HPE ProLiant DL380 Gen10 Server QuickSpecs

Adaptable for diverse workloads and environments, the secure 2P 2U HPE ProLiant DL380 Gen10 delivers world-class performance with the right balance of expandability and scalability. Designed for supreme versatility and resiliency while being backed by a comprehensive warranty make it ideal for multiple environments from Containers to Cloud to Big Data. Standardize on the industry’s most trusted compute platform.

**Front View – SFF chassis with optional Universal Media bay with optical and 2 NVME plus 16 NVMe shown**

1. Quick removal access panel
2. Optional Universal Media bay, 2 USB 2.0 and Display port standard (8 SFF bay or 6 SFF+2NVMe or 8 NVMe PCIe SSD optional)
3. Optional Optical drive. Requires Universal Media bay
4. Optional 2 SFF HDD, requires optional Universal Media bay
5. Drive Bay 2. NVMe shown (8 SFF, 6SFF+2NVMe or 8 NVMe PCIe SSD optional)
6. 8 SFF Drive Cage Bay
7. Power On/Standby button and system power LED button
8. Health LED
9. NIC status
10. UID button
11. iLO Front Service Port
12. USB 3.0
13. Serial label pull tag
14. Box 3
15. Box 2
16. Box 1
17. Optional front display port (Via Universal Media Bay)
18. Optional USB 2.0 (via Universal Media Bay)
QuickSpecs

HPE ProLiant DL380 Gen10 Server

Overview

Front View – 8LFF chassis with Universal media bay and optional 2SFF and optical drive shown
1. UID button
2. Health LED
3. NIC status
4. Power On/Standby button and system power LED button
5. Front display port
6. iLO Front Service Port
7. Serial label pull tag
8. Optional optical drive shown (blank as standard)
9. Optional 2 SFF Drive bay, 2 NVMe shown
Internal View 8SFF chassis – with optional 2nd CPU, FlexLOM, Smart array shown

1. Fan cage shown with 6 standard Hot-plug fans (High Performance temperature fans optional)
2. 2 Processors, heatsink showing
3. Optional HPE Smart Storage Battery
4. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)
5. MicroSD card slot (Optional Dual Micro-SD option)
6. Internal USB 3.0 connector
7. Chassis intrusion detection connector
8. Optional HPE Smart Array (P408i-a shown)
9. (Under) Hot Plug redundant HPE Flexible Slot Power supplies
10. Connection for second (optional) riser (Requires second CPU)
11. Embedded 4x1Gbe NIC
12. Primary PCIe riser, standard (Optional double wide GPU riser)
13. Optional Flexible LOM slot
14. X4 SATA ports (1, 2 and 3)
15. Clear air baffle
Rear View – With optional FlexLOM, Rear drives and Serial port shown.

1. Primary Riser. PCI Slots (Slots 1-3 top to bottom, riser shipped standard, not shown), optional 2SFF rear drives
2. Secondary Riser. PCI Slots (Slots 4-6 top to bottom, not shown, requires second riser card, and second processor). Showing optional 2 SFF rear
3. Optional serial port
4. Tertiary Riser (Slots 7-8). Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end)
5. Power supply Power connection
6. Power supply Power LED
7. HPE Flexible Slot Power Supply bay 2 (800W shown)
8. Power supply Power connection
9. Power supply Power LED
10. HPE Flexible Slot Power Supply bay 1 (800W shown)
11. VGA connector
12. Embedded 4 x 1GbE Network Adapter
13. Dedicated iLO management port
14. USB connectors 3.0 (2)
15. Unit ID LED
16. Optional FlexibleLOM ports (Shown: 4 x 1GbE)

What’s New:

- Greater chassis flexibility with up to 20 NVMe drives supported
- 4 LFF Mid-tray bringing total LFF storage capacity to over 190 TB
- HPE Persistent memory at over 1TB scale
- Expanded GPU support to 3xDW or 5xSW cards
- Additional boot/drive/rear options: SATA M.2; dual uFF SSD (2x M.2 cartridges)
- Intel® Xeon® Processor Scalable Family from 4 - 28 Cores; 85 - 205W; 1.8 - 3.6 GHz
- HPE DDR4 SmartMemory up to 2666 MT/s
- Security features: iLO 5 (Security Root of Trust); Chassis Intrusion Detection; TPM 2.0; digitally signed FW
Overview

Platform Information

Form Factor: 2U rack

Chassis Types:
- 8 SFF with optional Universal Media Bay, and optional SFF or NVMe options
- 24 SFF bay with 6SFF rear drive bay options with 30 SFF drive bays total
- 8 LFF with Universal Media Bay
- 12 LFF plus optional 4 LFF mid-plane or 3LFF + 2 SFF drives rear with 19 LFF drive bays total

**NOTE:** The 3 LFF rear drives will consume space for the secondary riser.

**NOTE:** The 12 LFF chassis also supports 2 SFF rear which allows for the second riser.

**NOTE:** The 8 NVMe drive option (826689-B21) can only be leveraged in the SFF chassis and replaces Box 1, 2 or 3, however there is a maximum of 20 NVMe drives supported with Partial population of Box1.

**NOTE:** The Premium cage (826690-B21, 6 SAS/SATA+2 NVMe) can only be leveraged in the SFF chassis and replaces Box 1, 2 or 3.

**NOTE:** The Universal Media Bay (826708-B21) not available with the LFF chassis or the 24 SFF front end, and can only be populated in Box1.

**NOTE:** The 8 SFF can be upgraded with a drive cage to 16 or 24 SFF. For optimal upgrade Box2 should be populated second, with Box 3 the last to be populated for a field upgrade to 24 SFF. For CTO builds requiring 24 SFF please use the 24 SFF chassis (868704-B21). Note a field upgrade to 24 SFF will require a High Performance fan kit (867810-B21).

**NOTE:** The 8 LFF chassis cannot be upgraded to 12 LFF front in the field; however the 4-LFF Mid plane (826686-B21) is supported, but will also require a performance fan kit (867810-B21).

**NOTE:** All models come with the S100i Smart Array Controller with embedded software RAID support for 12 drives. The S100i uses 14 embedded SATA ports, but only 12 ports are accessible as 2 are leveraged to support the 2 M.2 options on the primary riser.

System Fans:

Standard – fan types included

**NOTE:** 1P models typically ship with 4 standard fans. The second processor option kit contains 2 additional fans.

**NOTE:** The 12 LFF and 24 SFF chassis ship with 6 High performance fans as standard.

**NOTE:** High performance fan kit is available to meet ambient temperature environments.

**NOTE:** High performance fan kits are required for rear drives or NVMe configurations.
Standard Features

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

**NOTE:** For more information regarding Intel Xeon processors, please see the following [http://www.intel.com/xeon](http://www.intel.com/xeon)

<table>
<thead>
<tr>
<th>Intel Xeon Models</th>
<th>CPU Frequency</th>
<th>Cores</th>
<th>L3 Cache</th>
<th>Power</th>
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<th>DDR4</th>
<th>Memory per socket</th>
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Standard Features

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<th>Cores</th>
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<th>TDP</th>
<th>Memory speed</th>
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</table>

**NOTE:** Platinum – 8100 Series – 2 Socket supports 2UPI, supports 6-Channel DDR4 @ 2666 MT/s providing up to 768GB memory capacity (1.5 TB on select processor skus). Intel Turbo Boost Technology, Intel Hyper-Threading Technology supported. Intel AVX-512 (2x 512-bit FMA), 48 lanes PCIe 3.0, advanced RAS.

**NOTE:** Gold – 5100, 6100 Series - 2 Socket supports 2UPI, supports 6-Channel DDR4 @ 2400 MHz (SKU 5122=supports 2666) providing up to 768GB memory capacity (1.5 TB on select skus). Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512(1x 512-bit FMA) (SKU 5122 supports 2x 512 bit FMA), 48 lanes PCIe 3.0, advanced RAS supported.

**NOTE:** Silver – 4100 Series - 2 Socket supports 2UPI @ 9.6 GT/s, 6-Channel DDR4 @ 2400 MHz providing up to 768 GB memory capacity. Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512(1x 512-bit FMA), 48 lanes PCIe 3.0, standard RAS supported.

**NOTE:** Bronze – 3100 Series - 2 Socket supports 2UPI @ 9.6 GT/s, supports 6-Channel DDR4 @ 2133 MHz providing up to 768GB memory capacity. Intel AVX-512(1x 512-bit FMA), 48 lanes PCIe 3.0, standard RAS supported.

Chipset

Intel C621 Chipset

**NOTE:** For more information regarding Intel® chipsets, please see the following URL:
http://www.intel.com/products/server/chipsets/

On System Management Chipset

HPE iLO 5 ASIC

**NOTE:** Read and learn more in the iLO QuickSpecs

Memory

One of the following depending on model

Type:

- HPE DDR4 SmartMemory, Registered (RDIMM), Load Reduced (LRDIMM)

DIMM Slots Available: 12

12 DIMM slots per processor, 6 channels per processor, 2 DIMMs per channel

Maximum capacity (LRDIMM): 1.5 TB

24 x 64 GB LRDIMM @ 2600 MHz

Maximum capacity (RDIMM): 768 GB

24 x 32 GB RDIMM @ 2600 MHz

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

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

Memory Protection

For details on the HPE Server Memory Options RAS feature, visit: http://www.hpe.com/docs/memory-ras-feature.

Expansion Slots

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<th>Slots #</th>
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<th>Bus Width</th>
<th>Connector Width</th>
<th>Slot Form Factor</th>
<th>Notes</th>
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<td>1</td>
<td>PCIe 3.0</td>
<td>X8</td>
<td>X8</td>
<td>Full-height, half-length slot</td>
<td>Proc 1</td>
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<td>2</td>
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Standard Features

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<td>PCIe 3.0</td>
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**NOTE:** Bus Width Indicates the number of physical electrical lanes running to the connector.
**NOTE:** This riser also supports dual m.2 cards.

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:** The S100i uses 14 embedded SATA ports, but only 12 ports are accessible as 2 are leveraged to support the 2 M.2 options on the primary riser.

**Essential RAID Controller**
- HPE Smart Array E208i-a SR Gen10 Controller
- HPE Smart Array E208i-p SR Gen10 Controller
- HPE Smart Array E208e-p SR Gen10 Controller

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

**NOTE:** Performance RAID Controllers require the HPE Smart Storage Battery (875241-B21) which is sold separately.

Internal Storage Devices

One of the following depending on model

**Optical Drive**
- Ships standard in Performance Models
- Optional: DVD-ROM, DVD-RW

**Hard Drives**
- None ship standard
Standard Features

Maximum Internal Storage

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Capacity</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot Plug SFF SAS</td>
<td>72.0 TB</td>
<td>24+6 x 2.4 TB* (with optional rear SFF drive cage)</td>
</tr>
<tr>
<td>Hot Plug SFF SATA</td>
<td>52.0 TB</td>
<td>24+2 x 2 TB (with optional SFF drive cage)</td>
</tr>
<tr>
<td>Hot Plug LFF SAS</td>
<td>197.68 TB</td>
<td>12+4 x 3 x 10 TB + 2 x 3.84 TB (with optional mid tray and LFF drive cage, plus 2 SFF SSD rear)</td>
</tr>
<tr>
<td>Hot Plug LFF SATA</td>
<td>197.68 TB</td>
<td>12+4 x 3 x 10 TB + 2 x 3.84 TB (with optional mid tray and LFF drive cage, plus 2 SFF SSD rear)</td>
</tr>
<tr>
<td>Hot Plug SFF SAS SSD</td>
<td>115.2 TB</td>
<td>24+6 x 3.84 TB (with optional rear SFF drive cage)</td>
</tr>
<tr>
<td>Hot Plug LFF SATA SSD</td>
<td>44.16 TB</td>
<td>12+4 x 3 x 1.92 TB + 2 x 3.84 TB (with optional mid tray and LFF drive cage, plus 2 SFF SSD rear)</td>
</tr>
<tr>
<td>Hot Plug SFF NVMe PCIe SSD</td>
<td>40 TB NVMe</td>
<td>20 x 2 TB NVMe</td>
</tr>
</tbody>
</table>

*NOTE: 2.4 TB SFF SAS drives coming 2H 2017.*

Power Supply

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.

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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial</td>
<td>Optional, rear</td>
</tr>
<tr>
<td>Display Port</td>
<td>1 (SFF 1 front, optional via Universal Media Bay, 826708-B21), 8 LFF chassis standard</td>
</tr>
<tr>
<td>FlexibleLOM 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 (Not available on 12 LFF chassis or when SID is ordered)</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 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay, or standard on 8LFF chassis |

SID (Systems Insight Display)         | Optional                                                        |
Standard Features

NOTE: Not shipping as standard. Available as a CTO option or as a field upgrade (826703-B21).

Operating Systems and Virtualization Software Support for ProLiant Servers

Windows Server 2012 R2 (Most Recent Version)
Windows Server 2016 (Most Recent Version)
VMware ESXi 6.0 U3
VMware ESXi 6.5 and U1 upon release
Red Hat Enterprise Linux (RHEL) 6.9 and 7.3
SUSE Linux Enterprise Server (SLES) 11 SP4 and 12 SP2

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.

CentOS
NOTE: CentOS not directly supported / Community Supported (Based on RHEL so RHEL testing and enablement applicable to CentOS) CentOS 6.9 / CentOS 7.3.

Industry Standard Compliance

ACPI 6.1 Compliant
PCle 3.0 Compliant
WOL Support
Microsoft® Logo certifications
PXE Support
VGA Display Port

NOTE: This support is on the optional Universal Media Bay.
USB 3.0 Compliant (internal)
USB 2.0 Compliant (external ports via SUV)

NOTE: This support is on the optional Universal Media Bay.

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
Standard Features

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

UEFI (Unified Extensible Firmware Interface Forum)

NOTE: UEFI is the default for the DL380 Gen10. Legacy mode can be selected in the field or as a CTO option (758959-B22).

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.

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

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

- Secure Boot and Secure Start enable for enhanced security
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- PXE boot support for IPv6 networks
- Workload Profiles for simple performance optimization

UEFI Boot Mode only:

- TPM 2.0 Support
- NVMe Boot Support
- Platform Trust Technology (PTT) can be enabled.
- iSCSI Software Initiator Support.
- HTTP/HTTPS Boot support as a PXE alternative.
- Boot support for option cards that only support a UEFI option ROM

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

NOTE: UEFI FIO 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


Intelligent Provisioning

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


**iLO RESTful API**

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

**Server Utilities**

### Active Health System

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

### iLO Amplifier Pack

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

## Security

- UEFI Secure Boot and Secure Start support
- Immutable Silicon Root of Trust
- FIPS 140-2 validation (iLO 5 certification in progress)
Standard Features

- 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 Care Pack 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.

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. Learn more about HPE iLO Advanced at [http://www.hpe.com/servers/iloadvanced](http://www.hpe.com/servers/iloadvanced).

**HPE iLO Advanced Premium Security Edition**


**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 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).

**HPE Insight Control**

HPE Insight Control is recommended for current implementation on HPE Servers to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see [http://www.hpe.com/info/insightcontrol](http://www.hpe.com/info/insightcontrol).

Accelerator and GPGPU 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°, 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
Optional Features

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](https://www2.hpe.com/SimplifiedConfig/Welcome#).

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.

Service and Support

HPE Pointnext - Service and Support

Protect your business beyond warranty with HPE Support Services
HPE Pointnext provides a comprehensive portfolio including Advisory and Transformational, Professional, and Operational Services to help accelerate your digital transformation. From the onset of your transformation journey, Advisory and Transformational Services focus on designing the transformation and creating a solution roadmap. Professional Services specializes in creative configurations with flawless and on-time implementation, and on-budget execution. Finally, operational services provides innovative new approaches like Flexible Capacity and Datacenter Care, to keep your business at peak performance. HPE is ready to bring together all the pieces of the puzzle for you, with an eye on the future, and make the complex simple.

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

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 on 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 HPE experts, access support resources or collaborate with peers. Learn more http://www.hpe.com/support/hpesc

HPE's 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.

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

For more information: http://www.hpe.com/services
## Pre-configured Models

<table>
<thead>
<tr>
<th>Entry Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKU Number</td>
</tr>
<tr>
<td>Processor</td>
</tr>
<tr>
<td>Number of Processors</td>
</tr>
<tr>
<td>Memory</td>
</tr>
<tr>
<td>Network Controller</td>
</tr>
<tr>
<td>Storage Controller</td>
</tr>
<tr>
<td>Hard Drive</td>
</tr>
<tr>
<td>Internal Storage</td>
</tr>
<tr>
<td>Optical Drive Bay</td>
</tr>
<tr>
<td>Optical Drive</td>
</tr>
<tr>
<td>PCI-Express Slots</td>
</tr>
<tr>
<td>Power Supply</td>
</tr>
<tr>
<td>Fans</td>
</tr>
<tr>
<td>Management</td>
</tr>
<tr>
<td>Energy Star</td>
</tr>
<tr>
<td>Form Factor</td>
</tr>
<tr>
<td>Warranty</td>
</tr>
</tbody>
</table>
## Pre-configured Models

<table>
<thead>
<tr>
<th>Base Models</th>
<th>Base Models</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SKU Number</strong></td>
<td>868710-xx1</td>
</tr>
<tr>
<td><strong>Model Name</strong></td>
<td>Base LFF</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>4110 (8-Core, 2.1 GHz, 85W)</td>
</tr>
<tr>
<td><strong>Number of Processors</strong></td>
<td>One processor</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>32 GB RDIMM DR 2600 MT/s (2x 16 GB) <strong>NOTE:</strong> running at 2400 MT/s due to Processor limitation.</td>
</tr>
<tr>
<td><strong>Network Controller</strong></td>
<td>Embedded 4-Port 1GbE</td>
</tr>
<tr>
<td><strong>Storage Controller</strong></td>
<td>P816i-a <strong>NOTE:</strong> 16-Port modular Smart Array. <strong>NOTE:</strong> Smart Storage battery included.</td>
</tr>
<tr>
<td><strong>Hard Drive</strong></td>
<td>None ship as standard</td>
</tr>
<tr>
<td><strong>Internal Storage</strong></td>
<td>8 LFF chassis, with 2 SFF bays optional</td>
</tr>
<tr>
<td><strong>Optical Drive Bay</strong></td>
<td>Optional via Universal Media Bay (included)</td>
</tr>
<tr>
<td><strong>Optical Drive</strong></td>
<td>None ship as standard</td>
</tr>
<tr>
<td><strong>PCI-Express Slots</strong></td>
<td>3-slots (x8, x16, x8) as standard</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>2x 800W HPE FlexSlot power supply</td>
</tr>
<tr>
<td><strong>Fans</strong></td>
<td>6-High Performance fans</td>
</tr>
</tbody>
</table>
| **Management** | HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download); HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, Insight Control and HPE OneView Advanced (require licenses) | \n
**Energy Star** | 2.1 certified |
**Form Factor** | 2U Rack |
**Warranty** | 3-year parts, 3-year labor, 3-year onsite support with next business day response |
### Pre-configured Models

<table>
<thead>
<tr>
<th><strong>Performance Models</strong></th>
<th><strong>High Performance Models</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>[SKU Number]</td>
<td>826566-xx1</td>
</tr>
<tr>
<td><strong>Model Name</strong></td>
<td>Performance</td>
</tr>
<tr>
<td>Processor</td>
<td>5118 (12-Core, 2.3 GHz, 105W)</td>
</tr>
<tr>
<td>Number of Processors</td>
<td>Two processors</td>
</tr>
<tr>
<td>Memory</td>
<td>64 GB RDIMM DR 2666 MT/s (2x 32 GB)</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE:</strong> running at 2400 MT/s due to processor limitation.</td>
</tr>
<tr>
<td>Network Controller</td>
<td>Embedded 4-Port 1GbE, plus HPE Ethernet 10/25 Gb 2-port 640FLR-SFP28 Adapter (817749-B21)</td>
</tr>
<tr>
<td>Storage Controller</td>
<td>P408i-a</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE:</strong> 8-Port modular Smart Array.</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE:</strong> Smart Storage battery included.</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>None ship as standard</td>
</tr>
<tr>
<td>Internal Storage</td>
<td>8 SFF Chassis (upgradeable to 24 SFF front)</td>
</tr>
<tr>
<td>Optical Drive Bay</td>
<td>Universal Media Bay (826708-B21)</td>
</tr>
<tr>
<td>Optical Drive</td>
<td>DVD-RW</td>
</tr>
<tr>
<td>PCI-Express Slots</td>
<td>6 total: 3-slots (x8, x16, x8 with m.2) as standard, plus 3 PCIe (x8, x16, x8)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>2x 800W HPE FlexSlot power supply</td>
</tr>
<tr>
<td>Fans</td>
<td>6-standard fans</td>
</tr>
<tr>
<td>Management</td>
<td>HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download), HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, Insight Control and HPE OneView Advanced (require licenses)</td>
</tr>
<tr>
<td>Energy Star</td>
<td>2.1 certified</td>
</tr>
<tr>
<td>Form Factor</td>
<td>2U Rack</td>
</tr>
<tr>
<td>Warranty</td>
<td>3-3-3</td>
</tr>
</tbody>
</table>

**Country Code Key**

- xx1 = B21 Worldwide

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

- xx1 = 291 Japan
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 DL380 Gen10 8 LFF CTO Server</th>
<th>HPE ProLiant DL380 Gen10 12 LFF CTO Server</th>
<th>HPE ProLiant DL380 Gen10 8 SFF CTO Server</th>
<th>HPE ProLiant DL380 Gen10 24 SFF CTO Server</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKU Number</td>
<td>868706-B21</td>
<td>868705-B21</td>
<td>868703-B21</td>
<td>868704-B21</td>
</tr>
<tr>
<td>TAA SKU</td>
<td>875784-B21</td>
<td>875785-B21</td>
<td>875782-B21</td>
<td>875783-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>
<td>Not included as standard</td>
</tr>
<tr>
<td>DIMM Slots</td>
<td>24-DIMM slots</td>
<td>24-DIMM slots</td>
<td>24-DIMM slots</td>
<td>24-DIMM slots</td>
</tr>
<tr>
<td>Storage Controller</td>
<td>Embedded SW RAID with 14 SATA ports, choice of HPE modular Smart Array and PCIe plug-in controller</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCIe</td>
<td>Three standard in primary riser (with dual M.2 support)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive Cage - included</td>
<td>8 LFF</td>
<td>12 LFF</td>
<td>8 SFF</td>
<td>24 SFF</td>
</tr>
<tr>
<td>Network Controller</td>
<td>Embedded 4x1GbE with optional HPe FlexLOM and optional Standup card</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fans</td>
<td>4-Standard</td>
<td>6-High Performance</td>
<td>4-Standard</td>
<td>6-Performance</td>
</tr>
<tr>
<td>Management</td>
<td>HPE iLO with Intelligent Provisioning (standard), iLO Advances and OneView (optional)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>1x 3.0 standard plus iLo front service port</td>
<td>None as standard</td>
<td>1x 3.0 standard plus iLo front service port</td>
<td>1x 3.0 standard plus iLo front service port</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:** The HPE ProLiant DL380 Gen10 12 LFF CTO Server ships with the cable required for the P816i-a installation.
## Step 2a: Choose Required Options - Processors

(only one of the following unless otherwise noted)

Please select one – L21 processor required below.

For second processor, please select the same processor model with –B21 from Core Options – HPE Processors section. For example: first processor, select 874752-L21 then for second processor, select 874752-B21.

### NOTE:
- 1P models typically ship with 4 standard fans. The second processor option kit contains 2 additional fans. 12 LFF and 24 SFF CTO Servers ship with 6 High performance fans as standard. High performance fan kit is available to meet ambient temperature environments are are required for rear drives or NVMe configurations.
- Maximum memory capacity per processor is dependent on processor models. All processors support up to 768 GB max memory per processor except “M” model processors will support up to 1.5 TB max memory per processor.
- Mixing of 2 different processor models are NOT allowed.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.
- Processors with 130W or higher will ship with the High Performance heat sink plus SKUs 8156, 6128, 5122 as noted below. All other will processors will ship with the Standard heat sink.

### Processor Option Kits

<table>
<thead>
<tr>
<th>Processor Option</th>
<th>Required Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8180M (2.5GHz/28-core/205W) FIO Processor Kit</td>
<td>874752-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8180 (2.5GHz/28-core/205W) FIO Processor Kit</td>
<td>871619-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8176M (2.1GHz/28-core/165W) FIO Processor Kit</td>
<td>874754-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8176 (2.1GHz/28-core/165W) FIO Processor Kit</td>
<td>871618-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8170M (2.1GHz/26-core/165W) FIO Processor Kit</td>
<td>874756-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8170 (2.1GHz/26-core/165W) FIO Processor Kit</td>
<td>871617-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8168 (2.7GHz/24-core/205W) FIO Processor Kit</td>
<td>869089-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8164 (2.0GHz/26-core/145W) FIO Processor Kit</td>
<td>869088-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8160M (2.1GHz/24-core/145W) FIO Processor Kit</td>
<td>874758-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8160 (2.1GHz/24-core/150W) FIO Processor Kit</td>
<td>869086-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8158 (3.0GHz/12-core/150W) FIO Processor Kit</td>
<td>869090-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8156 (3.6GHz/4-core/105W) FIO Processor Kit</td>
<td>871616-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Platinum 8153 (2.0GHz/16-core/125W) FIO Processor Kit</td>
<td>826890-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Gold 6154 (3.0GHz/18-core/200W) FIO Processor Kit</td>
<td>826888-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
<tr>
<td>HPE DL380 Gen10 Intel® Xeon-Gold 6152 (2.1GHz/22-core/140W) FIO Processor Kit</td>
<td>826886-L21</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Ships with Performance Heatsink.</td>
<td></td>
</tr>
</tbody>
</table>
Configuration Information - Factory Integrated Models

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6150 (2.7GHz/18-core/165W) FIO Processor Kit 826884-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6148 (2.4GHz/20-core/150W) FIO Processor Kit 826882-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6142M (2.6GHz/16-core/150W) FIO Processor Kit 874760-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6142 (2.6GHz/16-core/150W) FIO Processor Kit 826880-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6140M (2.3GHz/18-core/135W) FIO Processor Kit 874762-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6140 (2.3GHz/18-core/150W) FIO Processor Kit 826878-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6138 (3.2GHz/20-core/125W) FIO Processor Kit 826876-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6136 (3.0GHz/12-core/150W) FIO Processor Kit 826874-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6134M (3.2GHz/8-core/130W) FIO Processor Kit 873645-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6134 (3.2GHz/8-core/130W) FIO Processor Kit 826872-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6132 (2.6GHz/14-core/140W) FIO Processor Kit 826870-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6130 (2.1GHz/16-core/120W) FIO Processor Kit 826866-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6128 (3.4GHz/6-core/115W) FIO Processor Kit 826864-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6126 (2.6GHz/12-core/120W) FIO Processor Kit 826862-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 5118 (2.3GHz/12-core/105W) FIO Processor Kit 826856-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 5115 (2.4GHz/10-core/85W) FIO Processor Kit 876562-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Silver 4116 (2.1GHz/12-core/85W) FIO Processor Kit 826852-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Silver 4114 (2.2GHz/10-core/85W) FIO Processor Kit 826850-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Silver 4112 (2.6GHz/4-core/85W) FIO Processor Kit 873647-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor Kit 826846-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Silver 4108 (1.8GHz/8-core/85W) FIO Processor Kit 826848-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Bronze 3106 (1.7GHz/8-core/85W) FIO Processor Kit 873643-L21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Bronze 3104 (1.7GHz/6-core/85W) FIO Processor Kit 873641-L21

**NOTE:** Processors above 130W use a High Performance Heatsink, along with the 8156, 6128 and 5122.

Step 2b: Choose Memory Options

Please select one or more memory from below.
For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go to: [https://www.hpe.com/docs/memory-population-rules](https://www.hpe.com/docs/memory-population-rules)

For Gen10 memory speed table, please go to: [https://www.hpe.com/docs/memory-speed-table](https://www.hpe.com/docs/memory-speed-table)

For memory Reliability, Accessibility, Serviceability (RAS) features whitepaper like Gen10 Fast Fault Tolerance and legacy mirrored memory feature etc. please go to: [http://www.hpe.com/docs/memory-ras-feature](http://www.hpe.com/docs/memory-ras-feature)
Configuration Information - Factory Integrated Models

**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 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Memory Kit 815097-B21
- HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Memory Kit 815098-B21
- HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Memory Kit 835955-B21
- HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Memory Kit 815100-B21
- HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Memory Kit 815101-B21

**Step 2c: Choose Power Supplies**

Select one or two power supplies from below.

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

- HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865408-B21
- HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit 865438-B21
- HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit 865428-B21
- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865414-B21
- HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit 865434-B21
- HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 830272-B21

**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 DL38X Gen10 Slot 1/2 x16/x16 FIO Riser Kit 871674-B21
  - **NOTE:** Slot 1 or 2 in Primary location.
  - **NOTE:** Supports Full Height and Full length cards.
  - **NOTE:** Bus width x16, x16, Connector Width x16, x16.
- HPE DL38X Gen10 x16/x16 GPU Slot2/3 FIO Riser Kit 871676-B21
  - **NOTE:** Primary Riser, Connector in slot 2 & 3 for GPU support.
  - **NOTE:** Supports Full Height and Full length cards.
  - **NOTE:** Bus width x16, x16, Connector Width x16, x16.
- HPE 4 NVMe Box 1 Instr Spec FIO 878186-B21
  - **NOTE:** Supports 3x 8 and 1-port for NVMe.
  - **NOTE:** Supports Full Height and half-length cards.
  - **NOTE:** Bus width x8, x8, x8 Connector Width x8, x8, x8.
- HPE DL38X Gen10 4-port 8 NVMe Slim SAS FIO Riser 867807-B21
  - **NOTE:** Riser supporting up to 8 NVMe drives in Primary location.
  - **NOTE:** Bus width x8, x8, x8 Connector Width x8, x8, x8.
  - **NOTE:** This is a factory integrated only option.
  - **NOTE:** Will connect a 8SFF NVMe cage to only be connected to 4 drives of the tertiary riser for max 20 NVMe support.
- HPE 2 NVMe Instr Spec FIO 878189-B21
  - **NOTE:** This is a factory integrated only option.
  - **NOTE:** Indicates the cage will also have an NVMe connection.
- HPE 6+2 NVMe Instr Spec FIO 878192-B21
  - **NOTE:** This is a factory integrated only option.
- HPE 8SFF Front Remove SPEC Perf FIO 873763-B21
  - **NOTE:** This is a factory integrated only option.
  - **NOTE:** Will remove the Primary 8SFF cage in Box 3 of the 8SFF and replace with a Box blank.
Configuration Information - Factory Integrated Models

HPE Riser Remove SPEC FIO 873766-B21

**NOTE:** This is a factory integrated only option.
**NOTE:** Will remove the Primary shipping PCIe riser.

HP Legacy FIO Mode Setting 758959-B22

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

HPE Insight Software

- HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU C6N36A
- HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO E-LTU C6N36ABE

HPE Converged Infrastructure Management Software

- HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU E5Y43A
- HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU P8B31A

Step 4: Choose additional options for Factory Integration from Core and Additional Options sections below
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. Note the Cabling Matrix can help to explain the cable routing for each option:

### HPE Unique Options

**HPE DL38X NVMe 8 Solid State Drive Express Bay Enablement Kit**  
826689-B21  
**NOTE:** This option provides support for up to 8 NVMe drives, and can only be populated in Box 1, Box 2 and Box 3 of the SFF chassis only, note Box 1 can only be partially populated with four drives.  
**NOTE:** The HPE DL380 Gen10 High Performance fan kit is required for NVMe support (867810-B21).  
**NOTE:** The HPE DL38X Gen10 4-port 8 NVMe Slimline Riser (867807-B21) is required to support this, with the exception of in Box 1 when the HPE DL38X Gen10 x8/x8/x8 1-port two NVMe Slimline Riser Kit (871673-B21) is required.  
**NOTE:** There are limitations on GPU support with the NVMe bay installed.

**HPE DL38X Gen10 Universal Media Bay Kit**  
826708-B21  
**NOTE:** The HPE DL380 Gen10 Universal Media bay provides front Display Port and 2xUSB 2.0; plus support for 2x SFF front drives (826688-B21) or 2 NVMe front drives (826687-B21, riser required) and ODD support (Not included); and can only be located in Box1 in either an 8 SFF or 8+8 SFF model.  
**NOTE:** This is a SFF model option only.

**HPE DL38X Gen10 Premium 6 SFF SAS/SATA + 2 NVMe or 8 SFF SAS/SATA Bay Kit**  
826690-B21  
**NOTE:** This kit can be supported in Box 1, 2 or 3 and provides support for up to 8 SFF SAS/SATA or 6 SAS/SATA + 2 NVMe drives per Box.  
**NOTE:** With NVMe drives a specific riser is required.  
**NOTE:** When adding to Box 1 the addition of the High Performance Fan kit (867810-B21) is required.

**HPE DL38X Gen10 High Performance Temperature Fan Kit**  
867810-B21  
**NOTE:** This kit is required for specific Ambient temperature environments coming in 2H2017.  
**NOTE:** This kit is also required to support Passive GPUs.  
**NOTE:** This is required for NVMe configurations.  
**NOTE:** This kit provides maximum cooling for your Server.  
**NOTE:** This kit is required when Box 1, 2 and 3 are populated.

**HPE DL38X Gen10 2SFF HDD SAS/SATA Riser Kit**  
826688-B21  
**NOTE:** 2 SFF in the rear is only supported with a 24 SFF field model or a 12 LFF model.  
**NOTE:** In the rear this leaves 1x8 slot accessible.  
**NOTE:** With NVMe drives a specific riser is required.  
**NOTE:** If supporting NVMe drives the addition of the High Performance Fan kit (867810-B21) is required.

**HPE DL38X Gen10 2SFF Premium HDD Front NVMe/SAS/SATA Kit**  
826687-B21  
**NOTE:** For 2 SFF front in the Universal Media Bay (826708-B21).  
**NOTE:** Can be leveraged for rear 2 SFF drive support.  
**NOTE:** Required an additional riser to support for NVMe drives.

**HPE DL38X Gen10 8LFF Front 2SFF SAS/SATA HDD Kit**  
867805-B21  
**NOTE:** Adds support for 2 SFF in front of 8 LFF chassis (868706-B21).  
**NOTE:** Adds support for 2 NVMe in front of 8 LFF chassis (868706-B21), required additional riser.

**HPE DL38X Gen10 12Gb SAS Expander Card Kit with Cables**  
870549-B21  
**NOTE:** SAS expander to enable 24 SFF field upgrade.  
**NOTE:** Primary population in slot 2 or 3 of the primary riser.

**HPE DL380 Gen10 SFF Systems Insight Display Kit**  
826703-B21  
**NOTE:** Systems Insight Display no longer ships as standard but is available as a Factory Integrated or field upgrade option.

**HPE DL38X Gen10 Rear Serial Cable Kit**  
873770-B21
Core Options

Processor Option Kits

- HPE DL380 Gen10 Intel® Xeon-Platinum 8180M (2.5GHz/28-core/205W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 874752-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8180 (2.5GHz/28-core/205W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 871619-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8180 (2.5GHz/28-core/205W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 871619-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8176M (2.1GHz/28-core/165W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 874754-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8176 (2.1GHz/28-core/165W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 871618-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8170M (2.1GHz/26-core/165W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 874756-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8170 (2.1GHz/26-core/165W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 871617-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8168 (2.7GHz/24-core/205W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 869089-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8164 (2.0GHz/26-core/145W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 869088-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8160M (2.1GHz/24-core/145W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 874758-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8160 (2.1GHz/24-core/150W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 869086-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8158M (2.0GHz/26-core/150W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 869090-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8158 (2.0GHz/12-core/150W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 869090-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8156 (3.6GHz/4-core/105W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826890-B21

- HPE DL380 Gen10 Intel® Xeon-Platinum 8153 (2.0GHz/16-core/125W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826888-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6154 (3.0GHz/18-core/200W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826888-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6152 (2.1GHz/22-core/140W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826886-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6150 (2.7GHz/18-core/165W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826884-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6148 (2.4GHz/20-core/150W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826882-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6142M (2.6GHz/16-core/150W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826880-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6142 (2.6GHz/16-core/150W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826880-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6140M (2.3GHz/18-core/135W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826878-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6140 (2.3GHz/18-core/150W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826878-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6138 (3.2GHz/20-core/125W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826876-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6136 (3.0GHz/12-core/150W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826874-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6134M (3.2GHz/8-core/130W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 873645-B21

- HPE DL380 Gen10 Intel® Xeon-Gold 6134 (3.2GHz/8-core/130W) Processor Kit
  - **NOTE:** Ships with Performance Heatsink.
  - 826872-B21
Core Options

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6132 (2.6GHz/14-core/140W) Processor Kit 826870-B21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6130 (2.1GHz/16-core/120W) Processor Kit 826866-B21
HPE DL380 Gen10 Intel® Xeon-Gold 6128 (3.4GHz/6-core/115W) Processor Kit 826864-B21

**NOTE:** Ships with Performance Heatsink.
HPE DL380 Gen10 Intel® Xeon-Gold 6126 (2.6GHz/12-core/120W) Processor Kit 826862-B21
HPE DL380 Gen10 Intel® Xeon-Gold 5122 (3.6GHz/4-core/105W) Processor Kit 826858-B21

**NOTE:** Up to two processors supported. Performance Models include two processors.

**NOTE:** HT indicates that the processor model supports Intel® Hyper-Threading Technology.
**NOTE:** Turbo2: Intel® Turbo Boost Technology 2.0 provides more computing power when you need it with performance that adapts to spikes in your workload and delivers more performance upside than then previous generation turbo technology.

**NOTE:** DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.
**NOTE:** The xxxxxxx-L21 is the first processor shipped, the xxxxxxx-B21 is the 2nd processor and ships with 2 additional fans for factory of field installation.

**NOTE:** Maximum memory per socket depends on the processor selected.
**NOTE:** Processors above 130W use a High Performance Heatsink, along with the 8156, 6128 and 5122.

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](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 Memory Kit 815097-B21
- HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Memory Kit 815098-B21
- HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Memory Kit 815100-B21
- HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Memory Kit 815101-B21
- HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Memory Kit 835955-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**

- HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive 726536-B21

**NOTE:** The Universal Media Bay (826708-B21) is required for this option on a SFF model. No support in 12 LFF or 24 SFF models.

- HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive 726537-B21

**NOTE:** The Universal Media Bay (826708-B21) is required for this option on a SFF model. No support in 12 LFF or 24 SFF models.
## Core Options

HP Mobile USB Non Leaded System DVD RW Drive  
**NOTE:** This is only supported on USB 3.0 ports.

### HPE Drives

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

- HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD  
  870753-B21  
- HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD  
  872475-B21  
- HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD  
  870757-B21  
- HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD  
  872477-B21  
- HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD  
  870759-B21  
- HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD  
  872479-B21  
- HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD  
  872481-B21

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

- HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty HDD  
  832514-B21  
- HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD  
  765464-B21  
- HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD  
  765466-B21

#### Midline - 12G SAS - LFF Drives

- HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD  
  846524-B21  
- HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD  
  818365-B21  
- HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD  
  872485-B21  
- HPE 3TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD  
  846528-B21  
- HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD  
  818367-B21  
- HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD  
  872487-B21  
- HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD  
  846514-B21  
- HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD  
  861754-B21  
- HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD  
  861590-B21  
- HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD  
  819201-B21  
- HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD  
  857644-B21

#### Midline - 6G SATA - SFF Drives

- HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD  
  655710-B21  
- HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD  
  765453-B21  
- HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD  
  765455-B21

#### Midline - 6G SATA - LFF Drives

- HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD  
  861691-B21  
- HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD  
  861676-B21  
- HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD  
  872489-B21  
- HPE 3TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD  
  861693-B21  
- HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD  
  861678-B21  
- HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD  
  861752-B21  
- HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD  
  872491-B21  
- HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD  
  846510-B21  
- HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD  
  819203-B21  
- HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD  
  861594-B21  
- HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD  
  857648-B21

### SSD Selection
Core Options

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

To further assist with configuration, HPE also offers an SSD Selector Tool located here: [http://ssd.hpe.com](http://ssd.hpe.com).

**Write Intensive - 6G SATA - SFF - Solid State Drives**

- HPE 400GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 872355-B21
- HPE 400GB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 872357-B21
- HPE 800GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 872359-B21
- HPE 800GB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 872361-B21
- HPE 1.6TB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 872363-B21
- HPE 1.6TB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 872365-B21

**Write Intensive - PCIe/NVMe - SFF - Solid State Drives**

- HPE 400GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD 736936-B21
- HPE 800GB NVMe x4 Lanes Write Intensive SFF (2.5in) SC 3yr Wty SSD 736939-B21
- HPE 1.6TB NVMe x4 Lanes Write Intensive SFF (2.5in) SC 3yr Wty SSD 764892-B21
- HPE 2TB NVMe x4 Lanes Write Intensive SFF(2.5in) SC 3yr Wty SSD 764894-B21

**NOTE:** An NVME (826689-B21 or 873781-B21) or Premium (826690-B21) drive cage are required to support these drives in conjunction with a NVMe riser kit.

**NOTE:** HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs.

**NOTE:** With NVMe support only 1x Double Wide Graphics card is supported.

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

- HPE 150GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 869374-B21
- HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 869376-B21
- HPE 240GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 868814-B21
- HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 869378-B21
- HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 868818-B21
- HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 869384-B21
- HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 868822-B21
- HPE 1.6TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 869386-B21
- HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 868826-B21
- HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 868830-B21

**Read Intensive - 6G SATA - LFF - Solid State Drives**

- HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 869380-B21
- HPE 1.6TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 869388-B21

**Read Intensive - 6G SATA - M.2 - Solid State Drives**

- HPE 340GB SATA 6G Read Intensive M.2 2280 3yr Wty SSD 777264-B21
- HPE 340GB SATA 6G Read Intensive 3yr Wty M.2 Kit 835563-B21
- HPE 340GB SATA 6G Read Intensive 3yr Wty Dual M.2 Kit 835565-B21

**NOTE:** M.2 drives go in the Primary Riser and use S100i SATA controller only.

**NOTE:** M.2 supports Software RAID only.

**Read Intensive - 6G SATA - M.2 - uFF - Solid State Drives**

- HPE 340GB SATA 6G Read Intensive UFF 3yr Wty Dual M.2 Kit 815605-B21
- HPE 340GB SATA 6G Read Intensive UFF 3yr Wty M.2 Kit 815606-B21

**NOTE:** M.2 drives go in the Primary Riser and use S100i SATA controller only.

**NOTE:** M.2 supports Software RAID only.

**Read Intensive - NVMe - SFF - Solid State Drives**

- HPE 400GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty SSD 764904-B21
- HPE 1.2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty SSD 764906-B21

**Mixed Use - 6G SATA - SFF - Solid State Drives**
Core Options

- HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 872344-B21
- HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 872346-B21
- HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 872350-B21
- HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 872348-B21
- HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD 872352-B21

Mixed Use - NVMe - SFF - Solid State Drives

- HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD 765034-B21
- HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD 765036-B21
- HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD 765038-B21
- HPE 2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD 765044-B21

NOTE: An NVME (826689-B21 or 873781-B21) or Premium (826690-B21) drive cage is required to support these drives in conjunction with a NVMe riser kit.

NOTE: HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs.

NOTE: With NVMe support only 1x Double Wide Graphics card is supported.

NOTE: Not supported by HPE Smart Array controllers.

NOTE: NVMe drives require the addition of the High Performance Fan kit (867810-B21).

Hard Drive Blank Kits

- HPE Large Form Factor Hard Drive Blank Kit 666986-B21
- HPE Small Form Factor Hard Drive Blank Kit 666987-B21

Hard Drive Kits

- HPE DL38X Gen10 3LFF Rear SAS/SATA Drive Kit 826685-B21
  NOTE: This is supported in the LFF model only.
  NOTE: 3 LFF rear drives will consume the 2nd riser expansion slot.
- HPE DL38X Gen10 4LFF Midplane SAS/SATA HDD Kit 826686-B21
  NOTE: Supported with both the 8 and 12 LFF model.
  NOTE: Ships with low profile HeatSink for installation. Supporting processors below 125W.
  NOTE: No support for the 8156, 6128 or the 5122 Processors.
  NOTE: With this mid-tray only single-wide (8.5-inch cards with connections or less) cards are supported.
  NOTE: This drive does support hot-swap drives.
  NOTE: This requires High Performance Fans (867810-B21).
- HPE DL38X Gen10 2SFF Premium HDD Front NVMe/SAS/SATA Kit 826687-B21
  NOTE: Supports 2SFF SAS/SATA/NVMe in Universal Media bay (826708-B21).
  NOTE: NVMe drives require the addition of the High Performance Fan kit (867810-B21).
  NOTE: NVMe drives require the addition of an NVMe capable riser.
  NOTE: Drive cage can be used in the rear of the chassis, but will not support NVMe drives rear.
  NOTE: For support of the 2 NVMe drives this will require the addition of the HPE DL38X Gen10 x8/x8/x8 1-port 2 NVMe Slimline Riser (867806-B21); or the HPE DL38X Gen10 2-port 4 NVMe Slim SAS Riser.
- HPE DL38X NVMe 8 Solid State Drive Express Bay Enablement Kit 826689-B21
  NOTE: This option provides support for up to 8NVMe drives, and can be populated in all Boxes in the 8 SFF model.
  NOTE: A maximum of 20 NVMe drives only are supported, this will mean partial population (4 drives) when the 3rd cage is populated in Box 1.
  NOTE: This will require the HPE DL38X Gen10 4-port 8 NVMe Slimline Riser (867807-B21).
  NOTE: NVMe drives require the addition of the High Performance Fan kit (867810-B21).
- HPE DL38X Gen10 Premium 6 SFF SAS/SATA + 2 NVMe or 8 SFF SAS/SATA Bay Kit 826690-B21
  NOTE: This option provides supports up to 8 SAS/SATA SFF drives or a combination of 6 SAT/SATA and 2 NVMe drives in the same cage, and can be populated in all Boxes in the SFF model.
Core Options

(867808-B21).

**NOTE:** NVMe drives require the addition of the High Performance Fan kit (867810-B21).

- HPE DL38X Gen10 SFF Box1/2 Cage/Backplane Kit
  - 826691-B21

**NOTE:** Supports 8 SAS/SAFA SFF drives in Box 1 or 2 to a max of 24 SFF SAS/SATA front.

- HPE DL380 Gen10 LFF 1U SAS/SATA Kit
  - 867805-B21

**NOTE:** For 2 SFF SAS/SATA in UMB on 8 LFF model only.

- HPE DL38X Gen10 8LFF Front 2NVMe HDD Bay Kit
  - 873781-B21

**NOTE:** NVMe drives require the addition of the High Performance Fan kit (867810-B21).

**Media Bay Kits**

- HPE DL38X Gen10 Universal Media Bay Kit
  - 826708-B21

**NOTE:** The Universal Media Bay offers front Display port 2x USB 2.0, plus ability to add optional Optical drive, and 2 SFF, either SAS/SATA or NVMe.

**NOTE:** This is only compatible with the SFF model and can be populated in Box 1 only.

**HPE Networking**

1 Gigabit Ethernet adapters

- HPE Ethernet 1Gb 4-port 331T Adapter
  - 647594-B21

- HPE Ethernet 1Gb 2-port 332T Adapter
  - 615732-B21

- HPE Ethernet 1Gb 2-port 361T Adapter
  - 652497-B21

- HPE Ethernet 1Gb 4-port 366T Adapter
  - 811546-B21

- HPE Ethernet 10Gb 2-port 530T Adapter
  - 656596-B21

- HPE Ethernet 10Gb 2-port 535T Adapter
  - 813661-B21

**25 Gigabit Ethernet adapters**

- HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter
  - 817762-B21

- HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
  - 817718-B21

- HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter
  - 817753-B21

**NOTE:** The DL380 Gen10 ships with 4x 1 Gb Embedded.

**NOTE:** A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

**NOTE:** Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information:


FlexibleLOM adapters

- HPE Ethernet 1Gb 4-port 366FLR Adapter
  - 665240-B21

- HPE Ethernet 10Gb 2-port 530SFP Adapter
  - 665250-B21

- HPE FlexFabric 10Gb 2-port 533FLR-T Adapter
  - 700759-B21

- HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
  - 700751-B21

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
  - 817721-B21

- HPE FlexFabric 10Gb 4-port 536FLR-T Adapter
  - 764302-B21

- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
  - 727054-B21

- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
  - 727055-B21

- HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
  - 817709-B21

- HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter
  - 817749-B21

**NOTE:** The DL380 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.

**NOTE:** Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic

### HPE InfiniBand

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<th>Option Description</th>
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<td>764284-B21</td>
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<tr>
<td>HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter</td>
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<td>HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter</td>
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<td>HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter</td>
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### HPE I/O Expansion Options

**NOTE:** The Primary Riser shipping default in the chassis is a x8 FH, HL, x16 FH, FL and x8 FH, HL with m.2 support.

**NOTE:** For a Secondary/Tertiary riser the second processor is required.

- HPE DL38X Gen10 x16/x16 Riser Kit
  - Slot 1 or 2 in Primary or Secondary location.
  - Supports Full Height and Full length cards.
  - Bus width x16, x16, Connector Width x16, x16.
  - SKU: 826694-B21

- HPE DL Gen10 x8/x16/x8 Riser Kit
  - Slot 1 or 2 in Primary or Secondary location.
  - No M.2 support on this riser.
  - Supports Full Height, Half-length cards; Full Height, Full-length cards and Full Height, Half-length cards.
  - Bus width x8, x16, x8, Connector Width x8, x16, x8.
  - SKU: 870548-B21

- HPE DL Gen10 x16/x16 GPU Riser Kit
  - Primary or Secondary Riser, Connector in slot 2 & 3 for GPU support.
  - Supports Full Height and Full length cards.
  - Bus width x16, x16, Connector Width x16, x16.
  - SKU: 826704-B21

- HPE DL38X Gen10 25FF HDD SAS/SATA Riser Kit
  - Premium bay supporting SFF SAS/SATA and NVMe.
  - Available in Primary or Secondary Riser location.
  - Will leave 1 x16 Connector available in bottom slot.
  - SKU: 826688-B21

- HPE DL38X Gen10 2-port 4 NVMe Slim SAS Riser
  - Supports NVMe drives in Primary or Secondary location.
  - Supports Full Height and half-length cards.
  - Bus width x8, x8, x8 Connector Width x8, x8, x8.
  - SKU: 867806-B21

- HPE DL38X Gen10 4-port 8 NVMe Slim SAS Secondary Riser
  - Supports up to 4 NVMe drives in Tertiary location.
  - Bus width x8, x8 Connector Width x8, x8.
  - SKU: 867808-B21

- HPE DL38X Gen10 2 x8 PCIe Tertiary Riser Kit
  - Supports 2x 8 slots in the Tertiary location.
  - SKU: 875780-B21

- HPE DL38X Gen10 x16 Tertiary Riser Kit
  - Supports 1x 16 slot in the Tertiary location.
  - Supports Full Height and full-length card.
  - Bus width x16 Connector Width x16.
  - SKU: 826700-B21

### HPE Power Supplies

- HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
  - SKU: 865408-B21

**NOTE:** Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard
## Core Options

- **C-14 power inlet connector.**
  - 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.
  - HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit 865428-B21
  - **NOTE:** Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.
  - 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.
  - HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit 865434-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).

### GPGPU Information

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<tr>
<th>Part number</th>
<th>Card</th>
<th>Qty</th>
<th>Processor support</th>
<th>PCIe speed</th>
<th>DL380 configuration</th>
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<td>NVIDIA Tesla M10 4 GB Module</td>
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<td>All Gen2/3</td>
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<td>35C</td>
<td>24 SFF +2 SFF rear</td>
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<td>NVIDIA Tesla P4 8 GB Module</td>
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<td></td>
<td>35C</td>
<td>16 SFF + UMB with 2 SFF</td>
</tr>
<tr>
<td>Q0E21A</td>
<td>NVIDIA Tesla P100 PCIe 16 GB Module</td>
<td>2</td>
<td>All Gen3</td>
<td>30C</td>
<td>16 SFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25C</td>
<td>16 SFF + 8 NVMe</td>
</tr>
<tr>
<td>Q0V77A</td>
<td>NVIDIA Quadro P2000 GPU Module</td>
<td>5</td>
<td>All Gen3</td>
<td>35C</td>
<td>24 SFF</td>
</tr>
<tr>
<td>Q0V78A</td>
<td>NVIDIA Quadro P4000 GPU Module</td>
<td>5</td>
<td>All Gen3</td>
<td>35C</td>
<td>24 SFF+2 SFF rear</td>
</tr>
<tr>
<td>Q0V76A</td>
<td>NVIDIA Quadro P6000 PCIe GPU Adapter</td>
<td>2</td>
<td>All Gen3</td>
<td>35C</td>
<td>12 LFF</td>
</tr>
</tbody>
</table>

**NOTE:** 1x 1400W PS recommended, but this card will work with 1x800W PS (per GPU). However check the power usage via the HPE Power Advisor Tool located at [http://www.hpe.com/info/hppoweradvisor](http://www.hpe.com/info/hppoweradvisor).

**NOTE:** Performance fans (867810-B21) are required for all GPU installations (Note theseship as standard with the 24SFF and 12LFF models).

**NOTE:** Mixing of GPUs is not supported.

**NOTE:** With the Standard Primary Riser the top x8 PCIe Slot connector will not be accessible with the installation of a doublewide GPU.

**NOTE:** The P100, M10, P6000 and P400 cards are not supported with Processors over 160W.

**NOTE:** Only 2 SFF rear drives supported over Power Supply as would require Riser 1 and Riser 2 for GPU support.

**NOTE:** 4 LFF mid-tray will not support DW cards.
Core Options

NOTE: 1 Invalid configuration or no HW support may apply to multiple GPUs installed. HW limitation may not be a thermal limitation.

HPE Computation and Graphics Accelerators

HPE NVIDIA Quadro P2000 GPU Module  Q0V77A
HPE NVIDIA Quadro P4000 GPU Module  Q0V78A

**NOTE:** This required the HPE GPU 6px6p Y-Power Cable Kit 874212-B21.

HPE NVIDIA Quadro P6000 GPU Module  Q0V76A

**NOTE:** This required the HPE DL380 Gen10 8P Cable Kit 871828-B21.

NVIDIA Tesla M10 Quad GPU Module  Q0J62A

**NOTE:** This required the HPE DL380 Gen10 8P Cable Kit 871828-B21.

**NOTE:** This required the HPE DL380 Gen10 8P Cable Kit 871828-B21.

**NOTE:** Only 2x M10 can be supported (on any x16 slot 2, 5 or 7) due to system running out of PCIe lanes.

HPE NVIDIA Tesla P4 8GB Module  Q0V79A
HPE NVIDIA Tesla P40 24GB Module  Q0V80A

**NOTE:** This required the HPE DL380 Gen10 8P Keyed Cable Kit 871829-B21.

HPE NVIDIA Tesla P100 PCIE 16GB Module  Q0E21A

**NOTE:** This required the HPE DL380 Gen10 8P Keyed Cable Kit 871829-B21.

Graphics Cable Kits

HPE GPU 6px6p Y-Power Cable Kit  874212-B21
HPE DL380 Gen10 8-pin Cable Kit  871828-B21
HPE DL380 Gen10 8-pin Keyed Cable Kit  871829-B21
HPE DL380 Gen10 8x 6-pin Cable Kit  871830-B21

HPE Cooling Options

HPE DL38X Gen10 High Performance Temperature Fan Kit  867810-B21

**NOTE:** This kit is required for specific Ambient temperature environments, coming in 2H2017.

**NOTE:** High Performance fan kit consists of 6 fans, these will need to replace all the standard fans in the unit, and fill all 6 fan cages.

**NOTE:** The 12 LFF and 24 SFF models (including field upgrades to 24 SFF) will already include 6 High Performance fan kits.

**NOTE:** The High Performance fan kit is needed to support certain Passive GPGPU (Graphics cards) configurations; or ASHRAE operating environments.

**NOTE:** For elevated ambient temperature support please see: [http://www.hpe.com/servers/ashrae](http://www.hpe.com/servers/ashrae).
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.

HPE Insight Software

HPE Insight Control

HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU  C6N27A
HPE Insight Control including 1yr 24x7 TSU E-LTU  C6N28ABE
HPE Insight Management Media Kit  C6N31A

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HPE Software Technical Support and Update Service.

NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded at: https://www.hpe.com/info/insightmanagement

NOTE: For additional license options please see the HPE Insight Control QuickSpecs

NOTE: For additional license options please see the QuickSpecs at: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123391

Embedded Management

HPE iLO Advanced

HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU  E6U59ABE
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU  512485-B21
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates Flexible Quantity LTU  512486-B21
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates Tracking LTU  512487-B21
HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU  E6U64ABE
HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU  BD505A
HPE iLO Advanced including 3yr 24x7 Tech Support and Updates Flexible Quantity LTU  BD506A
HPE iLO Advanced including 3yr 24x7 Tech Support and Updates Tracking LTU  BD507A

HPE iLO Advanced Security

HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features  Q7E31A
HPE iLO Advanced Premium Security Flex Qty License with 1yr Support on Licensed Features  Q7E32A
HPE iLO Advanced Premium Security Edition Electronic License with 1yr Support on Licensed Features  Q7E32AAE
HPE iLO Advanced Premium Security AKA Tracking License with 1yr Support on Licensed Features  Q7E35A
HPE iLO Adv Security Upg Elc Lic 3yr Sup  Q7E12AAE
HPE iLO Advanced Premium Security Edition License with 3yr Support on Licensed Features  Q7E33A
HPE iLO Advanced Premium Security Flex Qty License with 3yr Support on Licensed Features  Q7E34A
HPE iLO Advanced Premium Security Edition Electronic License with 3yr Support on Licensed Features  Q7E34AAE
HPE iLO Advanced Premium Security AKA Tracking License with 1yr Support on Licensed Features  Q7E36A

HPE Converged Infrastructure Management Software

HPE OneView Physical Media Kit LTU  ESY37A
HPE OneView including 3yr 24x7 Support Physical 1-server LTU  ESY34A
HPE OneView including 3yr 24x7 Support Track 1-server LTU  ESY36A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU  ESY35AAE
**Additional Options**

- **HPE OneView Upgrade from Insight Management 3yr 24x7 Support 1-server LTU**  
  F6Q91A
- **HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU**  
  P8B24A
- **HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU**  
  P8B25A
- **HPE OneView w/o iLO Advance including 3yr 24x7 Support Track 1-server LTU**  
  E5Y40A
- **HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU**  
  P8B26AAE

**NOTE:** Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.  
**NOTE:** Server provisioning (via ‘HPE Insight Control server provisioning’) is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).  
**NOTE:** Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded.

**HPE PCIe Workload Accelerator Options**

- **HPE 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator**  
  803195-B21
- **HPE 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator**  
  803197-B21
- **HPE 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator**  
  803200-B21
- **HPE 1.6TB NVMe Mixed Use HH/HL PCIe Workload Accelerator**  
  803202-B21
- **HPE 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator**  
  803204-B21

**HPE Security**

- **HPE Gen10 2U Bezel Kit**  
  867809-B21
- **HPE Bezel Lock Kit**  
  875519-B21
- **HPE Gen10 Chassis Intrusion Detection Kit**  
  867824-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 Trusted Platform Module 2.0 Kit**  
  872108-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 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](#).

![Controller Type (form factor)]

**NOTE:** All performance RAID controllers are supported by the HPE Smart Storage Battery (875241-B21), which supports multiple devices and is sold separately.

- **HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular**  
  804338-B21
Additional Options

Controller

**NOTE:** Does not occupy a PCIe expansion slot and includes SmartCache license.

NOTE: The P816i-a cable ships in the 12LFF chassis only (868705-B21).

<table>
<thead>
<tr>
<th>Controller</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller</td>
<td></td>
<td>804331-B21</td>
</tr>
<tr>
<td>HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller</td>
<td></td>
<td>830824-B21</td>
</tr>
<tr>
<td>HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller</td>
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</table>

Essential RAID Controllers

<table>
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<tr>
<th>Controller</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller</td>
<td></td>
<td>804326-B21</td>
</tr>
<tr>
<td>HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller</td>
<td></td>
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<tr>
<td>HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller</td>
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HPE Cable Options

<table>
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<th>Cable</th>
<th>Description</th>
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<tbody>
<tr>
<td>HPE DL380 SFF Smart Array HBA H200/P400 Series SAS Cable Kit</td>
<td>786092-B21</td>
</tr>
<tr>
<td>HPE DL380 Gen10 Mini SAS 3POS Cable Kit</td>
<td>826709-B21</td>
</tr>
<tr>
<td>HPE DL38X Gen10 2 Drive NVMe Slim SAS Cable Kit</td>
<td>871827-B21</td>
</tr>
</tbody>
</table>

Optional Software

<table>
<thead>
<tr>
<th>Software</th>
<th>Description</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>HPE Smart Array Secure Encryption/Data at Rest Encryption/per Server Entitlement E-LTU</td>
<td></td>
<td>Q2F26AAE</td>
</tr>
<tr>
<td>HPE SmartCache No Media 24x7 Technical Support 1-server LTU</td>
<td></td>
<td>D7S26A</td>
</tr>
<tr>
<td>HPE SmartCache No Media 24x7 Technical Support Flexible LTU</td>
<td></td>
<td>D7S27A</td>
</tr>
<tr>
<td>HPE SmartCache No Media 24x7 Technical Support E-LTU</td>
<td></td>
<td>D7S27AAE</td>
</tr>
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</table>

Optional Upgrades

<table>
<thead>
<tr>
<th>Upgrade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 96W Smart Storage Battery (up to 20 Devices/145mm Cable) Kit</td>
<td>875241-B21</td>
</tr>
</tbody>
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HPE Storage Options

Emulex Fibre Channel HBAs

<table>
<thead>
<tr>
<th>HBA</th>
<th>Description</th>
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<tbody>
<tr>
<td>HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter</td>
<td>QOL13A</td>
</tr>
<tr>
<td>HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter</td>
<td>QOL14A</td>
</tr>
<tr>
<td>HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter</td>
<td>QOL11A</td>
</tr>
<tr>
<td>HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter</td>
<td>QOL12A</td>
</tr>
</tbody>
</table>

QLogic Fibre Channel HBAs

<table>
<thead>
<tr>
<th>HBA</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter</td>
<td>P9D93A</td>
</tr>
<tr>
<td>HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter</td>
<td>P9D94A</td>
</tr>
<tr>
<td>HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter</td>
<td>P9M75A</td>
</tr>
<tr>
<td>HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter</td>
<td>P9M76A</td>
</tr>
</tbody>
</table>
Additional Options

Converged Network Adapters

- HPE StoreFabric CN1100R Dual Port Converged Network Adapter QW990A
- HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter N3US2A
- HPE StoreFabric CN1200E 10Gb Converged Network Adapter E7YO6A
- HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter N3US1A


HPE Racks

**NOTE:** Please see the [HPE Advanced Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

**NOTE:** Please see the [HPE Enterprise Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

**NOTE:** Please see the [HPE Standard Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

HPE Power Distribution Units (PDUs)

**NOTE:** Please see the [HPE Basic Power Distribution Units (PDU) QuickSpecs](#) for information on these products and their specifications.

**NOTE:** Please see the [HPE Metered Power Distribution Units (PDU) QuickSpecs](#) for information on these products and their specifications.

**NOTE:** Please see the [HPE Intelligent Power Distribution Unit (PDU) QuickSpecs](#) for information on these products and their specifications.

**NOTE:** 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)

**NOTE:** To learn more, please visit the [HPE Uninterruptible Power Systems (UPS) web page](#).

**NOTE:** Please see the [HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs](#) for information on these products and their specifications.

**NOTE:** 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).

**CAUTION:** 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.

- HP 2U Small Form Factor Easy Install Rail Kit 733660-B21
  **NOTE:** Does not include CMA (733664-B21).
- HP 2U Large Form Factor Easy Install Rail Kit 733662-B21
  **NOTE:** Does not include CMA (733664-B21).
- HP 2U Cable Management Arm for Easy Install Rail Kit 733664-B21
- HPE 2U Small Form Factor Ball Bearing Rail Kit 720863-B21
Additional Options

**NOTE:** Does not include CMA (720865-B21).

- HPE 2U Large Form Factor Ball Bearing Rail Kit
- HPE 2U Cable Management Arm for Ball Bearing Rail Kit

**HPE Other Options**

- HPE Rack LED Light Kit
- HP Kit LCD 1.83m Latch Display Port Cable

**HPE USB and SD Options**

**HPE Enterprise Mainstream Flash Media Kits for Memory Cards**

- HPE 32GB microSD Mainstream Flash Media Kit
- HPE 8GB microSD Enterprise Mainstream Flash Media Kit
- HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit
- HP Dual 8GB microSD Enterprise Midline USB Kit

NOTE: Does not include CMA (720865-B21).
Memory Population guidelines

HPE Gen10 DL360 / DL380 / DL560* Servers
2 Slots per Channel

Front of Server

<table>
<thead>
<tr>
<th>HPE ProLiant Gen10 12 slot per CPU</th>
<th>DIMM Population Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 DIMM</td>
<td>8</td>
</tr>
<tr>
<td>2 DIMMs</td>
<td>10</td>
</tr>
<tr>
<td>3 DIMMs</td>
<td>12</td>
</tr>
<tr>
<td>4 DIMMs</td>
<td>10</td>
</tr>
<tr>
<td>5 DIMMs</td>
<td>12</td>
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<td>6 DIMMs</td>
<td>8</td>
</tr>
<tr>
<td>7 DIMMs</td>
<td>10</td>
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<td>8 DIMMs</td>
<td>12</td>
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<tr>
<td>9 DIMMs</td>
<td>10</td>
</tr>
<tr>
<td>10 DIMMs</td>
<td>12</td>
</tr>
<tr>
<td>11 DIMMs</td>
<td>10</td>
</tr>
<tr>
<td>12 DIMMs</td>
<td>12</td>
</tr>
</tbody>
</table>

* Unbalanced, not recommended

General Memory Population Rules and Guidelines:

- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two-processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- When two processors are installed, balance the DIMMs across the two processors.
- White DIMM slots denote the first slot to be populated in a channel.
- Mixing of DIMM types (UDIMM, RDIMM, and LRDIMM) is not supported.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, the number and model of installed processors qualified on the platform.

* DL560 is a 4 socket server (uses P3, P4)
Memory

For details on the HPE Server Memory Options Population Rules, visit: http://www.hpe.com/docs/memory-population-rules

To realize the performance memory capabilities listed in this document, HPE DDR4 SmartMemory is required. For additional information, please see the HPE DDR4 SmartMemory QuickSpecs.

<table>
<thead>
<tr>
<th>DIMM Type</th>
<th>Register DIMM (RDIMM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE SKU P/N</td>
<td>815097-B21</td>
</tr>
<tr>
<td>SKU Description</td>
<td>HPE 8GB 1Rx8 PC4-2666V-R Kit</td>
</tr>
<tr>
<td>DIMM Rank -&gt;</td>
<td>Single Rank (1R)</td>
</tr>
<tr>
<td>DIMM Capacity -&gt;</td>
<td>8GB</td>
</tr>
<tr>
<td>Voltage</td>
<td>1.2V</td>
</tr>
<tr>
<td>DRAM depth [bit]</td>
<td>1G</td>
</tr>
<tr>
<td>DRAM Width [bit]</td>
<td>x8</td>
</tr>
<tr>
<td>DRAM Density</td>
<td>8Gb</td>
</tr>
<tr>
<td>DIMM Native Speed (MT/s)</td>
<td>2666 MT/s</td>
</tr>
</tbody>
</table>

Intel Xeon®Platinum 81xx Processors Officially Supported Memory Speed (MT/s)

<table>
<thead>
<tr>
<th>DIMM Type</th>
<th>Load Reduced (LRDIMM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE SKU P/N</td>
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</tr>
<tr>
<td>SKU Description</td>
<td>HPE 64GB 4Rx4 PC4-2666V-L Kit</td>
</tr>
<tr>
<td>DIMM Rank -&gt;</td>
<td>Quad Rank (4R)</td>
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<tr>
<td>DIMM Capacity -&gt;</td>
<td>64GB</td>
</tr>
<tr>
<td>Voltage</td>
<td>1.2V</td>
</tr>
<tr>
<td>DRAM depth [bit]</td>
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</tr>
<tr>
<td>DRAM Width [bit]</td>
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<tr>
<td>DRAM Density</td>
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### Memory

<table>
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<tr>
<th>CAS Latency</th>
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<th>22-19-19</th>
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<tbody>
<tr>
<td>DIMM Native Speed (MT/s)</td>
<td>2666</td>
<td>2666</td>
</tr>
</tbody>
</table>

**Intel Xeon® Platinum 81xx Processors Officially Supported Memory Speed (MT/s)**

<table>
<thead>
<tr>
<th>DIMM Per Channel</th>
<th>2666 MT/s</th>
<th>2666 MT/s</th>
</tr>
</thead>
</table>

**Intel Xeon® Gold/Silver 41xx/51xx/61xx Processors Officially Supported Memory Speed (MT/s)**

<table>
<thead>
<tr>
<th>DIMM Per Channel</th>
<th>2400 MT/s</th>
<th>2400 MT/s</th>
</tr>
</thead>
</table>

**Intel Xeon® Bronze 31xx Processors Officially Supported Memory Speed (MT/s)**

<table>
<thead>
<tr>
<th>DIMM Per Channel</th>
<th>2133 MT/s</th>
<th>2133 MT/s</th>
</tr>
</thead>
</table>

**HPE Server Memory Speed (MT/s): Intel Xeon® Platinum 81xx Processors * **

<table>
<thead>
<tr>
<th>DIMM Per Channel</th>
<th>2666 MT/s</th>
<th>2666 MT/s</th>
</tr>
</thead>
</table>

**HPE Server Memory Speed (MT/s): Intel Xeon® Gold/Silver 41xx/51xx/61xx Processors * **

<table>
<thead>
<tr>
<th>DIMM Per Channel</th>
<th>2400</th>
<th>2400</th>
</tr>
</thead>
</table>

**HPE Server Memory Speed (MT/s): Intel Xeon® Bronze 31xx Processors * **

<table>
<thead>
<tr>
<th>DIMM Per Channel</th>
<th>2133 MT/s</th>
<th>2133 MT/s</th>
</tr>
</thead>
</table>

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

For details on the HPE Server Memory speed, visit: [https://www.hpe.com/docs/memory-speed-table](https://www.hpe.com/docs/memory-speed-table)

### Standard and Maximum Memory Capacity (Pre-configured Models)

<table>
<thead>
<tr>
<th>Pre Configured Models</th>
<th>Standard Memory</th>
<th>Maximum Memory Plus Optional Memory</th>
<th>Standard Memory Replaced with Optional Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>3106</td>
<td>16 GB (1x16 GB RDIMM DR)</td>
<td>384 GB (24x 16 GB)</td>
<td>3072 GB (24x 128 GB)</td>
</tr>
<tr>
<td>4110</td>
<td>32 GB (2x16 GB RDIMM DR)</td>
<td>384 GB (24x 16 GB)</td>
<td>3072 GB (24x 128 GB)</td>
</tr>
<tr>
<td>4114</td>
<td>32 GB (2x16 GB RDIMM DR)</td>
<td>384 GB (24x 16 GB)</td>
<td>3072 GB (24x 128 GB)</td>
</tr>
<tr>
<td>5118</td>
<td>64 GB (2x32 GB RDIMM DR)</td>
<td>768 GB (24x 32 GB)</td>
<td>3072 GB (24x 128 GB)</td>
</tr>
<tr>
<td>6130</td>
<td>64 GB (2x32 GB RDIMM DR)</td>
<td>768 GB (24x 32 GB)</td>
<td>3072 GB (24x 128 GB)</td>
</tr>
</tbody>
</table>

**NOTE:** 128 GB coming 2H 2017.

**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](https://www.hpe.com/docs/mem-ority-speed-table)
Storage

8LFF chassis with Universal media bay and optional 2SFF and optical drive shown

12 LFF + 3 rear LFF drives

12 LFF + 2 rear SFF drives

6 rear SFF drives
Storage

24 SFF + rear 2 SFF drives
## Technical Specifications

### System Unit

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>SFF Drives:</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.73 x 44.55 x 67.94 cm</td>
<td>8.73 x 44.55 x 73.02 cm</td>
</tr>
<tr>
<td>3.44 x 17.54 x 26.75 in</td>
<td>3.44 x 17.54 x 28.75 in</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SFF Drives:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum: 8 SFF chassis with 1x SFF HDD and 7 HDD blanks, 2x Drive Bay blanks, 1x processor including standard heatsink, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above</td>
</tr>
<tr>
<td>LFF Drives:</td>
</tr>
<tr>
<td>Maximum: 12 LFF hard drives (no rear drives), 2x processors, 2x power supplies, 1x Smart Array, 2x Risers installed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight (approximate)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>14.9 kg</td>
<td>32.75 lb</td>
</tr>
<tr>
<td>23.6 kg</td>
<td>51.5 lb</td>
</tr>
</tbody>
</table>

### Input Requirements (per power supply)

<table>
<thead>
<tr>
<th>Rated Line Voltage</th>
<th>100 to 120 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 to 240 VAC</td>
<td></td>
</tr>
</tbody>
</table>

### BTU Rating

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)

For 1400W Power Supply: 1400W (at 240 VAC), 1400W (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

Max Peak Power

For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (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

<table>
<thead>
<tr>
<th>Standard Operating Temperature</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended Ambient Operating Temperature</td>
<td>System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).</td>
</tr>
</tbody>
</table>

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

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

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

http://www.hpe.com/servers/ashrae
Technical Specifications

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

<table>
<thead>
<tr>
<th>Condition</th>
<th>Temperature</th>
<th>Relative Humidity</th>
<th>Altitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-operating</td>
<td>-30° to 60°C (-22° to 140°F)</td>
<td>8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.</td>
<td>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).</td>
</tr>
<tr>
<td>Operating</td>
<td>-30° to 60°C (-22° to 140°F)</td>
<td>8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.</td>
<td>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).</td>
</tr>
<tr>
<td>Non-operating</td>
<td>5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.</td>
<td>5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.</td>
<td>9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).</td>
</tr>
<tr>
<td>Operating</td>
<td>5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.</td>
<td>5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.</td>
<td>9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).</td>
</tr>
</tbody>
</table>

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**

- LWAd
  - Entry: 4.7 B
  - Base: 4.9 B
  - Perf: 4.8 B

- LpAm
  - Entry: 31 dBA
  - Base: 34 dBA
  - Perf: 33 dBA

**Operating**

- LWAd
  - Entry: 4.7 B
  - Base: 4.9 B
  - Perf: 4.8 B

- LpAm
  - Entry: 31 dBA
  - Base: 34 dBA
  - Perf: 33 dBA

**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.

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:

Technical Specifications

For information on the HPE Smart Array E208i-a SR Gen10 Controller please refer to their QuickSpecs.
For information on the HPE Smart Array E208i-p SR Gen10 Controller please refer to their QuickSpecs.
For information on the HPE Smart Array E208e-p SR Gen10 Controller please refer to their QuickSpecs.
For information on the HPE Smart Array P408i-a SR Gen10 Controller please refer to their QuickSpecs.
For information on the HPE Smart Array P408i-p SR Gen10 Controller please refer to their QuickSpecs.
For information on the HPE Smart Array P408e-p SR Gen10 Controller please refer to their QuickSpecs.
For information on the HPE Smart Array P816i-a SR Gen10 Controller please refer to their QuickSpecs.

Environment-friendly Products and Approach

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>
</table>

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

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