>
</tr>
<tr>
<td>HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD</td>
<td>P09155-B21</td>
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#### Midline - 6G SATA - SFF Drives

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<th>Part Number</th>
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<tbody>
<tr>
<td>HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD</td>
<td>P06588-B21</td>
</tr>
<tr>
<td>HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD</td>
<td>P04519-B21</td>
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#### Midline - 6G SATA - LFF Drives

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<tr>
<th>Model Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD</td>
<td>P06588-B21</td>
</tr>
<tr>
<td>HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD</td>
<td>P04519-B21</td>
</tr>
</tbody>
</table>

#### SSD Selection

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

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

<table>
<thead>
<tr>
<th>Model Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P06588-B21</td>
</tr>
<tr>
<td>HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P04519-B21</td>
</tr>
<tr>
<td>HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P06586-B21</td>
</tr>
<tr>
<td>HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P04519-B21</td>
</tr>
<tr>
<td>HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P06586-B21</td>
</tr>
<tr>
<td>HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P04521-B21</td>
</tr>
<tr>
<td>HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P06590-B21</td>
</tr>
<tr>
<td>HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P04523-B21</td>
</tr>
<tr>
<td>HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD</td>
<td>P06592-B21</td>
</tr>
</tbody>
</table>
Core Options

Mixed Use - 12G SAS - SFF - Solid State Drives
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04525-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09088-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04527-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09090-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04553-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09092-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09094-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04537-B21
HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04539-B21
HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09096-B21

Write Intensive - 12G SAS - SFF - Solid State Drives
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04541-B21
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09098-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04543-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09100-B21
HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04545-B21
HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09102-B21
HPE 3.2TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04547-B21

Mixed Use - 12G SAS - LFF - Solid State Drives
HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD P04531-B21
HPE 1.6TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD P04535-B21

Read Intensive - 12G Value SAS - SFF - Solid State Drives
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10440-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10442-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10444-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10446-B21

Mixed Use - 12G Value SAS - SFF - Solid State Drives
HPE 1.92TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10454-B21
HPE 3.84TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10460-B21

Read Intensive - 6G SATA - SFF - Solid State Drives
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 875503-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18420-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06194-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18422-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06196-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06198-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18426-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04474-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04476-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18424-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04478-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04480-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06200-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18428-B21
HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04482-B21
HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18430-B21
## Core Options

### Read Intensive - 6G SATA - SFF - Solid State Drives
- HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 240GB SAS 12G Mixed Use SC 3yr Wty Value SAS Digitally Signed Firmware SSD
- HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 480GB SAS 12G Mixed Use SC 3yr Wty Value SAS Digitally Signed Firmware SSD
- HPE 960GB SAS 12G Mixed Use SC 3yr Wty Digitally Signed Firmware SSD
- HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD

### Mixed Use - 6G SATA - SFF - Solid State Drives
- HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD
- HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD

### Read Intensive - 6G SATA - LFF - Solid State Drives
- HPE 960GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD

### Mixed Use - 6G SATA - LFF - Solid State Drives
- HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD
- HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD

### Read Intensive - NVMe - SFF - Solid State Drives
- HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD
- HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD
- HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD
- HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD
- HPE 4TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD
- HPE 7.68TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD
- HPE 15.36TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD
## Core Options

### Mixed Use - NVMe - SFF - Solid State Drives
- **HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD** P07179-B21
- **HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD** P10222-B21
- **HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD** P07181-B21
- **HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD** P13699-B21

### Write Intensive - NVMe - SFF - Solid State Drives
- **HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD** 878014-B21
- **HPE 750GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD** P06952-B21

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

### Internal Dual M.2 Kit
- **HPE Universal SATA HHHL 3yr Wty M.2 Kit** 878783-B21

**NOTE:** The Universal SATA M.2 Kit above will require a PCIe slot and support up to two of the same M.2 cards below.

### Read Intensive - M.2 - Solid State Drives
- **HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD** 875498-B21
- **HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD** 875500-B21

### Mixed Use - M.2 - Solid State Drives
- **HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD** 875488-B21
- **HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD** 875490-B21
- **HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD** 875492-B21

### HPE Networking

#### 1 Gigabit Ethernet adapters
- **HPE Ethernet 1Gb 4-port 331T Adapter** 647594-B21
- **HPE Ethernet 1Gb 4-port 366T Adapter** 811546-B21
- **HPE Ethernet 1Gb 2-port 332T Adapter** 615732-B21
- **HPE Ethernet 1Gb 2-port 361T Adapter** 652497-B21

#### 10 Gigabit Ethernet adapters
- **HPE Ethernet 10Gb 2-port 530T Adapter** 656596-B21
- **HPE Ethernet 10Gb 2-port 530SFP Adapter** 652503-B21
- **HPE Ethernet 10Gb 2-port 535T Adapter** 813661-B21
- **HPE Ethernet 10Gb 2-port 562T Adapter** 867707-B21
- **HPE Ethernet 10Gb 2-port 562SFP+ Adapter** 817738-B21
- **HPE Ethernet 10Gb 2-port 524SFP+ Adapter** 867705-B21
- **HPE Ethernet 10Gb 2-port 548SFP+ Adapter** P08446-B21

#### 25 Gigabit Ethernet adapters
- **HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter** 817718-B21
- **HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter** 817753-B21
- **HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter** 867328-B21
Core Options

100 Gigabit Ethernet adapters
HPE Ethernet 100Gb 1-port 842QSFP28 Adapter

NOTE: The DL325 Gen10 ships with 4x 1 Gb Embedded.
NOTE: 4-port adapters go only into Slot 1.
NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

FlexibleLOM adapters
HPE Ethernet 1Gb 4-port 331FLR Adapter
HPE Ethernet 1Gb 4-port 366FLR Adapter
HPE FlexFabric 10Gb 2-port 533FLR-T Adapter
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
HPE Ethernet 10Gb 2-port 535FLR-T Adapter
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter

NOTE: The DL325 Gen10 chassis ships with 4x 1 Gb embedded.
NOTE: Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.

HPE Ethernet 10Gb 2-port 562FLR-T Adapter
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter

NOTE: The DL325 Gen10 chassis ships with 4x 1 Gb embedded.
NOTE: Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.

HPE InfiniBand
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter
HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-OSFP Adapter
HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter
HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+OSFP Adapter
HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter
HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter

Core Options

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

NOTE: Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at:
http://www.hpe.com/info/hppoweradvisor

NOTE: All power supplies in a server should match. Mixing Power Supplies is not supported.
NOTE: Option kits contain the specified power supply and a PDU IEC cable.
NOTE: 1600W power supplies only support high line voltage.
NOTE: HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs).
Visit HPE power cords for a full list of optional HPE power cords.

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865408-B21
NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.
NOTE: HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit 865438-B21
NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.
NOTE: HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865414-B21
NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.
NOTE: HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit 865434-B21
NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.
NOTE: HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 830272-B21
NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).
NOTE: HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

HPE DL325 Gen10 Redundant Power Supply Enablement Kit P04983-B21
NOTE: This enablement kit is required to use the Flex Slot power supplies

HPE DL325 Gen10 RPS Enablement Kit (P04983-B21) is mandatory to use this power supply.

GPU Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Card Supported</th>
<th>Qty Supported</th>
<th>Processor Supported</th>
<th>HPE ProLiant DL325 Gen10 Server Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>R0W29A</td>
<td>HPE NVIDIA Tesla T4 16GB Module</td>
<td>1 (Slot1)</td>
<td>All</td>
<td>4LFF 8SFF 8+2 SFF SAS/SATA 8SFF SAS/SATA+2NVMe 8SFF NVMe SFF NVMe</td>
</tr>
</tbody>
</table>

HPE Computation and Graphics Accelerators

HPE NVIDIA Tesla T4 16GB Computational Accelerator

NOTE: HPE DL325 Gen10 GPU Enablement Kit (P10779-B21) is mandatory to use this accelerator
### Additional Options

**NOTE:** 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 1-server License with 1yr Support on iLO Licensed Features
  - 512485-B21
- HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features
  - 512486-B21
- HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features
  - 512487-B21
- HPE iLO Advanced 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 Flexible Quantity License with 3yr Support on iLO Licensed Features
  - BD506A
- HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features
  - BD507A

#### HPE Converged Infrastructure Management Software

- HPE OneView Physical Media Kit LTU
  - E5Y37A
- HPE OneView including 3yr 24x7 Support Physical 1-server LTU
  - E5Y34A
- HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU
  - E5Y35AAE
- HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU
  - P8B24A
- HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU
  - P8B25A
- HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU
  - P8B26AAE

**NOTE:** Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be [downloaded](#).

#### HPE PCIe Workload Accelerator Options

- HPE 750GB PCIe x4 Lanes Write Intensive HHHL 3yr Wty Digitally Signed Firmware Card
  - 878038-B21
- HPE 1.6TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card
  - P10264-B21
- HPE 3.2TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card
  - P10266-B21
- HPE 6.4TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card
  - P10268-B21

#### HPE Security

- HPE 1U Gen10 Bezel Kit
  - 867998-B21
- HPE Bezel Lock Kit
  - 875519-B21
- HPE Trusted Platform Module 2.0 Gen10 Option
  - 864279-B21

**NOTE:** HPE Trusted Platform Module 2.0 option works with Gen10 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.

**NOTE:** HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

**NOTE:** There is a FIO setting to allow this TPM module to operate in a TPM 1.2 mode (872108-B21).

- HPE 1U Gen10 Chassis Intrusion Detection Kit
  - 866473-B21

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

The Gen10 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10 Smart Array controllers visit the HPE Smart Array Gen10 Controllers Data Sheet.

![Smart Array Controllers Diagram]

**HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit**

**NOTE:** All performance RAID controllers are supported by the HPE Smart Storage Battery (P01366-B21), which supports multiple devices and is sold separately.

- HPE Smart Array P816i-a SR Gen10 (16 Int Lanes/4GB Cache/SmartCache) 12G SAS Modular LH Controller 869083-B21
  **NOTE:** Does not occupy a PCIe expansion slot and includes SmartCache license.
- HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular LH Controller 869081-B21
  **NOTE:** Does not occupy a PCIe expansion slot.
- HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller 804405-B21
- HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller 830824-B21

**Essential RAID Controllers**

- HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804398-B21
- HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804394-B21
- HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular LH Controller 869079-B21
  **NOTE:** Does not occupy a PCIe expansion slot.

**HPE Cable Options**

- HPE DL325 Gen10 10SFF Smart Array SAS Cable Kit P05042-B21
- HPE 1U Gen10 4LFF Smart Array SAS Cable Kit 866452-B21
- HPE 1U Gen10 8SFF Smart Array SAS Cable Kit 866448-B21
- HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit P02377-B21
- HPE DL325 Gen10 4LFF Smart Array S100i SATA FIO Cable Kit P09409-B21
  **NOTE:** HPE DL325 Gen10 4LFF Smart Array S100i SATA FIO Cable Kit must be selected in order to support HPE Smart Array S100i SR Gen10 SW RAID on 4LFF CTO chassis

**Optional Software**

- HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU Q2F26AAE
- HPE Smart Array SR SmartCache (Single Key/Single Server) LTU D7S26A
- HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU D7S27A
- HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU D7S27AAE
  **NOTE:** SmartCache is offered on HPE Smart Array performance RAID controllers and comes standard (no licensing is required) if the HPE Smart Array P816i-a SR Gen10 Controller is installed in the server.
Optional Upgrades

HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit  
NOTE: Provides backup power for multiple HPE Smart Array controllers or other devices. Is required with performance RAID controllers.

HPE Tape Backup

For the complete range of tape drives, autoloaders, libraries and media see:  
For hardware and software compatibility of Hewlett Packard Enterprise tape backup products  

HPE Disk-Based Backup

HPE RDX 1TB External Disk Backup System  
HPE RDX External Docking Station  
HPE RDX 2TB External Disk Backup System

HPE Storage Options

Emulex Fibre Channel HBAs

HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter  
HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter  
HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter  
HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

QLogic Fibre Channel HBAs

HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter  
HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter  
HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter  
HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Converged Network Adapters

HPE StoreFabric CN1100R Dual Port Converged Network Adapter  
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter  
HPE StoreFabric CN1200E 10Gb Converged Network Adapter  
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter  
HPE StoreFabric CN1200R 10GBASE-T Converged Network Adapter  
HPE StoreFabric CN1300R 10/25Gb Dual Port Converged Network Adapter

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

NOTE: 622FLR-SFP28, CN1300R & CN1200R adapters with FCoE used in conjunction with all Red Hat 7.x version OS's are not supported at this time.

HPE Racks

Please see the HPE Advanced Series Racks QuickSpecs for information on additional racks options and rack specifications.  
Please see the HPE Enterprise Series Racks QuickSpecs for information on additional racks options and rack specifications.  
Please see the HPE Standard Series Racks QuickSpecs for information on additional racks options and rack specifications.
Additional Options

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

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

HPE Rack Options
NOTE: Please see the HPE KVM Switches web page for information on these products and their specifications.

Rail Kits
NOTE: Ball bearing and Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.
NOTE: To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (695539-001).
NOTE: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

HPE 1U Small Form Factor Easy Install Rail Kit 734807-B21
NOTE: HPE 1U Cable Management Arm for Rail Kit (734811-B21).
HPE 1U Cable Management Arm for Rail Kit 734811-B21

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards
HPE 32GB microSD Flash Memory Card 700139-B21
HPE 8GB microSD Flash Memory Card 726116-B21
HPE 8GB microSD Flash USB Drive 737953-B21
HPE 8GB Dual microSD Flash USB Drive 741279-B21

HPE Support Services
Proactive Care
HPE 3 Year Proactive Care 24x7 DL325 Gen10 Service HB4H1E
HPE 3 Year Proactive Care 24x7 with DMR DL325 Gen10 Service HB4H2E
HPE 3 Year Proactive Care 24x7 with CDMR DL325 Gen10 Service HB4H3E

Foundation Care
HPE 3 Year Foundation Care 24x7 DL325 Gen10 Service HB4G8E
HPE 3 Year Foundation Care 24x7 with DMR DL325 Gen10 Service HB4G9E
HPE 3 Year Foundation Care 24x7 with CDMR DL325 Gen10 Service HB4H0E

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

NOTE: For a full listing of support services available for this server, please visit https://ssc.hpe.com/
## Memory

### DIMM Type

<table>
<thead>
<tr>
<th>HPE SKU P/N</th>
<th>SKU Description</th>
<th>DIMM Rank -&gt;</th>
<th>DIMM Capacity</th>
<th>Voltage</th>
<th>DRAM depth [bit]</th>
<th>DRAM Width [bit]</th>
<th>CAS Latency</th>
<th>DIMM Native Speed (MT/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>838079-B21</td>
<td>HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit</td>
<td>Single Rank (1R)</td>
<td>8GB</td>
<td>1.2V</td>
<td>1G</td>
<td>x8</td>
<td>19-19-19</td>
<td>2666 MT/s</td>
</tr>
<tr>
<td>838081-B21</td>
<td>HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit</td>
<td>Single Rank (1R)</td>
<td>16GB</td>
<td>1.2V</td>
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<td>19-19-19</td>
<td>2666 MT/s</td>
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<tr>
<td>838083-B21</td>
<td>HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit</td>
<td>Dual Rank (2R)</td>
<td>32GB</td>
<td>1.2V</td>
<td>2G</td>
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<td>2666 MT/s</td>
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<tr>
<td>P05592-B32</td>
<td>HPE 64GB (1x64GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit</td>
<td>Dual Rank (2R)</td>
<td>64GB</td>
<td>1.2V</td>
<td>4G</td>
<td>x4</td>
<td>19-19-19</td>
<td>2666 MT/s</td>
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</table>

### Register DIMM (RDIMM)

<table>
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<tr>
<th>HPE SKU P/N</th>
<th>SKU Description</th>
<th>DIMM Rank -&gt;</th>
<th>DIMM Capacity</th>
<th>Voltage</th>
<th>DRAM depth [bit]</th>
<th>DRAM Width [bit]</th>
<th>CAS Latency</th>
<th>DIMM Native Speed (MT/s)</th>
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<tr>
<td>838079-B21</td>
<td>HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit</td>
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<td>1G</td>
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<td>2G</td>
<td>x4</td>
<td>19-19-19</td>
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<td>4G</td>
<td>x4</td>
<td>19-19-19</td>
<td>2666 MT/s</td>
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</table>

### AMD EPYC® 7000 Processors Officially Supported Memory Speed (MT/s)

<table>
<thead>
<tr>
<th>feature</th>
<th>1 DIMM Per Channel</th>
<th>2 DIMM Per Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMM Native Speed</td>
<td>2666 MT/s</td>
<td>2133 MT/s</td>
</tr>
<tr>
<td>DDR4 Speed</td>
<td>2666 MT/s</td>
<td>2133 MT/s</td>
</tr>
<tr>
<td>DDR4 Speed</td>
<td>2400 MT/s</td>
<td>2133 MT/s</td>
</tr>
<tr>
<td>DDR4 Speed</td>
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<td>2133 MT/s</td>
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<td>DDR4 Speed</td>
<td>2400 MT/s</td>
<td>2133 MT/s</td>
</tr>
</tbody>
</table>
NOTE: The maximum memory speed is a function of the memory type, memory configuration, and processor model.

NOTE: Model 7251 1 DIMM per channel is 2400 MT/s.

For details on the HPE Server Memory speed, visit: [http://www.hpe.com/docs/amd-speed-tables](http://www.hpe.com/docs/amd-speed-tables)

<table>
<thead>
<tr>
<th>DIMM Type</th>
<th>Load Reduced (LRDIMM)</th>
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<tbody>
<tr>
<td>HPE SKU P/N</td>
<td>838085-B21</td>
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<tr>
<td>SKU Description</td>
<td>HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit</td>
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<tr>
<td>DIMM Rank</td>
<td>Quad Rank (4R)</td>
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<tr>
<td>DIMM Capacity</td>
<td>64GB</td>
</tr>
<tr>
<td>Voltage</td>
<td>1.2V</td>
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<tr>
<td>DRAM depth [bit]</td>
<td>2G</td>
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<tr>
<td>DRAM Width [bit]</td>
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<tr>
<td>DRAM Density</td>
<td>8Gb</td>
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<td>CAS Latency</td>
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<td>DIMM Native Speed (MT/s)</td>
<td>2666</td>
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**AMD EPYC® 7000 Processors Officially Supported Memory Speed (MT/s)**

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NOTE: The maximum memory speed is a function of the memory type, memory configuration, and processor model.

NOTE: Model 7251 1 DIMM per channel is 2400 MT/s.

For details on the HPE Server Memory speed, visit: [http://www.hpe.com/docs/amd-speed-tables](http://www.hpe.com/docs/amd-speed-tables)

**DDR4 memory options part number decoder**

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

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

For more information on memory, please see the Memory Quickspecs: [HPE DDR4 SmartMemory](http://www.hpe.com/docs/amd-speed-tables)
Storage

4LFF drives

8SFF + Optional 2SFF (SAS/SATA or NVMe) Shown
Technical Specifications

System Unit

Dimensions
4.29 x 43.46 x 61.49 cm
1.69 x 17.11 x 24.21 in

Weight (approximate)
10 kg
22.05 lb
Minimum: 8 SFF chassis with 8 HDD blanks, 2x Drive Bay blanks, 1x processor including standard heatsink, 2x DIMMs, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above)

15.60 kg
35.27 lb
Maximum: 10 SFF hard drives, 1x processors, 2x power supplies, 1x Smart Array, 2x Risers installed, 16x DIMMs, 2x power supply, cables for the above)

Input Requirements (per power supply)

Rated Line Voltage
100 to 120 VAC
200 to 240 VAC

BTU Rating

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

Power Supply Output (per power supply)

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

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

System Inlet Temperature

Standard Operating Temperature
10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.
System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

Extended Ambient Operating Temperature
For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above sea level to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:
http://www.hpe.com/servers/ashrae
For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:
http://www.hpe.com/servers/ashrae
System performance may be reduced if operating in the extended ambient operating range or with a fan fault.

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

Relative Humidity
- Operating: 8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.
- Non-operating: 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.

Altitude
- Operating: 3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
- Non-operating: 9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

Acoustic Noise
Listed are the declared A-Weighted sound power levels ($L_{WAd}$) and declared average bystander position A-Weighted sound pressure levels ($L_{PAm}$) 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**
- $L_{WAd}$: 4.8 B Entry
- $L_{WAd}$: 4.8 B Base
- $L_{WAd}$: 4.8 B Perf
- $L_{PAm}$: 32 dBA Entry
- $L_{PAm}$: 34 dBA Base
- $L_{PAm}$: 35 dBA Perf

**Operating**
- $L_{WAd}$: 5.2 B Entry
- $L_{WAd}$: 5.2 B Base
- $L_{WAd}$: 5.2 B Perf
- $L_{PAm}$: 37 dBA Entry
- $L_{PAm}$: 38 dBA Base
- $L_{PAm}$: 37 dBA Perf

**NOTE:** Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only.

**NOTE:** Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

**NOTE:** The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.
Technical Specifications

Emissions Classification (EMC) – Regulatory Information
To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:
http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts

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

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

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Version History</th>
<th>Action</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>05-Aug-2019</td>
<td>Version 12</td>
<td>Changed</td>
<td>Configuration Information and Core Options sections were updated.</td>
</tr>
<tr>
<td>01-Jul-2019</td>
<td>Version 11</td>
<td>Changed</td>
<td>SKUs description were updated. The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information.</td>
</tr>
<tr>
<td>03-Jun-2019</td>
<td>Version 10</td>
<td>Changed</td>
<td>Overview, Standard Features, Optional Features, Service and Support, Configuration Information, Core Options, Additional Options and Memory sections were updated.</td>
</tr>
<tr>
<td>15-Apr-2019</td>
<td>Version 9</td>
<td>Changed</td>
<td>Overview, Standard Features, Core Options and Additional Options sections were updated.</td>
</tr>
<tr>
<td>02-Apr-2019</td>
<td>Version 8</td>
<td>Changed</td>
<td>Optional Features section was updated.</td>
</tr>
<tr>
<td>04-Feb-2019</td>
<td>Version 7</td>
<td>Changed</td>
<td>SKUs were updated.</td>
</tr>
<tr>
<td>10-Dec-2018</td>
<td>Version 6</td>
<td>Changed</td>
<td>SKU 829335-B21 was deleted from Core Options section</td>
</tr>
<tr>
<td>03-Dec-2018</td>
<td>Version 5</td>
<td>Changed</td>
<td>Overview and Standard Features sections were updated. SKUs were Added and deleted in Core Options.</td>
</tr>
<tr>
<td>01-Oct-2018</td>
<td>Version 4</td>
<td>Changed</td>
<td>Standard Features, Pre-configured Models, Configuration Information, Additional Options, Memory and Core Options sections were updated. SKUs descriptions were updated.</td>
</tr>
<tr>
<td>13-Aug-2018</td>
<td>Version 3</td>
<td>Added</td>
<td>HPE Support Services section was added to the QuickSpecs.</td>
</tr>
<tr>
<td>06-Aug-2018</td>
<td>Version 2</td>
<td>Changed</td>
<td>Configuration Information – Factory Integrated Models, Core Options, and Additional Options were revised.</td>
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</tbody>
</table>