# HPE ProLiant DL380e Gen8 Server Series - Product Information Reference

Part Number:
Published:
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## Abstract

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## Revision history

| Part number | Publication date | Edition | Summary of changes |
|---|---|---|---|

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# Summary

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**Product description**
**Industry standard compliance**
**What's New**


# Product description



**The HPE ProLiant DL380e Gen8 sets the next-generation standards of 2U 2-socket rack servers for the industry. With enhanced configuration flexibility, unmatched performance, and leading energy efficient design the DL380e Gen8 offers the perfect solution for the dynamic compute and storage requirements of today's demanding data centers.**

# Industry standard compliance

| Feature | Description |
|---|---|
| Industry standard compliance | ACPI 2.0b Compliant |
| | PCIe 3.0 Compliant |
| | PXE Support |
| | WOL Support |
| | Microsoft Logo certifications |
| | USB 2.0 Compliant |

## What's New

- New HDD offering.

## Standard Models

**Subtopics**

**New RoHS compliant part numbers**
**Standard models**

## New RoHS compliant part numbers

To find the latest RoHS compliance information, please use the HPE PartSurfer (**Click here to visit HPE PartSurfer website**) and click on one of the linked model numbers. When locating RoHS information in PartSurfer, you can use the option part number for the components, the sales order number for a system that the component is used in, or the spare part number for a specific part. You can find the sales order numbers and option part numbers in the Product QuickSpecs.

## Standard models

| Description | Model Number |
|---|---|
| HP ProLiant DL380e Gen8 E5-2403 v2 4GB-R B120i hot plug SATA 4 LFF 460 W PS server | 747766-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2403 1P 4GB-R hot plug 4 LFF 460 W PS entry server | 648255-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2403 1P 4GB-R hot plug 8 SFF 460 W PS entry server | 648256-001<br>**Click here to obtain parts list for this model.** |
| HP ProLiant DL380e Gen8 E5-2407v2 8GB-R B320i hot plug SAS 8 LFF 460 W PS server | 747767-001<br>**Click here to obtain parts list for this model**. |

| Description | Model Number |
|---|---|
| HP ProLiant DL380e Gen8 E5-2407 1P 8GB-R hot plug 8 LFF 460 W PS base server | 668665-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2407v2 8GB-R B320i hot plug SAS 8 SFF 460 W PS server | 747768-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2407 1P 8GB-R hot plug 8 SFF 460 W PS base server | 668666-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2450v2 24GB-R hot plug SAS/SATA 8 SFF 750 W RPS server | 747771-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2450 2P 24GB-R P420 hot plug 8 SFF 750 W PS perf server | 668669-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2420v2 12GB-R hot plug SAS/SATA 12 LFF 750 W PS server | 747769-001[8]<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2420 1P 12GB-R P420 hot plug 12 LFF 750 W PS server | 668667-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2420 v2 12GB-R hot plug SAS/SATA 25 SFF 750 W PS server | 747770-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2420 1P 12GB-R P420 hot plug 25 SFF 750 W PS server | 668668-001<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2403 1P 2GB-U Hot Plug 8 LFF 460 W PS Server/S-Buy | 716676-S01<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2403 1P 8GB-R Hot Plug 8 SFF 2x460 W PS Server/S-Buy | 686202-S01<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2440 2P 32GB-R Hot Plug 25 SFF 2x750 W PS Server/S-Buy | 686204-S01<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2403v2 4GB-U B120i Hot Plug SATA 8 LFF 460 W PS Server/S-Buy | 748204-S01 |

| Description | Model Number |
|---|---|
| | **Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2403v2 8GB-R B320 i Hot Plug 8 SFF 460 W RPS Server/S-Buy | 748205-S01<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2440v2 2P 32GB-R P420/2GB Hot Plug 25 SFF 750 W RPS Server/S-Buy | 748207-S01<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 12 LFF Configure-to-order Server | 669257-B21<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 25 SFF Configure-to-order Server | 669256-B21<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 8 LFF Configure-to-order Server | 669255-B21<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 8 SFF Configure-to-order Server | 669253-B21<br>**Click here to obtain parts list for this model**. |
| HP ProLiant DL380e Gen8 E5-2420 1P 16GB-R Hot Plug 8 SFF 2x460 W PS Server/S-Buy | 686203-S01<br>**Click here to obtain parts list for this model**. |

**NOTE**

**1.** This model comes with 7 HDD blanks if no HDD is ordered.

**2.** Provides support for up to 6 SATA drives and data transmission speeds up to 3 Gb/s Greater than 4 drives requires an additional cable (See p/n 675856-B21).

**3.** This model comes with 11 HDD blanks if no HDD is ordered.

**4.** This model comes with 24 HDD blanks if no HDD is ordered.

**5.** Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6 Gb/s and includes SAS license key.

**6.** Provides support for up to 8 SATA drives, data transmission speeds up to 6 Gb/s and requires purchase of SAS license key for SAS mode.

**7.** This controller would be installed on the standard riser card or the optional secondary riser card.

# Product features

| Feature | Description |
|---|---|
| **Processor (One of the following depending on the model)** | • **Entry processors - E5-2400 v2 series Processors** [1]:<br>◦ Intel Xeon E5-2407 v2 (2.4 GHz/4-core/10 MB/6.4GT/s QPI/80 W, DDR3-1333)<br>◦ Intel Xeon E5-2403 v2 (1.8 GHz/4-core/10 MB/6.4GTs QPI/80 W, DDR3-1333)<br>• **Base processors - E5-2400 v2 series Processors** [2]:<br>◦ Intel Xeon E5-2430 v2 (2.5 GHz/6-core/15 MB/7.2GT/s QPI/80 W, DDR3-1600,HT, Turbo2- 3/3/4/4/5/5) Turbo<br>◦ Intel Xeon E5-2430L v2 (2.4 GHz/6-core/15MB/7.2GT/s QPI/60 W, DDR3-1600,HT, Turbo2- 3/3/4/4/5/5) Turbo<br>◦ Intel Xeon E5-2420 v2 (2.2 GHz/6-core/15 MB/7.2GT/s QPI/80 W, DDR3-1600,HT, Turbo2- 3/3/4/4/5/5) Turbo<br>◦ Intel Xeon E5-2440 v2 (1.9 GHz/8-core/20 MB/7.2GT/s QPI/95 W, DDR3-1600,HT, Turbo2- 3/3/4/4/5/5) Turbo<br>• **Performance processors - E5-2400v2 series Processors** [2]:<br>◦ Intel Xeon E5-2450 v2 (2.5 GHz/8-core/20 MB/8.0GT/s QPI/95 W, DDR3-1600,HT, Turbo2- 5/5/6/6/7/7/8/8) Turbo +<br>◦ Intel Xeon E5-2470 v2 (2.4 GHz/10-core/25MB/8.0GT/s QPI/95 W, DDR3-1600,HT, Turbo2- 5/5/6/6/7/7/8/8) Turbo+ |

| Feature | Description |
| --- | --- |
| | ◦ Intel Xeon E5-2450L v2 (1.7 GHz/10-core /25MB/8.0GT/s QPI/60 W, DDR3-1600, HT, Turbo2- 5/5/6/6/7/7/8/8) Turbo+<br>• **Entry Processors - E5-2400 series Processors** [3]:<br>◦ Intel Xeon E5-2407 (2.2 GHz/4 -core/10MB /6.4GT-s QPI/80 W, DDR3-1066)<br>◦ Intel Xeon E5-2403 (1.8 GHz/4 -core/10MB /6.4GT-s QPI/80 W, DDR3-1066)<br>• **Base Processors - E5-2400 series Processors** [1]:<br>◦ Intel Xeon E5-2440 (2.4 GHz/6 -core/15MB /7.2GT-s QPI/95 W, DDR3-1333, HT, Turbo2 - 3/3/4/4/5/5) Turbo<br>◦ Intel Xeon E5-2430 (2.2 GHz/6 -core/15MB /7.2GT-s QPI/95 W, DDR3-1333, HT,Turbo2- 3/3/4/4/5/5) Turbo<br>◦ Intel Xeon E5-2430L (2.0 GHz/6 -core/15M B/7.2GT-s QPI/60 W, DDR3-1333,HT, Turbo 2- 3/3/4/4/5/5) Turbo<br>◦ Intel Xeon E5-2420 (1.9 GHz/6 -core/15MB /7.2GT/s QPI/95 W, DDR3-1333, HT, Turbo2 - 3/3/4/4/5/5) Turbo<br>• **Performance Processors - E5-2400 series Proc essors** [2]:<br>◦ Intel Xeon E5-2470 (2.3 GHz/8-core/20MB/ 8.0GT-s QPI/95 W, DDR3-1600,HT, Turbo2- 5/5/6/6/7/7/8/8) Turbo+<br>◦ Intel Xeon E5-2450 (2.1 GHz/8 -core/20MB /8.0GT-s QPI/95 W, DDR3-1600,HT, Turbo2 - 5/5/6/6/7/7/8/8) Turbo+<br>◦ Intel Xeon E5-2450L (1.8 GHz/8 -core/20M B/8.0GT-s QPI/70 W, DDR3-1600,HT, Turbo 2- 2/2/3/3/4/4/5/5) Turbo+ |

| Feature | Description |
|---|---|
| **Cache memory**(One of the following depending on the model) | • 25MB (1 x 25MB) L3 cache(For ten-core processors)<br>• 20MB (1 x 20MB) L3 (For eight-core processors)<br>• 15MB (1 x 15MB) L3 (For six-core processors)<br>• 10MB (1 x 10MB) L3 (For quad-core processors) |
| **Chipset**(One of the following depending on the model) | • Intel C600 series chipset<br>• Intel E5-2400 processor family<br>• Intel E5-2400v2 processor family |
| **Upgradeability** [4] | • Upgradeable to 2 processors (20 cores) |
| **On-system management chipset** | HP iLO (Firmware: HP iLO 4) |
| **Memory protection**(One of the following depending on model) | • Advanced ECC<br>• Online spare<br>• Lock-step mode |
| **Memory** [5](One of the following depending on the model) | **Type** — **HP SmartMemory**<br>DDR3 Load Reduced (LRDIMM), Registered (RDIMM) or Unbuffered (UDIMM)<br>Maximum Capacity (LRDIMM) — 384GB (12 x 32GB LRDIMM @1333 MHz)<br>Maximum Capacity (RDIMM) — 192GB (12 x 16GB RDIMM @1600 MHz or 1333 MHz)<br>Maximum Capacity (UDIMM) — 96GB (12 x 8GB UDIMM @1333 MHz) |

| Feature | Description |
|---|---|
| **Network controller** | HPE Ethernet 1Gb 4-port 366i Adapter<br><br>The HPE ProLiant DL380e Gen8 server offers the cu stomer a quad-port NIC standard with the option to upgrade with a variety of networking options. |
| **Expansion Slots** | Primary Riser (Standard) |

| Expansion Slots | Technology | Bus Width | Connector Width | Form Factor |
|---|---|---|---|---|
| **Primary Riser (Standard)** | | | | |
| 1 | PCIe 3.0 | X4 | X8 | Full Length, Full Height Slot |
| 2 | PCIe 3.0 | X8 | X16 | Half Length, Full Height Slot |
| 3 | PCIe 3.0 | X8 | X8 | Half Length, Full Height Slot |
| 4 | PCIe 2.0 | X4 | X8 | Low Profile |
| **Primary Riser (Riser with SAS)** | | | | |
| 1 | PCIe 3.0 | X4 | X8 | Full Length, Full Height Slot |
| 2 | PCIe 3.0 | X8 | X16 | Half Length, Full Height Slot |
| 3 | PCIe 3.0 | NA | NA | NA |
| **Secondary Riser (Optional)** | | | | |
| 5 | PCIe 3.0 | X16 | X16 | Full length, full height slot |
| 6 | PCIe 3.0 | X8 | X16 | Half length, full h |

| Feature | Description |
| --- | --- |
| | eight slot |
| **HP Server ROM** | HP ROM (Read Only Memory) is now digitally signed using HP's Corporate Signing Service. This signature is verified before the flash process starts, reducing accidental programming and preventing malicious efforts to corrupt system ROM.<br><br>HP ROM performs very early configuration of the video controller, to allow monitoring of initialization progress via an attached monitor. If configuration or hardware errors are discovered during this early phase of hardware initialization, suitable messages are now displayed on the connected monitor. Additionally, these configuration or hardware errors are logged to the Integrated Management Log (IML) to assist in diagnosis.<br><br>HP's ProLiant ROM is used to configure the following:<br><br>• Processor and chipset status registers<br>• System memory, memory map, and memory initialization<br>• System hardware configuration (Integrated PCI devices and optional PCIe cards).<br>• Customer-specific BIOS configuration (using the HP ROM-Based Setup Utility (RBSU). |
| **Server Power Cords** | High voltage power cord ships standard with all part numbers. |
| **Storage controller** (One of the following depending on the model) | • **Entry model - SATA** [6]:<br><br>HP Dynamic Smart Array B120i Controller<br><br>• **Entry model - SAS** [7]:<br><br>HP Dynamic Smart Array B320i/512MB Flash-Backed Write Cache (FBWC) Controller<br><br>• **Base models - LFF** [8]:<br><br>HP Dynamic Smart Array B320i/512MB FBWC Controller<br><br>• **Base model - SFF** [9]: |

| Feature | Description |
|---|---|
| | HP Dynamic Smart Array B320i/512MB FBWC Controller<br>• **High performance models**:<br>HP Smart Array P420/1GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0)<br>• **Storage models - LFF**:<br>HP Smart Array P420/1GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0)<br>• **Storage models - SFF**:<br>HPE Smart Array P420/2GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0) |
| **Internal storage devices** (One of the following depending on the model) | **Diskette Drive**: **None**<br>**Optical Drive**: Optional<br>DVD-ROM, DVD-RW[10]<br>**Hard Drives**: None ship standard<br>**Drive Bays**: 8 SFF drive bays total with Optical Bay<br>Optional: +8SFF drive bay (total of 16SFF drive bays)[11]<br>8 LFF drive bays total with Optical Bay<br>12 LFF drive bays total without Optical Bay<br>Optional: +2 Rear Drive Bays (LFF or SFF)<br>25 SFF drive bays total without Optical Bay |

| Feature | Description | | |
|---|---|---|---|
| | **Diskette Drive** | **None** | |
| | | Optional: +2 Rear Drive Bays (LFF or SFF) | |
| **Maximum internal storage** (One of the following depending on the model) | **Hot-plug SFF SAS** | **32.4TB** | **27 x 1.2TB (with 25SFF drive cage + Rear 2SFF drive cage)** |
| | Hot-plug SFF SATA | 27.0TB | 27 x 1TB (with 25 SFF drive cage + rear 2 SFF drive cage) |
| | Hot-plug LFF SAS | 56TB | 14 x 4TB (with 12 LFF drive cage + rear 2 LFF drive cage) |
| | Hot-plug LFF SATA | 56TB | 14 x 4TB (with 12LFF drive cage + Rear 2LFF drive cage) |
| | Hot-plug SFF SAS SSD | 21.6TB | 27 x 800GB (with 25 SFF drive cage + rear 2 SFF drive cage) |
| | Hot-plug SFF SATA SSD | 21.6TB | 27 x 800GB (with 25 SFF drive cage + rear 2 SFF drive cage) |
| | Hot-plug LFF SATA SSD | 11.2TB | 14 x 800GB (with 12LFF drive cage + Rear 2LFF drive cage) |
| **Interfaces** | • **Serial**: One | | |

| Feature | Description |
|---|---|
| | • **Video**: Two (1 front, 1 back), not active simultaneously<br>• **LOM network ports**: 4 x 1 GbE ports<br>• **HP iLO remote management network port**: 1Gb dedicated<br>• **SD slot** [12]: One internal secure<br>• **USB 2.0 ports** [13]: Up to seven total: Up to 2 front, 4 back, 1 internal (secure) |
| **Graphics** | Integrated Matrox G200 video standard<br>• 1280 x 1024 (32 b/p)<br>• 1920 x 1200 (16 b/p) |
| **System fans** [14](One of the following depending on the model) | • (4) Hot-Plug Non-redundant Fans ship standard in 1P Models<br>◦ 1P: 4 fans - non-redundancy<br>◦ 1P: 5 fans - redundancy<br>• (6) Hot-plug Redundant Fans ship standard in 2P Models<br>◦ 2P: 5 fans - non-redundancy<br>◦ 2P: 6 fans - redundancy |
| **Security** | • Power-on password<br>• Serial interface control<br>• Administrator's password |
| **HP Insight Management** | HP Insight Control<br>HP iLO Essentials<br>HP iLO Advanced<br>HP Matrix Operating Environment |
| **High Performance Clusters** | • HP Cluster Platforms<br>• HP HPC Interconnects<br>• HP Insight Cluster Management Utility |

| Feature | Description |
| --- | --- |
| **Storage Software** | Whether you need to solve a specific data protection , archiving, or storage command and control challeng e, or deliver on strategic consolidation, compliance, o r continuity initiatives, look no further than HP stora ge software. Our storage software helps you reduce c osts, simplify storage infrastructure, protect vital ass ets and respond faster to business opportunities.<br><br>Storage software that gets the job done:<br><br>• Data Protection and Recovery Software<br>• Data Archive and Migration Software<br>• Storage Resource Management Software (SRM)<br>• Data Replication Software<br>• Storage Device Management Software<br>• HP StoreVirtual VSA |
| **HP Insight Online** | • HP Insight Online is a new addition to the HP Su pport Center for one stop, secure access to prod uct and HP support information personalized to your IT environment.<br>• Insight Online can automatically display devices remotely monitored by HP Insight Remote Sup port. With Insight Online's easy navigation you can efficiently track your IT support contracts an d device status from anywhere and at anytime. |
| **HPC Interconnects** | **NOTE**<br><br>• High Performance Computing (H PC) interconnect technologies a re available for this server under the HP Cluster Platform product portfolio.<br>• These high-speed interconnects are fully supported by HP when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibilit y with the help of configuration tools. |

| Feature | Description |
|---|---|
| **On System Management** | **HP iLO Management Engine**<br><br>HP iLO Management Engine is a comprehensive set of embedded management features supporting the c omplete lifecycle of the server, from initial deployme nt, through ongoing management, to service alerting and remote support. HP iLO Management Engine co mes standard on all HP ProLiant Gen8 servers. The HP iLO Management Engine portfolio includes:<br><br>• HP iLO: The HP iLO (Integrated Lights-Out) man agement processor is the core foundation for the HP iLO Management Engine<br>• HP Agentless Management: Provides built in ser ver health monitoring and alerting capability wit hout OS agents, that starts working the momen t a power cord and an Ethernet cable are conne cted.<br>• HP Agentless Management: Provides built in ser ver health monitoring and alerting capability wit hout OS agents, that starts working the momen t a power cord and an Ethernet cable are conne cted. increased stability and shorter downtimes; 100% configuration history; Health and service a lerts and easy export and upload to Service and Support.<br>• HP Intelligent Provisioning: Lets customers provi sion and configure a single server without any se parate media. No more SmartStart CDs or Smart Update Firmware DVD are needed.<br>• HP iLO Mobile App: Enables the ability to acces s, deploy, and manage your server anytime from anywhere from select smartphones and mobile d evices. |
| **Form factor** (One of the following depending on the model) | • 2U rack form factor<br>• Entry models ship with fixed rails.<br>• All other models ship with sliding rails and cable management system.<br>• **8 SFF drive bay version (H x W x L)**: 8.75 x 44. 55 x 69.85 cm (3.44 x 17.54 x 27.5 in) |

| Feature | Description |
|---|---|
| | • **8 LFF drive bay version (H x W x L)**: 8.75 x 44.55 x 74.94 cm (3.44 x 17.54 x 29.5 in)<br>• **12 LFF drive bay version (H x W x L)**: 8.75 x 44.55 x 74.94 cm (3.44 x 17.54 x 29.5 in)<br>• **25 SFF drive bay version (H x W x L)**: 8.75 x 44.55 x 69.85 cm (3.44 x 17.54 x 27.5 in) |

**NOTE**

**1.** All support up to 1333 MHz DDR3 memory speeds.

**2.** All support up to 1600 MHz DDR3 memory speeds.

**3.** All support up to 1066 MHz DDR3 memory speeds.

HT indicates that the processor model supports Intel Hyper-Threading Technology.

Turbo2 indicates the maximum potential frequency increment when using Intel Turbo Boost Technology, with 8, 7, 6, 5, 4, 3, 2 and 1 cores active.

DDR3 speed is the maximum memory speed of the processor. Actual memory speed may d epend on the quantity and type of DIMMs installed.

Up to 2 processors supported. Mixing different processor models is not supported.

For the Intel C600 Chipset E5-2400 Series, the letter preceding the model number indi cates the Product Line (E3, E5, E7); 2400x v#, 2 = number of CPUs in a Node, 4 is socket/s egment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet design ated) = version number.

4. Processor upgrade available from Intel Xeon Processors E5-2400 to E5-2400 v2. Please contact HP Technology Sales, your local HP Re-seller, or reference the following Customer Advisory: ProLiant Servers-Instructions for Upgrading an HP ProLiant Gen8 Server from a n Intel Xeon Processor E5-2400 to an Intel Xeon Processor E5-2400v2, regarding critical d etails before upgrading. An explanation of requirements and limitations are provided. **Click here for more information on HPE Technology Sales**.

5. HP memory from previous generation servers are not fully compatible with the HP ProLia nt DL380e Gen8 Server.To realize the performance memory capabilities listed in this docum ent, HP SmartMemory is required. **Click here to access the HP SmartMemory QuickSpecs for additional information available** at https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111535. If only one processor is installed, only half the DIMM slots are availa ble. UDIMM max DIMM population is 12. Depending on the memory configuration and proc essor model, the memory speed may run at 1600 MHz, 1333 MHz, or 1066 MHz.

**Click here to see more information on Memory Matrix for ProLiant Gen8 Servers.**

**6.** Provides support for up to 6 SATA drives and data transmission speeds up to 3 Gb/s

| Feature | Description |
|---|---|
| | **7.** Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6 Gb/s and includes SAS license key.<br><br>**8.** Provides support for up to 8 SATA drives, data transmission speeds up to 6 Gb/s and req uires purchase of SAS license key for SAS mode.<br><br>**9.** Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6 Gb/s and includes SAS license key.<br><br>**10.** This option available with all 8SFF or 8LFF drive bay models.<br><br>**11.** The Optical Drive bay is not available with +8SFF drive bay optional upgrade.<br><br>Drive cage changes are not supported except for adding +8SFF to an existing 8SFF drive ca ge.Adding the rear drive cage negates the space required for secondary optional riser slots 5 & 6.All Pre-configured Models come populated with some hard drive blanks installed. Sho uld the customer need additional hard drive blanks, they can order more using either P/N 6 66987-B21: HP SFF Gen8 Hard Drive Blank Kit or P/N 666986-B21: HP LFF Gen8 Hard Dr ive Blank Kit. These part numbers for single HDD blanks below are also provided should the customer require replacement HDD blanks for their server.<br><br>**12.** The 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.<br><br>**13.** 12LFF and 25SFF drive cage models have 1front, 4 back and 1 internal USB ports.<br><br>**14.** Customers may separately purchase redundant fans with the 667855-B21 option kit. Additional fan to support redundancy are also included in -B21 processor option kits when upgrading from one processor to two processors. |

## Physical specifications

| Feature | Description |
|---|---|
| **Dimensions - with bezel (H x W x D)** | • **Small Form Factor (SFF) drives:** 8.75 x 44.55 x 69.85 cm (3.44 x 17.54 x 27.5 in)<br>• **Large Form Factor (LFF) drives:** 8.75 x 44.55 x 74.94 cm (3.44 x 17.54 x 29.5 in) |
| **Weight (approximate)** | • **Maximum:** 32.30 kg (71.20 lb)<br>• **Minimum:** 14.00 kg (30.80 lb) |

# Environmental specifications

| Feature | Description |
|---|---|
| **System inlet temperature** (operating) | 10° to 35°C (50° to 95°F), at sea level with an altit ude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 304 8 m (10,000 ft), no direct sustained sunlight. Maxim um rate of change is 10°C/hr (18°F/hr). The upper li mit may be limited by the type and number of option s installed.<br><br>System performance may be reduced if operating wit h a fan fault or above 30°C (86°F). |
| **System inlet temperature** (non-operating) | -30° to +60°C (-22° to +140°F). Maximum rate of ch ange is 20°C/hr (36°F/hr). |
| **Relative humidity** (operating) | 10% to 90% relative humidity (Rh), 28°C (82.4°F) ma ximum wet bulb temperature, non-condensing |
| **Relative humidity** (non-operating) | 5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing |
| **Altitude** (operating) | 3048 m (10,000 ft). Maximum allowable altitude cha nge rate is 457 m/min (1500 ft/min) |
| **Altitude** (non-operating) | 9144 m (30,000 ft). Maximum allowable altitude cha nge rate is 457 m/min (1500 ft/min) |
| **Acoustic noise** [1] | Listed are the declared A-Weighted sound power l evels (LWAd) and declared average bystander positi on A-Weighted sound pressure levels (LpAm) when t he product is operating in a 23°C ambient environm ent. Noise emissions were measured in accordance w ith ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).<br><br>**Idle**<br><br>**1P Non- Redun dant SKU** / **2P Redundant SKU**<br>**LWAd** 5.8 B / 5.4 B |

| Feature | Description | | |
|---|---|---|---|
| | **Idle** | | |
| | **LpAm** | 41 dBA | 38 dBA |
| | **Operating** | | |
| | | **1P SKU** | **2P SKU** |
| | **LWAd** | 5.9 B | 5.7 B |
| | **LpAm** | 42 dBA | 41 dBA |

**NOTE**

**1.** The Listed sound levels apply to standard shipping configurations. Additional options m ay result in increased sound levels.

## Electrical specifications

| Feature | Description |
|---|---|
| **Input requirements** | |
| **Rated line voltage** | • 100 to 120 V ac<br>• 200 to 240 V ac |
| **Rated input current** | • **For 1200 W power supply:**<br>◦ 10 A (at 100 V ac)<br>◦ 4.9 A (at 200 V ac)<br>• **For 750 W power supply:**<br>◦ 8.9 A (at 100 V ac)<br>◦ 4.3 A (at 200 V ac) |

| Feature | Description |
| --- | --- |
| | • **For 460 W power supply:**<br>  ◦ 5.5 A (at 100 V ac)<br>  ◦ 2.6 A (at 200 V ac) |
| **Rated input frequency** | 50 to 60 Hz |
| **Rated input power** | • **For 1200 W power supply:**<br>  ◦ 930 W (at 100 V ac)<br>  ◦ 1348 W (at 200 V ac)<br>• **For 750 W power supply:**<br>  ◦ 857 W (at 100 V ac)<br>  ◦ 824 W (at 200 V ac)<br>• **For 460 W power supply:**<br>  ◦ 526 W (at 100 V ac)<br>  ◦ 505 W (at 200 V ac) |
| **BTU rating (maximum)** | • **For 1200 W power supply:**<br>  ◦ 3530 Btu/hr (at 100 V ac)<br>  ◦ 4600 Btu/hr (at 200 V ac)<br>• **For 750 W power supply:**<br>  ◦ 2925 Btu/hr (at 100 V ac)<br>  ◦ 2812 Btu/hr (at 200 V ac)<br>• **For 460 W power supply:**<br>  ◦ 1794 Btu/hr (at 100 V ac)<br>  ◦ 1725 Btu/hr (at 200 V ac) |
| **Power supply output** (per power supply) | |
| **Rated steady-state power** | • **For 1200 W power supply:**<br>  ◦ 800 W (at 100 V ac) |

| Feature | Description |
|---|---|
| | ◦ 900 W (at 120 V ac)<br>◦ 1200 W (at 200 to 240 V ac)<br>• **For 750 W power supply:**<br>◦ 750 W (at 100 to 120 V ac)<br>◦ 750 W (at 200 to 240 V ac)<br>• **For 460 W power supply:**<br>◦ 460 W (at 100 to 120 V ac)<br>◦ 460 W (at 200 to 240 V ac) |
| **Maximum peak power** | • **For 1200 W power supply:**<br>◦ 800 W (at 100 V ac)<br>◦ 900 W (at 120 V ac)<br>◦ 1200 W (at 200 to 240 V ac)<br>• **For 750 W power supply:**<br>◦ 750 W (at 100 to 120 V ac)<br>◦ 750 W (at 200 to 240 V ac)<br>• **For 460 W power supply:**<br>◦ 460 W (at 100 to 120 V ac)<br>◦ 460 W (at 200 to 240 V ac) |

## Emissions Classification (EMC)

| Feature | Description |
|---|---|
| **FCC rating** | Class A |
| **Normative standards** | CISPR 22; EN 55022; EN 55024; FCC CFR 47, Pt 15; ICES-003; CNS14336-1; CNS13438; GB4943; GB92 |

| Feature | Description |
|---|---|
| | 54; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1 |

**NOTE**

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

The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

## HPE Dynamic Smart Array B120i Controller

| Feature | Description |
|---|---|
| **Dimensions** | Embedded |
| **Disk drive and enclosure interface - Transfer rate** | Up to 6 Gb/s SATA (Serial ATA) |
| **SAS connectors** | 6 internal SATA connectors |
| **Server interface** | x4 PCIe 2.0 |
| **SAS speed** | 6 Gb/s SATA links |
| **Cache memory** | Zero Memory RAID has no cache memory |
| **Logical drives supported** | Up to 8 logical volumes (6 physical drives) |
| **Host memory addressing** | 64-bit, supporting greater than 4GB server memory space |
| **Hot plug support** | Yes |
| **RAID support** | RAID 0 (Striping), RAID 1 (Mirroring) |
| | RAID 1+0 (Striping & Mirroring) |

## HPE Dynamic Smart Array B320i Controller

| Feature | Description |
|---|---|
| Dimensions | Embedded |
| Disk drive and enclosure interface - transfer rate | Up to 6 Gb/s SATA (Serial ATA) |
| SAS connectors | 2 internal x4 connectors |
| Server interface | x4 PCIe 2.0 |
| SAS speed | 6 Gb/s SAS links |
| Cache memory | Zero Memory RAID has no cache memory optional 4 0-bit 512MB ECC protected Flash Backed Write Cach e (FBWC) |
| Logical drives supported | Zero Memory, Up to 2 logical volumes (6 physical dri ves) |
| Host memory addressing | 64-bit, supporting greater than 4GB server memory space |
| RAID support | RAID 0 (Striping), RAID 1 (Mirroring) |
| | RAID 1+0 (Striping & Mirroring) |
| | RAID 5 with optional 512MB FBWC [1] |

**NOTE**

**1.** 512MB cache is required to enable RAID 5 support. No SAS supported.

## HPE Smart Array P420 Controller

| Feature | Description |
|---|---|
| Dimensions | Low profile PCIe form factor |

| Feature | Description |
|---|---|
| Disk drive and enclosure interface - transfer rate | 6 Gb/s SAS (Serial Attached SCSI) |
| | 3 Gb/s SATA (Serial ATA) |
| SAS connectors | 2 internal 4X connectors |
| Cache memory speed | DDR2-800 MHz with 40 or 72-bit wide bus |
| Server interface | x4 PCIe 2.0 provides 2 GB/s maximum bandwidth |
| SAS speed | Eight 6 Gb/s SAS links provide 4.8 GB/s maximum ba ndwidth |
| Cache memory | Zero memory RAID has no cache memory |
| | 40-bit 256 MB ECC protected cache (battery upgrad e available) |
| | 72-bit 512MB BBWC or 72-bit 512MB and 1G FB WC |
| | Zero memory, Up to 2 logical volumes (8 physical dri ves) |
| Logical drives supported | Up to 64 logical drives with cache |
| Host memory addressing | 64-bit, supporting greater than 4GB server memory space |
| RAID support | RAID 6, 60 (Advanced data guarding) |
| | RAID 5, 50 (Distributed data guarding)[1] |
| | RAID 1+0 (Striping & Mirroring) |

**NOTE**

**1.** Either a minimum of 256MB cache and battery kit or a minimum of 512MB BBWC/FBWC is required to enable RAID 5, 50, 6, 60. HP Smart Array Advanced Pack (SAAP 2.0) is no lon ger required to enable 6 & 60 (Advanced Data Guarding). However, controller must be in fir mware version 4.68 (or later).

# HPE Ethernet 1Gb 4-port 366i Adapter

| Feature | Description |
|---|---|
| Network interface | 10Base-T/100Base-TX/1000Base-TX |
| Compatibility | • IEEE 802.3 10Base-T<br>• IEEE 802.3ab 1000Base-T<br>• IEEE 802.3u 100Base-TX<br>• IEEE 1588, IEEE 802.1AS<br>• IEEE 802.3az - Energy Efficient Ethernet (EEE) |
| Data transfer method | PCI Express v 2.0, 5.0 GT/s, two lanes (x2) |
| Controller | Intel I350 Powerville |
| Network transfer rate | **10Base-T (Half-Duplex)** — **10 Mb/s per port, 40 Mb/s combined**<br>10Base-T (Full-Duplex) — 20 Mb/s per port , 80 Mb/s combined<br>100Base-TX (Half-Duplex) — 100 Mb/s per port, 400 Mb/s combine<br>100Base-TX (Full-Duplex) — 200 Mb/s per port, 800 Mb/s combined<br>1000Base-TX (Half and Full-Duplex) — 1000 Mb/s per port, 4000 Mb/s combined |
| Connector | Two RJ-45 |
| Cable support | **10Base-T** — **Categories 3, 4 or 5 UTP; up to 328 ft (100 m)** |

| Feature | Description | |
|---|---|---|
| | **10Base-T** | **Categories 3, 4 or 5 UTP ; up to 328 ft (100 m)** |
| | 10/100/1000Base-TX | Category 5 or higher UTP; up to 328 ft (100 m) |

## Option Parts

**Subtopics**


- **New model specific parts lists**
- **HPE Unique options**
- **HPE Processors**
- **HPE Memory**
- **HPE Optical drives**
- **HPE Hard drives**
- **HPE Networking**
- **HPE InfiniBand**
- **HPE I/O Expansion Options**
- **HPE Power supplies**
- **HPE Graphic options**
- **HPE Cooling Options**
- **HPE Insight Software**
- **HPE Converged Infrastructure Management Software**
- **High performance clusters**
- **HPE I/O accelerator options**
- **HPE Security**
- **HPE Storage controllers**
- **HPE Cable options**
- **HPE Power cords**
- **HPE Tape backup**
- **HPE Disk backup**
- **HPE Storage options**
- **HPE Uninterruptible Power Systems (UPS)**
- **HPE Basic Power Distribution Units**
- **HPE Remote Monitoring Power Distribution Units**
- **HPE Intelligent Power Distribution Units (iPDU)**
- **HPE Power Distribution Units (PDU)**
- **HPE rack series**

**HPE rack options**
**HPE USB and SD options**
**HPE care pack services**
**HPE Integrated Lights-Out (iLO)**

## New model specific parts lists

**IMPORTANT:** To obtain current part number information for a specific product model, use the Standard Models page for this product family.

- The product Standard Models page now links the model SKU numbers to the spare parts list for each model found on the HP PartSurfer web site. (To report missing or incorrect parts information in PartSurfer, please use the "Contact us" and "Missing or incorrect data" links within the PartSurfer web site utility).
- To look up RoHS-compliant information in PartSurfer, use the components option part number or the sales order number for a system in which the component is used (available in the QuickSpecs or Standard Models page).

## HPE Unique options

| Part Description | Option Part Number |
|---|---|
| HP DL380e Gen8 8-SFF Hard Drive Cage Kit [2] | 668295-B21 |
| HP DL380e Gen8 CPU1 Riser Kit | 661404-B21 |
| HP DL380e Gen8 x16 PCI-e Riser Kit | 661628-B21 |
| HP Graphic Card Power Adapter Kit [3] | 663282-B21 |

**NOTE**

**1.** Upgrades a non-redundant server with additional hot-plug fans.

**2.** With upgrade of 8SFF Cage, there is no Optical Drive support and an additional storage c ontroller is required for 1:1 CTO Server.

**3.** The adapter kit is used to provide power to high-wattage cards (example: graphics cards) that require up to 225 W of power. High wattage cards are supported on the x16 FL/FH sl

| Part Description | Option Part Number |
|---|---|
| ot which is controlled by the second processor. p/n 661628-b21 is required. Because of a si ngle x16 FL/FH slot, we support only one of the below graphic cards at a time. | |

## HPE Processors

| Part Description | Option Part Number |
|---|---|
| **Entry Processors - E5-2400v2 series Processors** [1] | |
| HP DL380e Gen8 Intel Xeon E5-2407v2 (2.4-GHz/ 4-core/10MB/80-W) FIO Processor Kit | 708497-L21 |
| HP DL380e Gen8 Intel Xeon E5-2403v2 (1.8-GHz/ 4-core/10MB/80-W) FIO Processor Kit | 708495-L21 |
| **Base Processors - E5-2400v2 series Processors** [2] | |
| HP DL380e Gen8 Intel Xeon E5-2430Lv2 (2.4-GHz/ 6-core/15MB/60-W) FIO Processor Kit | 746521-L21 |
| HP DL380e Gen8 Intel Xeon E5-2430v2 (2.5-GHz/ 6-core/15MB/80-W) FIO Processor Kit | 724569-L21 |
| HP DL380e Gen8 Intel Xeon E5-2420v2 (2.2-GHz/ 6-core/15MB/80-W) FIO Processor Kit | 724567-L21 |
| HP DL380e Gen8 Intel Xeon E5-2440v2 (1.9-GHz/ 8-core/20MB/95-W) FIO Processor Kit | 724571-L21 |
| **Performance Processors - E5-2400v2 series Processors** [2] | |
| HP DL380e Gen8 Intel Xeon E5-2450v2 (2.5-GHz/ 8-core/20MB/95-W) FIO Processor Kit | 724573-L21 |
| HP DL380e Gen8 Intel Xeon E5-2470v2 (2.4-GHz/ 10-core/25MB/95-W) FIO Processor Kit | 724575-L21 |
| HP DL380e Gen8 Intel Xeon E5-2450Lv2 (1.7-GHz/ 10-core/25MB/60-W) FIO Processor Kit | 746523-L21 |
| **Entry Processors - E5-2400 series Processors** [3] | |

| Part Description | Option Part Number |
|---|---|
| HP DL380e Gen8 Intel Xeon E5-2407 (2.2-GHz, 4-core, 10MB, 80-W) FIO Processor Kit | 661132-L21 |
| HP DL380e Gen8 Intel Xeon E5-2403 (1.8-GHz, 4-core, 10MB, 80-W) FIO Processor Kit | 661134-L21 |
| **Base Processors - E5-2400 series Processors** [4] | |
| HP DL380e Gen8 Intel Xeon E5-2440 (2.4-GHz, 6-core, 15MB, 95-W) FIO Processor Kit | 661124-L21 |
| HP DL380e Gen8 Intel Xeon E5-2430 (2.2-GHz, 6-core, 15MB, 95-W) FIO Processor Kit | 661126-L21 |
| HP DL380e Gen8 Intel Xeon E5-2430L (2.0-GHz, 6-core, 15MB, 60-W) FIO Processor Kit | 661138-L21 |
| HP DL380e Gen8 Intel Xeon E5-2420 (1.9-GHz, 6-core, 15MB, 95-W) FIO Processor Kit | 661128-L21 |
| **Performance Processors - E5-2400 series Processors** [5] | |
| HP DL380e Gen8 Intel Xeon E5-2470 (2.3-GHz, 8-core, 20MB, 95-W) FIO Processor Kit | 661118-L21 |
| HP DL380e Gen8 Intel Xeon E5-2450 (2.1-GHz, 8-core, 20MB, 95-W) FIO Processor Kit | 661120-L21 |
| HP DL380e Gen8 Intel Xeon E5-2450L (1.8-GHz, 8-core, 20MB, 70-W) FIO Processor Kit | 661136-L21 |
| **Entry Processors - E5-2400 series Processors** [6] | |
| HP DL380e Gen8 Intel Xeon E5-2407 (2.2-GHz, 4-core, 10MB, 80-W) Processor Kit | 661132-B21 |
| HP DL380e Gen8 Intel Xeon E5-2403 (1.8-GHz, 4-core, 10MB, 80-W) Processor Kit | 661134-B21 |
| **Base Processors - E5-2400 series Processors** [7] | |
| HP DL380e Gen8 Intel Xeon E5-2440 (2.4-GHz, 6-core, 15MB, 95-W) Processor Kit | 661124-B21 |
| HP DL380e Gen8 Intel Xeon E5-2430 (2.2-GHz, 6-core, 15MB, 95-W) Processor Kit | 661126-B21 |

| Part Description | Option Part Number |
|---|---|
| HP DL380e Gen8 Intel Xeon E5-2430L (2.0-GHz, 6-core, 15MB, 60-W) Processor Kit | 661138-B21 |
| HP DL380e Gen8 Intel Xeon E5-2420 (1.9-GHz, 6-core, 15MB, 95-W) Processor Kit | 661128-B21 |
| **Performance Processors - E5-2400 series Processors** [8] | |
| HP DL380e Gen8 Intel Xeon E5-2470 (2.3-GHz, 8-core, 20MB, 95-W) Processor Kit | 661118-B21 |
| HP DL380e Gen8 Intel Xeon E5-2450 (2.1-GHz, 8-core, 20MB, 95-W) Processor Kit | 661120-B21 |
| HP DL380e Gen8 Intel Xeon E5-2450L (1.8-GHz, 8-core, 20MB, 70-W) Processor Kit | 661136-B21 |

**NOTE**

1. All support up to 1333 MHz memory speeds.
2. All support up to 1600 MHz memory speeds.
3. All support up to 1066 MHz memory speeds.
4. All support up to 1333 MHz DDR3 memory speeds.
5. All support up to 1600 MHz DDR3 memory speeds.
6. All support up to 1066 MHz memory speeds.
7. All support up to 1333 MHz DDR3 memory speeds.
8. All support up to 1600 MHz DDR3 memory speeds.

Up to 2 processors supported. HT indicates that the processor model supports Intel/Hyper-Threading Technology. 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.DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed. For the Intel C600 Chipset E5-2400 and E5-2400 v2 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2400x v#, 2 = number of CPUs in a Node, 4 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# = version number.

# HPE Memory

| Part Description | Option Part Number |
|---|---|
| **Registered DIMMs** (RDIMMs) | |
| HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit [1] | 713981-B21 |
| HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit [1] | 731765-B21 |
| HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit [1] | 713983-B21 |
| HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit [1] | 713985-B21 |
| HP 4GB (1 x 4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit [2] | 647893-B21 |
| HP 4GB (1 x 4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit [2] | 647895-B21 |
| HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit/S-Buy | 647897-S21 |
| HP 8GB (1 x 8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit [2] | 647897-B21 |
| HP 8GB (1 x 8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit [2] | 647899-B21 |
| HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit S-Buy | 647899-S21 |
| HP 8GB (1 x 8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit [2] | 690802-B21 |
| HP 16GB (1 x 16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit [2] | 647901-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit/S-Buy | 647901-S21 |
| HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit S-Buy | 672631-S21 |
| HP 16GB (1 x 16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit [2] | 672631-B21 |
| **Unbuffered with ECC DIMMs** (UDIMMs) | |
| HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit [3] | 713975-B21 |
| HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit [3] | 713977-B21 |
| HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit [3] | 713979-B21 |
| HP 2GB (1 x 2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit [4] | 669320-B21 |
| HP 2GB (1 x 2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit [4] | 647905-B21 |
| HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit/S-Buy | 647905-S21 |
| HP 4GB (1 x 4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit [4] | 669322-B21 |
| HP 4GB (1 x 4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit [4] | 647907-B21 |
| HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit/S-Buy | 647907-S21 |
| HP 8GB (1 x 8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit [4] | 669324-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 8GB (1 x 8GB) Dual Rank x8 PC3L-10600E (DD R3-1333) Unbuffered CAS-9 Low Voltage Memory K it [4] | 647909-B21 |
| **Load Reduced DIMMs** (LRDIMMs) | |
| HP 32GB (1 x 32GB) Quad Rank x4 PC3L-10600L ( DDR3-1333) Load Reduced CAS-9 Low Voltage Me mory Kit [5] | 647903-B21 |

**NOTE**

HP memory from previous generation servers are not fully compatible with Smart Memory features in Gen8 Servers.

1. The following memory is supported by the E5-2400v2 series Processors.
2. The following memory is supported by the E5-2400 series Processors.
3. The following memory is supported by the E5-2400v2 series Processors.
4. The following memory is supported by the E5-2400 series Processors.
5. The following memory is supported by E5-2400v2 or E5-2400 series Processors.

All DDR3 memory option kits consist of one DIMM per kit.**Click here to see more information on Memory Matrix for ProLiant Gen8 Servers.**

PC3L is a low voltage memory.

## HPE Optical drives

| Part Description | Option Part Number |
|---|---|
| HP 12.7-mm slim SATA DVD-ROM JackBlack optical drive | 652232-B21 |
| HP 12.7-mm slim SATA DVD-RW JackBlack optical d rive | 652235-B21 |

# HPE Hard drives

| Part Description | Option Part Number |
|---|---|
| **SAS Hot Plug with SmartDrive SFF (2.5-in) Enterprise Drives** | |
| HP 1.2TB 6G SAS 10K-rpm Small Form Factor (2.5-in) SC Enterprise 3-year Warranty Hard Drive | 697574-B21 |
| HP 900GB 6G SAS 10K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive/S- Buy | 652589-S21 |
| HP 900GB 6G SAS 10K-rpm Small Form Factor (2.5-in) SC Enterprise 3-year Warranty Hard Drive | 652589-B21 |
| HP 600GB 6G SAS 10K-rpm Small Form Factor (2.5-in) SC Enterprise 3-year Warranty Hard Drive | 652583-B21 |
| HP 600GB 6G SAS 10K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive/S- Buy | 652583-S21 |
| HP 450GB 6G SAS 10K-rpm Small Form Factor (2.5-in) SC Enterprise 3-year Warranty Hard Drive | 652572-B21 |
| HP 300GB 6G SAS 10K-rpm Small Form Factor (2.5-in) SC Enterprise 3-year Warranty Hard Drive | 652564-B21 |
| HP 300GB 6G SAS 10K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive/S- Buy | 652564-S21 |
| HP 300GB 6G SAS 15K-rpm Small Form Factor (2.5-in) SC Enterprise 3-year Warranty Hard Drive | 652611-B21 |
| HP 300GB 6G SAS 15K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive/S- Buy | 652611-S21 |
| HP 146GB 6G SAS 15K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive/S- Buy | 652605-S21 |
| HP 146GB 6G SAS 15K-rpm Small Form Factor (2.5-in) SC Enterprise 3-year Warranty Hard Drive | 652605-B21 |
| **SAS Hot Plug SmartDrive SFF (2.5-in) Midline Drives** | |
| HP 1TB 6G SAS 7.2K-rpm Small Form Factor (2.5-in) SC Midline 1-year Warranty Hard Drive | 652749-B21 |
| HP 500GB 6G SAS 7.2K-rpm Small Form Factor (2.5-in) SC Midline 1-year Warranty Hard Drive | 652745-B21 |

| Part Description | Option Part Number |
|---|---|
| **SAS Hot Plug SmartDrive LFF (3.5-in) Enterprise Drives** | |
| HP 600GB 6G SAS 15K-rpm Large Form Factor (3.5 -in) SC Enterprise 3-year Warranty Hard Drive | 652620-B21 |
| HP 450GB 6G SAS 15K-rpm Large Form Factor (3.5 -in) SC Enterprise 3-year Warranty Hard Drive | 652615-B21 |
| **SAS Hot Plug SmartDrive LFF (3.5-in) Midline Drives** | |
| HP 4TB 6G SAS 7.2K rpm LFF (3.5-in) SC Midline 1 -year Warranty Hard Drive | 695510-B21 |
| HP 3TB 6G SAS 7.2K-rpm Large Form Factor (3.5-in ) SC Midline 1-year Warranty Hard Drive | 652766-B21 |
| HP 2TB 6G SAS 7.2K-rpm Large Form Factor (3.5-in ) SC Midline 1-year Warranty Hard Drive | 652757-B21 |
| HP 1TB 6G SAS 7.2K-rpm Large Form Factor (3.5-in ) SC Midline 1-year Warranty Hard Drive | 652753-B21 |
| **6G SATA Hot Plug with SmartDrive SFF (2.5-in) Midline (MDL) Drives** | |
| HP 1TB 6G SATA 7.2K-rpm Small Form Factor (2.5-i n) SC Midline 1-year Warranty Hard Drive | 655710-B21 |
| HP 500GB 6G SATA 7.2K rpm SFF (2.5-in) SC Midlin e 1 yr Warranty Hard Drive/S-Buy | 655708-S21 |
| HP 500GB 6G SATA 7.2K-rpm Small Form Factor (2. 5-in) SC Midline 1-year Warranty Hard Drive | 655708-B21 |
| **6G SATA Hot Plug with SmartDrive LFF (3.5-in) Midline (MDL) Drives** | |
| HP 6TB 6G SATA 7.2K rpm LFF (3.5-in) SC Midline 1yr Warranty Hard Drive | 753874-B21 |
| HP 4TB 6G SATA 7.2K-rpm Large Form Factor (3.5-i n) SC Midline 1-year Warranty Hard Drive | 693687-B21 |
| HP 3TB 6G SATA 7.2K-rpm Large Form Factor (3.5-i n) SC Midline 1-year Warranty Hard Drive | 628061-B21 |
| HP 2TB 6G SATA 7.2K-rpm Large Form Factor (3.5-i n) SC Midline 1-year Warranty Hard Drive | 658079-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 1TB 6G SATA 7.2K-rpm Large Form Factor (3.5-in) SC Midline 1-year Warranty Hard Drive | 657750-B21 |
| HP 1TB 6G SATA 7.2K rpm LFF (3.5-in) SC Midline 1 yr Warranty Hard Drive/S-Buy | 657750-S21 |
| HP 500GB 6G SATA 7.2K rpm LFF (3.5-in) SC Midline 1 yr Wty Hard Drive/S-Buy | 658071-S21 |
| HP 500GB 6G SATA 7.2K-rpm Large Form Factor (3.5-in) SC Midline 1-year Warranty Hard Drive | 658071-B21 |
| **6G SATA Value Endurance Hot Plug SFF (2.5-in) Enterprise Boot Solid State Drives** | |
| HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 717965-B21 |
| HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 734360-B21 |
| **6G SATA Value Endurance Hot Plug LFF (3.5-in) Enterprise Boot Solid State Drives** | |
| HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 718171-B21 |
| HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 734362-B21 |
| **6G SATA Hot Plug LFF (3.5-in) SC 512e Performance Drives** | |
| HP 6TB 6G SATA 7.2K rpm LFF (3.5-in) SC 512e Performance 1yr Warranty HardDrive | 793667-B21 |
| HP 4TB 6G SATA 7.2K rpm LFF (3.5-in) SC 512e Performance 1yr Warranty HardDrives | 793665-B21 |
| **12G SAS Hot Plug Value Endurance SFF (2.5-in) Enterprise Value Solid StateDrives** | |
| HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty SolidState Drive | 762263-B21 |
| HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty SolidState Drive | 762261-B21 |
| **12G SAS Hot Plug Value Endurance LFF (3.5-in) Enterprise Value Solid StateDrives** | |
| HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty SolidState Drive | 762272-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty SolidState Drive | 762270-B21 |
| **12G SAS High Endurance Hot Plug SFF (2.5-in) Enterprise Performance SolidState Drives** | |
| HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr WtySolid State Drive | 741155-B21 |



**NOTE**

This drive supports Gen8 servers only.

| | |
|---|---|
| **12G SAS Mainstream Endurance Hot Plug SFF (2.5-in) Enterprise Mainstream H2Solid State Drives** | |
| HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2Solid State Drive | 779176-B21 |
| HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2Solid State Drive | 779172-B21 |
| HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2Solid State Drive | 779168-B21 |
| HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2Solid State Drive | 779164-B21 |
| **12G SAS Hot Plug SFF (2.5-in) SC Read/Write Intensive Solid State Drives** | |
| HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive | 802891-B21 |
| HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive | 802586-B21 |
| HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive | 802582-B21 |
| HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive | 802578-B21 |
| **6G SATA Value Endurance Hot Plug SFF (2.5-in) Enterprise Value Solid State Drives** | |
| HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty SolidState Drive | 757339-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 717973-B21 |
| HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 717971-B21 |
| HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 739898-B21 |
| HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 739888-B21 |
| HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 717969-B21 |
| **6G SATA Value Endurance Hot Plug LFF (3.5-in) Enterprise Value Solid State Drives** | |
| HP 1.6TB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr WtySolid State Drive | 757342-B21 |
| HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 718189-B21 |
| HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 739900-B21 |
| HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 718183-B21 |
| HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 739890-B21 |
| HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 718177-B21 |
| **6G SATA ME Hot Plug SFF (2.5-in) Enterprise Mainstream Solid State Drives** | |
| HP 800GB 6G SATA Mainstream Endurance Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 691868-B21 |
| HP 400GB 6G SATA Mainstream Endurance Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 691866-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 200GB 6G SATA Mainstream Endurance Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 691864-B21 |
| HP 100GB 6G SATA Mainstream Endurance Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 691862-B21 |
| **6G SATA ME Hot Plug LFF (3.5-in) Enterprise Mainstream Solid State Drives** | |
| HP 800GB 6G SATA Mainstream Endurance Large Form Factor (3.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 691860-B21 |
| HP 400GB 6G SATA Mainstream Endurance Large Form Factor (3.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 691856-B21 |
| HP 200GB 6G SATA Mainstream Endurance Large Form Factor (3.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 691854-B21 |
| HP 100GB 6G SATA Mainstream Endurance Large Form Factor (3.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 691852-B21 |
| **6G SAS ME Hot Plug SFF (2.5-in) Enterprise Mainstream Solid State Drives** | |
| HP 800GB 6G SAS Mainstream Endurance Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 690829-B21 |
| HP 400GB 6G SAS Mainstream Endurance Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 690827-B21 |
| HP 200GB 6G SAS Mainstream Endurance Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 690825-B21 |
| **6G SAS SLC Hot Plug SFF (2.5-in) Enterprise Performance Solid State Drives** | |
| HP 400GB 6G SAS Single Level Cell Small Form Factor (2.5-in) SC Enterprise Performance 3-year Warranty Solid State Drive | 653082-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 200GB 6G SAS Single Level Cell Small Form Factor (2.5-in) SC Enterprise Performance 3-year Warranty Solid State Drive | 653078-B21 |
| **3G SATA MLC Hot Plug SFF (2.5-in) Enterprise Mainstream Solid State Drives** | |
| HP 400GB 3G SATA Multi Level Cell Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 653120-B21 |
| HP 200GB 3G SATA Multi Level Cell Small Form Factor (2.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 653118-B21 |
| **3G SATA MLC Hot Plug LFF (3.5-in) Enterprise Mainstream Solid State Drives** | |
| HP 400GB 3G SATA Multi Level Cell Large Form Factor (3.5-in) SC Enterprise Mainstream 3-year Warranty Solid State Drive | 653126-B21 |
| **Hard Drive Kits** | |
| HP Large Form Factor Gen8 Hard Drive Blank Kit | 666986-B21 |
| HP Small Form Factor Gen8 Hard Drive Blank Kit | 666987-B21 |
| HP 2U Gen8 Rear 2-Large Form Factor Kit [1] | 663278-B21 |
| HP 2U Gen8 Rear 2-Small Form Factor Kit [1] | 663280-B21 |
| HP DL380e Gen8 8 Small Form Factor (SFF) Hard Drive Cage Kit [2] | 668295-B21 |
| **6G SATA 2.5in WI-PLP SCC SSD** | |
| HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive | 804680-B21 |
| HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive | 804674-B21 |
| HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive | 804668-B21 |
| HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive | 804642-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in LP C 3yr Wty Solid State Drive | 831725-B21 |
| **6G SATA 2.5in MU-PLP SCC SSD** | |
| HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive | 804634-B21 |
| HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3y r Wty Solid State Drive | 804628-B21 |
| HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3y r Wty Solid State Drive | 832417-B21 |
| HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3y r Wty Solid State Drive | 804616-B21 |
| **6G SATA 2.5in RI-PLP SCC SSD** | |
| HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive | 804608-B21 |
| HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in S CC 3yr Wty Solid State Drive | 804602-B21 |
| HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in S CC 3yr Wty Solid State Drive | 804596-B21 |
| HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in S CC 3yr Wty Solid State Drive | 804590-B21 |
| HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in S CC 3yr Wty Solid State Drive | 804584-B21 |
| HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive | 804578-B21 |
| **6G SATA 2.5in WI-PLP SC SSD** | |
| HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804677-B21 |
| HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804671-B21 |
| HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804665-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804639-B21 |
| **6G SATA 2.5in MU-PLP SC SSD** | |
| HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804631-B21 |
| HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804625-B21 |
| HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 832414-B21 |
| HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804613-B21 |
| **6G SATA 2.5in RI-PLP SC SSD** | |
| HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804605-B21 |
| HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804599-B21 |
| HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804593-B21 |
| HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804587-B21 |
| HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive | 804581-B21 |
| HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3 yr Wty Solid State Drive | 804575-B21 |
| **6G SATA Hot Plug SFF (2.5-in) SC 512e Drives** | |
| HP 2TB 6G SATA 7.2K rpm SFF (2.5-in) SC 512e 1y r Warranty Hard Drive | 765455-B21 |
| HP 1TB 6G SATA 7.2K rpm SFF (2.5-in) SC 512e 1y r Warranty Hard Drive | 765453-B21 |
| **6G SATA Hot Plug Value Endurance LFF (3.5-in) Converter Enterprise Value G1Solid State Drives** | |

| Part Description | Option Part Number |
|---|---|
| HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1Solid State Drive | 756660-B21 |
| HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1Solid State Drive | 756639-B21 |
| HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1Solid State Drive | 756624-B21 |
| **6G SATA Hot Plug Value Endurance SFF (2.5-in) Enterprise Value G1 Solid StateDrives** | |
| HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 SolidState Drive | 756657-B21 |
| HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive | 756621-B21 |
| **6G SATA Hot Plug Light Endurance SFF (2.5-in) Enterprise Light G1 Solid StateDrives** | |
| HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 SolidState Drive | 756601-B21 |
| **6G SATA Hot Plug Light Endurance LFF (3.5-in) Enterprise Light G1 Solid StateDrives** | |
| HP 960GB 6G SATA Light Endurance LFF 3.5-in SC Converter ENT Light 3yr Wty G1Solid State Drive | 756604-B21 |
| **6G SATA Hot Plug SFF (2.5-in) SC Read Intensive Solid State Drives** | |
| HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3y r Wty Solid State Drive | 789155-B21 |
| HP 480GB 6G SATA Read Intensive SFF 2.5-in SC 3y r Wty Solid State Drive | 789145-B21 |
| HP 240GB 6G SATA Read Intensive SFF 2.5-in SC 3y r Wty Solid State Drive | 789135-B21 |
| **6G SATA Hot Plug LFF (3.5-in) SC Read Intensive Solid State Drives** | |
| HP 960GB 6G SATA Read Intensive LFF 3.5-in SC Co nverter 3yr Wty Solid State Drive | 789157-B21 |
| HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Co nverter 3yr Wty Solid State Drive | 789147-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 240GB 6G SATA Read Intensive LFF 3.5-in SC Co nverter 3yr Wty Solid State Drive | 789137-B21 |
| **12G SAS Hot Plug SmartDrive LFF (3.5-in) Converter Enterprise Drives** | |
| HP 600GB 12G SAS 15K rpm LFF (3.5-in) SC Conve rter Enterprise 3 yr Warranty Hard Drive | 765424-B21 |
| HP 450GB 12G SAS 15K rpm LFF (3.5-in) SC Conve rter Enterprise 3 yr Warranty Hard Drive | 737394-B21 |
| HP 300GB 12G SAS 15K rpm LFF (3.5-in) SC Conve rter Enterprise 3 yr Warranty Hard Drive | 737261-B21 |
| **12G SAS Hot Plug SFF (2.5-in) SC 512e Drives** | |
| HP 2TB 12G SAS 7.2K rpm SFF (2.5-in) SC 512e 1 yr Warranty Hard Drive | 765466-B21 |
| HP 1TB 12G SAS 7.2K rpm SFF (2.5-in) SC 512e 1 yr Warranty Hard Drive | 765464-B21 |
| **12G SAS Hot Plug LFF (3.5-in) Midline (MDL) 512e Drives** | |
| HP 6TB 12G SAS 7.2K rpm LFF (3.5-in) SC Midline 512e 1 yr Warranty Hard Drive | 765259-B21 |
| HP 6TB 6G SATA 7.2K rpm LFF (3.5-in) SC Midline 512e 1 yr Warranty Hard Drive | 765255-B21 |
| HP 4TB 12G SAS 7.2K rpm LFF (3.5-in) SC Midline 512e 1 yr Warranty Hard Drive | 765257-B21 |
| HP 4TB 6G SATA 7.2K rpm LFF (3.5-in) SC Midline 512e 1 yr Warranty Hard Drive | 765253-B21 |
| **12G SAS Hot Plug LFF (3.5-in) SC 512e Performance Drives** | |
| HP 6TB 12G SAS 7.2K rpm LFF (3.5-in) SC 512e Pe rformance 1 yr Warranty Hard Drive | 793671-B21 |
| HP 4TB 12G SAS 7.2K rpm LFF (3.5-in) SC 512e Pe rformance 1 yr Warranty Hard Drive | 793669-B21 |

**NOTE**

All Factory Integrated Models will be populated with sufficient hard drive blanks based on t he number of initial hard drives ordered with the server.

**1.** Supports 2 hot plug drives in the back of server and the kit includes multiple cable optio ns which allow connections between rear, front backplanes and also between rear backplan e, motherboard.

**2.** Provides support for an additional 8 SFF drives. Requires a separate controller. HP recom mends the Smart Array P420 controller with 1Gb of FBWC. The HP ProLiant DL380e Gen 8 Smart Storage solutions are equipped with entirely re-designed Small Form Factor (SFF 2 .5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HP Qualified Hard Drives an

| Part Description | Option Part Number |
|---|---|
| d Solid State Drives. These new carriers provide status and activity indicators as well as cau tion indicators for "Do Not Remove". The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data tra nsfer rate or the system bandwidth will be negotiated down to an acceptable level for all co mponents. Hard drives have either a one year or three year warranty; refer to the specific ha rd drive QuickSpecs for details. | |

## HPE Networking

| Part Description | Option Part Number |
|---|---|
| **Gigabit Ethernet adapters** | |
| HP NC112T PCI Express Gigabit Server Adapter | 503746-B21 |
| HP NC365T 4-port Ethernet Server Adapter | 593722-B21 |
| HP Ethernet 1Gb 4-port 331T Adapter | 647594-B21 |
| HP Ethernet 1Gb 2-port 332T Adapter | 615732-B21 |
| HP Ethernet 1Gb 2-port 361T Adapter | 652497-B21 |
| **10 Gigabit Ethernet Adapters** | |
| HP NC523SFP 10Gb 2-port Server Adapter | 593717-B21 |
| HP Ethernet 10Gb 2-port 530SFP Adapter | 652503-B21 |
| HP Ethernet 10Gb 2-port 530T Adapter | 656596-B21 |
| HP Ethernet 10Gb 2-port 560SFP+ Adapter | 665249-B21 |
| HP Ethernet 10Gb 2-port 561T Adapter | 716591-B21 |
| HP NC552SFP 10Gb 2-port Ethernet Server Adapte r | 614203-B21 |
| **12G SAS Hot Plug with SmartDrive SFF (2.5-in) Enterprise Drives** | |
| HP 600GB 12G SAS 15K rpm SFF (2.5-in) SC Enterp rise 3 yr Warranty Hard Drive | 759212-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 450GB 12G SAS 15K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive | 759210-B21 |
| HP 300GB 12G SAS 15K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive | 759208-B21 |
| **12G SAS Hot Plug SFF (2.5-in) Enterprise Drives** | |
| HP 1.2TB 12G SAS 10K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive | 781518-B21 |
| HP 900GB 12G SAS 10K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive | 785069-B21 |
| HP 600GB 12G SAS 10K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive | 781516-B21 |
| HP 300GB 12G SAS 10K rpm SFF (2.5-in) SC Enterprise 3 yr Warranty Hard Drive | 785067-B21 |
| HP 1.8TB 12G SAS 10K rpm SFF (2.5-in) SC Enterprise 512e 3 yr Warranty Hard | 791034-B21 |

**NOTE**

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

Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.

## HPE InfiniBand

| Part Description | Option Part Number |
|---|---|
| QLogic InfiniBand 4X QDR PCI-e G2 Dual Port HCA | 583211-B21 |
| HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA | 592520-B21 |
| HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter | 649281-B21 |

## HPE I/O Expansion Options

| Part Description | Option Part Number |
|---|---|
| HP DL380e Gen8 CPU1 Riser Kit [1] | 661404-B21 |
| HP DL380e Gen8 CPU1 with SAS Support FIO Riser Kit | 661402-B21 |
| HP DL380e Gen8 x16 PCI-E Riser Kit [2] | 661628-B21 |

**NOTE**

**1.** This kit provides three slots that run off of first processor.

**2.** This kit provides two additional slots that run off of second processor.

## HPE Power supplies

| Part Description | Option Part Number |
|---|---|
| **HP Common Slot Titanium Power Supply Kits** | |
| HP 750W Common Slot Titanium Hot Plug Power Supply Kit [1] | 697581-B21 |
| **HP Common Slot Platinum Plus Power Supply Kits** | |
| HP 460-W Common Slot Platinum Plus Hot-Plug Power Supply Kit | 656362-B21 |
| HP 750-W Common Slot Platinum Plus Hot-Plug Power Supply Kit | 656363-B21 |
| HP 1200-W Common Slot Platinum Plus Hot-Plug Power Supply Kit | 656364-B21 |
| **HP Common Slot Gold Power Supplies** [1] | |
| HP 460-W Common Slot Gold Hot-Plug Power Supply Kit | 503296-B21 |

| Part Description | Option Part Number |
|---|---|
| HP 750-W Common Slot Gold Hot-Plug Power Supply Kit | 512327-B21 |
| **HP Common Slot -48 V dc Power Supplies** | |
| HP 750-W Common Slot -48 V dc Hot-Plug Power Supply Kit | 636673-B21 |

**NOTE**

Mixing of power supplies in the same server is not supported. All power supplies inside a server must be exactly the same model. Mixing Gold, Platinum, and Platinum Plus certified power supplies is not supported.

Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration.

**1.** The above Power Supplies offer 96% Efficiency with support for Intelligent Power Discovery.

The HP 750 W Common Slot -48 V dc power supply does not ship with a power cable. It has been designed with a terminal block connection allowing for custom design of power cords by the user.

Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.

HP ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs).

## HPE Graphic options

| Part Description | Option Part Number |
|---|---|
| NVIDIA Quadro K6000 PCI-E Graphics Adapter | 730874-B21 |
| NVIDIA Tesla K40C 12GB Computational Accelerator | 753960-B21 |
| NVIDIA GRID K2 Reverse Air Flow Dual GPU PCIe Graphics Accelerator | 753958-B21 |

**NOTE**

**1.** The adapter kit is used to provide power to high-wattage cards (example: graphics cards) that require up to 225W of power. High wattage cards are supported on the x16 FL/FH slot

| Part Description | Option Part Number |
|---|---|
| which is controlled by the second processor. p/n 661628-b21 is required. Because of a singl e x16 FL/FH slot, we support only one of the below graphic cards at a time.<br><br>**2.** Only the following OS types are supported: 64-bit Only: Red Hat Enterprise Linux 5.x, Re d Hat Enterprise Linux 6.x, SUSE Linux Enterprise Server 11 SPx. 64-bit Only: Windows Ser ver 2008 R2 SPx.<br><br>**3.** Only the following OS types are supported: 64-bit Only: Red Hat Enterprise Linux 5.x, Re d Hat Enterprise Linux 6.x, SUSE Linux Enterprise Server 11 SPx. 64-bit Only: Windows Ser ver 2008 R2 SPx. | |

## HPE Cooling Options

| Part Description | Option Part Number |
|---|---|
| HP DL380e Gen8 Hot Plug Fan Kit | 667855-B21 |

**NOTE**

This kit contains a single fan and is used to upgrade non-redundant configurations to redun dant configurations.

## HPE Insight Software

| Part Description | Option Part Number |
|---|---|
| **HP Insight Control** | |
| HP Insight Control including 1-year 24x7 Technical S upport and Updates Single Server License | C6N27A |
| HP Insight Control Environment No Media 1 Server i ncl 1 year 24x7 Supp License/S- Buy | C6N27S |
| HP Insight Control including 1 yr 24x7 Technical Sup port and Updates Electronic License | C6N28ABE |

| Part Description | Option Part Number |
|---|---|
| HP Insight w/Microsoft System Center Essentials 20 10 ROK w/1 yr Physical 1 Server SW | C6N28ASE |
| HP Insight Control including 1 yr 24x7 Support ProL iant ML/DL/BL-bundle Single Server FIO License | C6N36A |
| HP Insight Control including 1 yr 24x7 Support ProL iant ML/DL/BL-bundle FIO Electronic License | C6N36ABE |
| HP Insight Control Server Provisioning Media Kit | BD883A |
| HP Insight Management Media Kit | C6N31A |
| HP Insight Control Server Deployment including 1 -year 24x7 Support Electronic License | T9082AAE |
| HP Insight Control Server Deployment including 1 -year 24x7 Support Single Server License | 452151-B21 |
| **HP Integrated Lights-Out (iLO) Advanced for ProLiant** | |
| HP iLO Advanced including 1yr 24x7 Technical Sup port and Updates Single Server License | 512485-B21 |
| HP iLO Advanced including 1 yr 24x7 Technical Sup port and Updates E-LTU | E6U59ABE |
| HP iLO Advanced including 3 yr 24x7 Technical Sup port and Updates E-LTU | E6U64ABE |
| HP iLO Advanced 1 Server License with 3yr 24x7 Te ch Support and Updates | BD505A |
| **HP iLO Essentials** | |
| HP Integrated Lights-Out Essentials including 3yr 2 4x7 Tech Support and Updates Single Svr License | BD774A |
| HP Integrated Lights-Out Essentials including 1yr 2 4x7 Tech Support and Updates Single Svr License | BD775A |

# HPE Converged Infrastructure Management Software

| Part Description | Option Part Number |
|---|---|
| **HP OneView** | |
| HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic | E5Y34A |
| HP OneView Media Kit Phys No Lic | E5Y37A |
| HP OneView w/o iLO Adv incl 3yr 24x7 Supp Phys 1 Svr Lic | E5Y38A |
| HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU | E5Y35AAE |
| HP OneView w/o iLO Adv inc 3yr 24x7 Supp Flex Qt y E-LTU | E5Y39AAE |
| HP OneView for ProLiant DL Server incl 3 yr 24x7 S upp FIO Bundle Physical 1 Svr Lic | E5Y43A |

# High performance clusters

| Part Description | Option Part Number |
|---|---|
| HP Insight Cluster Management Utility 1-year 24x7 Flexible License | QL803B |
| HP Insight Cluster Management Utility 3-year 24x7 Flexible License [1] | BD476A |
| HP Insight Cluster Management Utility Media | BD477A |

**NOTE**

**1.** These part numbers can be used to purchase one certificate for multiple licenses and sup port with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipm ent. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement.

## HPE I/O accelerator options

| Part Description | Option Part Number |
|---|---|
| **Second Generation Accelerators** | |
| HP 365GB Multi Level Cell G2 PCIe ioDrive2 for Pro Liant Servers | 673642-B21 |
| HP 785GB Multi Level Cell G2 PCIe ioDrive2 for Pro Liant Servers | 673644-B21 |
| HP 1205GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers | 673646-B21 |
| HP 2410GB Multi Level Cell G2 PCIe ioDrive2 Duo fo r ProLiant Servers | 673648-B21 |

## HPE Security

| Part Description | Option Part Number |
|---|---|
| HP Trusted Platform Module Option [1] | 488069-B21 |
| HP 2U Security Bezel Kit | 666988-B21 |

**NOTE**

**1.** The Trusted Platform Module (TPM) is a microcontroller chip that can securely store arti facts used to authenticate the server platform. These artifacts can include passwords, certif icates and encryption keys. Windows BitLocker Drive Encryption (BitLocker) is a data prote ction feature available in Windows Server 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocke r to help protect user data and to ensure that a server running Windows Server 2008 has n ot been tampered with while the system was offline.

| Part Description | Option Part Number |
|---|---|

ProLiant OS pre-installed units will come with the partition required for TPM deployment. The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.

## HPE Storage controllers

| Part Description | Option Part Number |
|---|---|
| **SAS Controllers** | |
| **Smart Array P222 Controller** | |
| HP Smart Array P222/512 FBWC 6Gb 1-port internal/1-port Ext SAS controller | 631667-B21 |
| **Smart Array P420 Controller** | |
| HP Smart Array P420/1GB FBWC 6Gb 2-port internal SAS controller | 631670-B21 |
| HP Smart Array P420/2GB FBWC 6Gb 2-port internal SAS controller | 631671-B21 |
| **Smart Array P421 Controller** | |
| HP Smart Array P421/1GB FBWC 6Gb 2-port external SAS controller | 631673-B21 |
| HP Smart Array P421/2GB FBWC 6Gb 2-port external SAS controller | 631674-B21 |
| **HP Smart Array P430 Controller** | |
| HP Smart Array P430/2GB FBWC 6Gb 1-port Int SAS Controller | 698529-B21 |
| HP Smart Array P430/4GB FBWC 12Gb 1-port Int SAS Controller | 698530-B21 |
| **HP Smart Array P431 Controller** | |

| Part Description | Option Part Number |
|---|---|
| HP Smart Array P431/2GB FBWC 6Gb 2-ports Ext SAS Controller | 698531-B21 |
| HP Smart Array P431/4GB FBWC 12Gb 2-ports Ext SAS Controller | 698532-B21 |
| **Smart Array P822 Controller** | |
| HP Smart Array P822/2GB FBWC 2-ports Int/4-ports Ext SAS Controller | 615418-B21 |
| **HP Smart Array P830 Controller** | |
| HP Smart Array P830/4GB FBWC 12Gb 2-ports Int SAS Controller | 698533-B21 |
| **Optional Upgrades** | |
| HP 2GB P-series Smart Array Flash Backed Write Cache | 631681-B21 |
| HP 512MB B-series 36 in Dynamic Smart Array Flash Backed Write Cache for ML/DL | 631922-B21 |
| HP SAS License Key No Media 1 Single Server License forB320i | BC393A |
| HP DL380e Gen8 Smart Array Cable Kit | 672250-B21 |
| HP Gen8 2-port SATA Cable Kit | 675856-B21 |
| HP DL380e Gen8 Internal SAS 540mm Cable Kit | 725601-B21 |
| HP DL380e Gen8 Internal SAS 690mm Cable Kit | 737671-B21 |
| HP DL380e Gen8 Internal SAS 780mm Cable Kit | 737673-B21 |
| HP SmartCache No Media 24x7 Technical Support 1 Svr License | D7S26A |
| HP SmartCache No Media 24x7 Technical Support Flexible License | D7S27A |
| HP Secure Encryption No Media Flexible License per Drive | D8S84A |
| HP SmartCache No Media 24x7 Technical Support Electronic License | D7S27AAE |

| Part Description | Option Part Number |
|---|---|
| **Host Bus Adapter** | |
| HP H220 Host Bus Adapter | 650933-B21 |
| HP H221 Host Bus Adapter | 650931-B21 |
| HP H221 PCIe 3.0 SAS Host Bus Adapter | 729552-B21 |
| HP H222 Host Bus Adapter | 650926-B21 |
| HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter | 412911-B21 |

## HPE Cable options

| Part Description | Option Part Number |
|---|---|
| HP Premier Flex LC/LC multi-mode OM4 2 fiber 15 -m cable | QK735A |
| HP Premier Flex LC/LC multi-mode OM4 2 fiber 1-m cable | QK732A |
| HP Premier Flex LC/LC multi-mode OM4 2 fiber 2-m cable | QK733A |
| HP Premier Flex LC/LC multi-mode OM4 2 fiber 30 -m cable | QK736A |
| HP Premier Flex LC/LC multi-mode OM4 2 fiber 50 -m cable | QK737A |
| HP Premier Flex LC/LC multi-mode OM4 5 fiber 1-m cable | QK734A |

# HPE Power cords

| Part Description | Option Part Number |
|---|---|
| HP 1.83-m 10-A C13 CZ power cord | AF565A |
| HP 1.83-m 10-A C13 DK power cord | AF566A |
| HP 1.83-m 10-A C13 EU power cord | AF568A |
| HP 1.83-m 10-A C13 UK power cord | AF570A |
| HP 1.83-m 10-A C13 IT/CL power cord | AF571A |
| HP 2.5-m 10-A C13 ZA power cord | AF567A |
| HP 3.6-m 15-A 250-V C13-NEMA6-15P Cord | A0N33A |
| HP 1.83-m 10-A C13 power cord | AF556A |

**NOTE**

HP ProLiant servers ships with an IEC-IEC power cord used for rack mounting with Power D istribution Units (PDUs).

# HPE Tape backup

| Part Description | Option Part Number |
|---|---|
| HP StoreEver 1U USB Rack-mount Kit | A8007B |
| HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit | C0L99A |
| HP StoreEver LTO-6 Ultrium 6650 External Tape Dri ve | EH964A |
| HP StoreEver LTO-6 Ultrium 6250 External Tape Dri ve | EH970A |

| Part Description | Option Part Number |
|---|---|

**NOTE**

For Internal drives to be connected to DL servers please make sure that you order rack mou nt kit as well.

**Click here for hardware and software compatibility of HP tape backup products available**.at https://h2 0272.www2.hpe.com/spock/

## HPE Disk backup

| Part Description | Option Part Number |
|---|---|
| **HP RDX Removable Disk Backup System** | |
| HP RDX320 USB3.0 External Disk Backup System | B7B63A |
| HP RDX500 USB3.0 Internal Disk Backup System | B7B64A |
| HP RDX500 USB3.0 External Disk Backup System | B7B66A |
| HP RDX1000 USB3.0 Internal Disk Backup System | B7B67A |
| HP RDX1000 USB3.0 External Disk Backup System | B7B69A |
| **HP StoreOnce Backup systems** | |
| HP StoreOnce 2620 iSCSI Backup | BB852A |

**NOTE**

**Click here for hardware and software compatibility of HP tape backup products availab le**.at https://h20272.www2.hpe.com/spock/

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# HPE Storage options

| Part Description | Option Part Number |
|---|---|
| **Storage Fibre Channel HBA** | |
| **Brocade Fibre Channel HBAs** | |
| HP 81B PCIe 8Gb Fibre Channel Single Port Host Bu s Adapter | AP769B |
| HP 82B PCIe 8Gb Fibre Channel Dual Port Host Bus Adapter | AP770B |
| **Emulex Fibre Channel HBAs** | |
| HP 81E 8Gb Single Port PCI-e Fibre Channel Host B us Adapter | AJ762B |
| HP 82E 8Gb Dual Port PCI-e Fibre Channel Host Bus Adapter | AJ763B |
| HP SN1000E 16Gb 1-port PCIe Fibre Channel Host Bus Adapter | QR558A |
| HP SN1000E 16Gb 2-port PCIe Fibre Channel Host Bus Adapter | QR559A |
| HP StoreFabric SN1100E 16Gb Single Port Fibre Ch annel Host Bus Adapter | C8R38A |
| HP StoreFabric SN1100E 16Gb Dual Port Fibre Chan nel Host Bus Adapter | C8R39A |
| **QLogic Fibre Channel HBAs** | |
| HP 81Q PCI-e Fibre Channel Host Bus Adapter | AK344A |
| HP 82Q 8Gb Dual Port PCI-e Fibre Channel Host Bu s Adapter | AJ764A |
| HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre C hannel Host Bus Adapter | QW971A |
| HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre C hannel Host Bus Adapter | QW972A |

| Part Description | Option Part Number |
|---|---|
| **Converged Network Adapter** | |
| HP CN1100E Dual Port Converged Network Adapter | BK835A |
| HP CN1000Q Dual Port Converged Network Adapter | BS668A |
| HP StoreFabric CN1100R Dual Port Converged Network Adapter | QW990A |

## HPE Uninterruptible Power Systems (UPS)

| Part Description | Option Part Number |
|---|---|
| **HP Rack-mountable UPS** | |
| **HP R1500 G3 Uninterruptible Power Supply (UPS)** | |
| HP R1.5kVA G3 1U NA Uninterruptible Power System | AF469A |
| HP R1.5kVA G3 1U JP/TW Uninterruptible Power System | AF470A |
| HP R1.5kVA G3 1U INTL Uninterruptible Power System | AF471A |
| **HP R/T3000 G2 Uninterruptible Power System (UPS)** | |
| HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System | AF466A |
| HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System | AF467A |
| HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System | AF468A |
| **R5000 Uninterruptible Power System (UPS)** | |
| HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System | AF461A |

| Part Description | Option Part Number |
|---|---|
| HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System | AF460A |
| **R7000 Uninterruptible Power System (UPS)** | |
| HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System | AF462A |
| HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System | AF463A |
| **HP DirectFlow Three Phase UPS Power Unit (1U UPS)** | |
| HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System | G9Y75A |
| HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System | AF478A |
| **Input/Output Module Options for 1U UPS** | |
| HP 30A 400-415 V Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module | AF489A |
| HP 30A 480 V Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module | AF491A |
| HP 30A 480 V Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module | AF492A |
| HP 30A 400-415 V Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module | G9Y76A |
| **HP Tower UPS** | |
| HP T750 G4 NA/JP Uninterruptible Power System | J2P85A |
| HP T1000 G4 NA/JP Uninterruptible Power System | J2P86A |
| HP T1500 G4 NA/JP Uninterruptible Power System | J2P87A |
| **HP Rack/Tower UPS** | |
| HP R/T2200 G4 NA/JP Uninterruptible Power System | J2R00A |
| HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System | J2R01A |
| HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System | J2R02A |
| **HP R1500 G4 Uninterruptible Power Supply (UPS)** | |
| HP R1500 G4 NA Uninterruptible Power System | J2Q99A |

# HPE Basic Power Distribution Units

| Part Description | Option Part Number |
|---|---|
| HP 1.9kVA 120 Volt 12 Outlet NA/JP Basic Power Distribution Unit | H5M54A |
| HP 2.8kVA 120 Volt 18 Outlet NA/JP Basic Power Distribution Unit | H5M55A |
| HP 3.6kVA 200-240 Volt 12 Outlet WW Basic Power Distribution Unit | H5M56A |
| HP 3.6kVA 200-240 Volt 20 Outlet WW Basic Power Distribution Unit | H5M57A |
| HP 4.9kVA 208 Volt 20 Outlet NA/JP Basic Power Distribution Unit | H5M58A |
| HP 4.9kVA 208 Volt 30 Outlet NA/JP Basic Power Distribution Unit | H5M59A |
| HP 8.3kVA 208 Volt 36 Outlet NA/JP Basic Power Distribution Unit | H5M60A |
| HP 8.6kVA 208 Volt Three Phase 18 Outlet NA/JP Basic Power Distribution Unit | H5M61A |
| HP 8.6kVA 208 Volt Three Phase 30 Outlet NA/JP Basic Power Distribution Unit | H5M62A |
| HP 5.7kVA 208 Volt Three Phase 27 Outlet NA/JP Dual Voltage Basic Power Distribution Unit | H5M63A |
| HP 8.6kVA 208 Volt Three Phase 30 Outlet NA/JP Dual Voltage Basic Power Distribution Unit | H5M64A |
| HP 11kVA 400 Volt Three Phase 42 Outlet NA Basic Power Distribution Unit | H5M67A |
| HP 7.3kVA 230 Volt 20 Outlet INTL Basic Power Distribution Unit | H5M68A |
| HP 7.3kVA 230 Volt 30 Outlet INTL Basic Power Distribution Unit | H5M70A |

| Part Description | Option Part Number |
|---|---|
| HP 11kVA 230 Volt 36 Outlet INTL Basic Power Distribution Unit | H5M71A |
| HP 11kVA 400 Volt Three Phase 30 Outlet INTL Basic Power Distribution Unit | H5M72A |
| HP 11kVA 400 Volt Three Phase 42 Outlet INTL Basic Power Distribution Unit | H5M73A |
| HP Hardwired 200-240 Volt 36 Outlet WW Basic Power Distribution Unit | H5M75A |
| HP 13.2kVA 480 Volt Three Phase 15 Outlet NA Basic Power Distribution Unit | H3X07A |
| HP 19.9kVA 480 Volt Three Phase 30 Outlet NA Basic Power Distribution Unit | H3X08A |
| **HP 277 Volt options for H3X07A and H3X08A** | |
| HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer | H3X09A |

## HPE Remote Monitoring Power Distribution Units

| Part Description | Option Part Number |
|---|---|
| HP 2.8kVA 120 Volt 12 Outlet NA/JP Monitored Power Distribution Unit | D9N43A |
| HP 4.9kVA 208 Volt 12 Outlet NA/JP Monitored Power Distribution Unit | D9N44A |
| HP 3.6kVA 200-240 Volt 16 Outlet WW Monitored Power Distribution Unit | D9N45A |
| HP 3.6kVA 200-240 Volt 12 Outlet WW Monitored Power Distribution Unit | D9N46A |
| HP 4.9kVA 208 Volt 24 Outlet NA/JP Monitored Power Distribution Unit | D9N47A |

| Part Description | Option Part Number |
|---|---|
| HP 7.3kVA 230 Volt 24 Outlet INTL Monitored Power Distribution Unit | D9N48A |
| HP 8.3kVA 208 Volt 33 Outlet NA Monitored Power Distribution Unit | D9N49A |
| HP 7.3kVA 230 Volt 36 Outlet INTL Monitored Power Distribution Unit | D9N50A |
| HP 8.6kVA 208 Volt Three Phase 21 Outlet NA/JP Monitored Power Distribution Unit | D9N51A |
| HP 5.7kVA 208 Volt Three Phase 21 Outlet NA/JP Dual Voltage Monitored Power Distribution Unit | D9N52A |
| HP 8.6kVA 208 Volt Three Phase 24 Outlet NA/JP Dual Voltage Monitored Power Distribution Unit | D9N53A |
| HP 17.3kVA 208 Volt Three Phase 27 Outlet NA/JP Monitored Power Distribution Unit | D9N54A |
| HP 11kVA 400 Volt Three Phase 21 Outlet INTL Monitored Power Distribution Unit | D9N55A |
| HP 22kVA 400 Volt Three Phase 33 Outlet INTL Monitored Power Distribution Unit | D9N56A |
| HP 11kVA 400 Volt Three Phase 33 Outlet INTL Monitored Power Distribution Unit | D9N57A |
| HP 14.4kVA 208 Volt Three Phase 24 Outlet NA Monitored Power Distribution Unit | D9N58A |
| HP 17.3kVA 208 Volt Three Phase 24 Outlet NA/JP Monitored Power Distribution Unit | D9N59A |
| HP 22kVA 400 Volt Three Phase 24 Outlet INTL Monitored Power Distribution Unit | D9N60A |
| HP 16.6kVA 400 Volt Three Phase 33 Outlet NA Monitored Power Distribution Unit | D9N61A |
| HP 16.6kVA 400 Volt Three Phase 24 Outlet NA Monitored Power Distribution Unit | D9N62A |
| HP 19.9kVA 480 Volt Three Phase 30 Outlet NA Monitored Power Distribution Unit | D9N63A |

| Part Description | Option Part Number |
|---|---|
| **HP Environmental Sensor for Remote Monitored PDUs** | |
| Environmental Sensor for Remote Monitored PDUs | E2D53A |

## HPE Intelligent Power Distribution Units (iPDU)

| Part Description | Option Part Number |
|---|---|
| **iPDU Core Units** | |
| HP 4.9-kVA 24-A Single-Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF520A |
| HP 8.6-kVA 24-A Three-Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF522A |
| HP 7.3-kVA 32-A Single-Phase INTL Core Intelligent Modular Power Distribution Unit | AF525A |
| HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit | AF526A |
| **iPDU Extension Bars** | |
| HP 5xC13 Intelligent PDU Extension Bar G2 Kit | AF547A |
| HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar | AF528A |
| **HP Managed Power Distribution Units (maPDU)** | |
| **Half Height Models** | |
| HP 3.6kVA 200-240 V Detachable C20 Input (7xC13/1xC19) WW Managed PDU | H8B49A |
| **Full Height Models** | |
| HP 2.8kVA 120 Volt L5-30 Input (24x NEMA 5-20) NA/JP Managed PDU | H8B48A |
| HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Managed PDU | H8B50A |
| HP 8.6kVA 208 Volt L15-30 3 Phase Input (18xC13/6xC19) NA/JP Managed PDU | H8B52A |

| Part Description | Option Part Number |
|---|---|
| HP 8.6kVA 208 Volt L21-30 3 Phase Input (20xC13 /3xC19/1x NEMA 5-20) NA/JP Managed PDU | H8B53A |
| HP 14.4kVA 208V CS8365C 3 Phase Input (12xC13 /12xC19) NA/JP Managed PDU | H8B55A |
| HP 17.3kVA 208V IEC309 60A 3 Phase Input (12xC 13/12xC19) NA/JP Managed PDU | H8B56A |

## HPE Power Distribution Units (PDU)

| Part Description | Option Part Number |
|---|---|
| **Monitored PDUs** | |
| **HP Monitored Power Distribution Unit: Full Rack Version** | |
| HP 8.6-kVA 24-A Single Input Three Phase NA/JP M onitored Power Distribution Unit | AF504A |
| HP 8.3-kVA 40-A Single Input Single Phase NA/JP M onitored Power Distribution Unit | AF506A |
| HP 11-kVA 16-A Single Input Three Phase INTL Mo nitored Power Distribution Unit | AF508A |
| HP 7.3-kVA 32-A Single Input Single Phase INTL M onitored Power Distribution Unit | AF510A |
| **HP Monitored Power Distribution Unit: Half Rack Version** | |
| HP 4.9-kVA 24-A Single Input Single Phase NA/JP M onitored Power Distribution Unit | AF914A |
| HP 7.3-kVA 32-A Single Input Single Phase INTL M onitored Power Distribution Unit | AF915A |

# HPE rack series

| Part Description | Option Part Number |
|---|---|
| **HP Intelligent Series Rack** | |
| HP 636 1075-mm Pallet Intelligent Series Rack | BW895A |
| HP 636 1075-mm Shock Intelligent Series Rack | BW896A |
| HP 642 1075-mm Pallet Intelligent Series Rack | BW903A |
| HP 642 1075-mm Shock Intelligent Series Rack | BW904A |
| HP 647 1075-mm Pallet Intelligent Series Rack | BW911A |
| HP 647 1075-mm Shock Intelligent Series Rack | BW912A |

# HPE rack options

| Part Description | Option Part Number |
|---|---|
| **HP Location Discovery Services** | |
| HP 36U Location Discovery Kit | BW945A |
| HP 42U Location Discovery Kit | BW946A |
| HP 47U Location Discovery Kit | BW947A |
| **HP LCD8500 1U Rackmount Console Kit Models** | |
| HP LCD8500 1U US TAA Rackmount Console Kit | AF645A |
| HP LCD8500 1U US Rackmount Console Kit | AF630A |
| **HP LCD8500 1U Rackmount Console Kit Options** | |
| HP Kit LCD 1.83 m Latch Display Port Cable | G7T29A |
| HP Location Discovery Services LCD8500 Kit | TL052A |
| HP Rack LED Light Kit | BW939A |
| **HP Server Console Switches** | |

| Part Description | Option Part Number |
|---|---|
| HP 0x1x8 G3 KVM Console Switch | AF651A |
| HP 0x2x16 G3 KVM Console Switch | AF652A |
| HP TAA 0x2x16 G3 KVM Console Switch | AF653A |
| HP USB Remote Access Key for G3 KVM Console Switches | AF650A |
| **HP USB Keyboard and Mouse** | |
| HP USB BFR with PVC Free US Keyboard/Mouse Kit | 631341-B21 |
| HP USB BFR with PVC Free UK Keyboard/Mouse Kit | 631344-B21 |
| HP USB BFR with PVC Free FR Keyboard/Mouse Kit | 631346-B21 |
| HP USB BFR with PVC Free ES Keyboard/Mouse Kit | 631348-B21 |
| HP USB BFR with PVC Free DE Keyboard/Mouse Kit | 631358-B21 |
| HP USB BFR with PVC Free JP Keyboard/Mouse Kit | 631360-B21 |
| HP USB BFR with PVC Free IT Keyboard/Mouse Kit | 631362-B21 |
| HP USB BFR with PVC Free CN Keyboard/Mouse Kit | 631364-B21 |
| HP USB BFR with PVC Free AE Keyboard/Mouse Kit | 638212-B21 |
| HP USB BFR with PVC Free RU Keyboard/Mouse Kit | 638214-B21 |
| HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit | 672097-373 |
| HP USB BFR with PVC Free Intl Keyboard/Mouse Kit | 672097-B33 |
| HP USB BFR with PVC Free PT Keyboard/Mouse Kit | 672097-133 |
| HP USB BFR with PVC Free TR Keyboard/Mouse Kit | 672097-143 |
| HP USB BFR with PVC Free CZ Keyboard/Mouse Kit | 672097-223 |
| HP USB BFR with PVC Free FI Keyboard/Mouse Kit | 672097-353 |
| HP USB BFR with PVC Free SE Keyboard/Mouse Kit | 672097-103 |
| HP USB BFR with PVC Free CH Keyboard/Mouse Kit | 672097-113 |
| HP USB BFR with PVC Free KR Keyboard/Mouse Kit | 672097-KD3 |

| Part Description | Option Part Number |
|---|---|
| HP USB BFR with PVC Free IN Keyboard/Mouse Kit | 672097-D63 |
| **HP TFT7600 G2 KVM Console Rackmount Keyboard Monitor** | |
| HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor | AZ870A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard UK Monitor | AZ871A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard DE Monitor | AZ872A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard FR Monitor | AZ873A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard IT Monitor | AZ874A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard ES Monitor | AZ875A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard DK Monitor | AZ876A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard NO Monitor | AZ877A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard SE/FI Monitor | AZ878A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard CH Monitor | AZ879A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard PT Monitor | AZ880A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard BE Monitor | AZ881A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard JP Monitor | AZ882A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard RU Monitor | AZ883A |

| Part Description | Option Part Number |
|---|---|
| HP TFT7600 G2 KVM Console Rackmount Keyboard Intl Monitor | AZ884A |
| HP TFT7600 G2 KVM Console Rackmount Keyboard US TAA Monitor | AZ885A |
| **HP Server Console Switches** | |
| HP Server Console 0x2x8 Port Analog Switch | AF616A |
| HP Server Console 0x2x16 Port Analog Switch | AF617A |
| HP TAA 0x2x16xKVM Server Console G2 Switch | AF626A |
| **HP Server Console Switch G2 with Virtual Media & CAC** | |
| HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software | AF618A |
| HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software | AF619A |
| HP KVM CAT5 1-pack USB Interface Adapter | 336047-B21 |
| **HP IP Console Switch G2 with Virtual Media & CAC** | |
| HP 1x4 USB/PS2 KVM Console Switch | AF611A |
| HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software | AF620A |
| HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software | AF621A |
| HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software | AF622A |
| **Rail Kits** | |
| HP 2U Large Form Factor Ball Bearing Gen8 Rail Kit | 663480-B21 |
| HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit | 663478-B21 |
| HP 2U FIO Friction Rail Kit | 663476-B21 |
| HP Rack Cable Management Velcro Clips | 379820-B21 |

| Part Description | Option Part Number |
|---|---|

**NOTE**

Gen8 rail kits have changed significantly from prior generation rail kits. Please take a mome nt to review the installation documentation that comes with the server to help you with the installation of your Gen8 server.

Rail kits are optional for DL380p Gen8 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit.

Ball bearing rail kits contain telescoping rails which allow for in-rack serviceability.

The HP 2U Gen8 Cable Management Arm is not available when using Friction Rails.

To assist in the installation of the server into the rack an optional installation tool is availabl e by contacting your local services representative (p/n 695539-001). Caution: HP recomme nds 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 install ation.

## HPE USB and SD options

| Part Description | Option Part Number |
|---|---|
| HP 8GB USB Enterprise Mainstream Flash Media Dri ve Key Kit | 737953-B21 |
| HP 2GB USB Flash Media Drive Key Kit [1] | 608447-B21 |
| HP 8GB SD Enterprise Mainstream Flash Media Kit | 726113-B21 |
| HP 32GB SD Mainstream Flash Media Kit | 700136-B21 |

**NOTE**

**1.** HP qualified blank USB key for use with HP ProLiant servers that support the VMware v irtualization environment and other HP value-add software. HP recommends this industry standard USB flash device for use with VMware ESXi. USB device must be installed in the i nternal slot of the ProLiant server for use with VMware ESXi. Refer to HP VMware Getting Started Guide for installation instructions.

# HPE care pack services

| Part Description | Option Part Number |
|---|---|
| **Proactive Care** | |
| HP 3-year 4-hour 24x7 DL380e ProCare Service | U6E33E |
| HP 3-year 4-hour 24x7 with Defective Media Retenti on DL380e ProCare Service | U6E34E |
| HP 3-year 6-hour Call-to-Repair 24x7 DL380e ProC are Service | U6E39E |
| HP 3-year 6-hour Call to Repair 24x7 with Defecti ve Media Retention ProLiant DL380e Proactive Care Svc | U6E40E |
| HP 3-year 4-hour 24x7 ProLiant DL380e with Insigh t Control Proactive Care Service | U6G61E |
| HP 3 year 4-Hour 24x7 with Comprehensive Defect ive Material Retention DL380e Proactive Care Servic e | U9C04E |
| HP 3-year 4-hour 24x7 with Defective Media Retent ion DL380e with Insight Control Proactive Care Servi ce | U6G62E |
| HP 3-year 6-hour Call to Repair 24x7 ProLiant DL38 0e with Insight Control Proactive Care Service | U6G63E |
| HP 3 year 4-Hour 24x7 w/Comprehensive Defective Material Retention DL380e w/IC ProactiveCare Servi ce | U9C15E |
| HP 3-year 6-hour Call to Repair 24x7 with Defective Media Retention DL380e with Insight Control Proact ive Care SVC | U6G64E |
| **Foundation Care** | |
| HP 3 year 24x7 DL380e Foundation Care Service | U2GN9E |
| HP 3 year 24x7 with Defective Media Retention DL3 80e Foundation Care Service | U2GP0E |

| Part Description | Option Part Number |
|---|---|
| HP 3 year 24x7 with Comprehensive Defective Material Retention DL380e Foundation Care Service | U2GP1E |
| HP 3 year 24x7 DL380e w/IC Foundation Care Service | U2JB1E |
| HP 3 year 24x7 with Defective Media Retention DL380e w/IC Foundation Care Service | U2JB2E |
| HP 3 year 24x7 with Comprehensive Defective Material Retention DL380e w/IC Foundation Care Service | U2JB3E |
| **Collaborative Support** | |
| HP 3 year 4 hour 24x7 ProLiant DL380e Collaborative Support | U6E31E |
| HP 3-year 4-hour 24x7 with Defective Media Retention DL380e Collaborative Support | U6E32E |
| HP 3-year 6-hour Call-to-Repair 24x7 DL380e Collaborative Support | U6E37E |
| HP 3-year 6-hour Call-to-Repair 24x7 with Defective Media Retention DL380e Collaborative Support | U6E38E |
| **Proactive Care Personalized Support Option** | |
| HP 3-year Provides annual personalized proactive support for existing Proactive Care ISS centric environment | U6W98E |
| **Installation Services** | |
| HP Install ProLiant DL380e Service | U6E81E |
| HP Startup ProLiant DL380e Service | U6E83E |

**NOTE**

Collaborative Support plus Proactive services delivered by the onshore, local language Advanced Solution Center (ASC), end-to-end case ownership from a Technical Solution Specialists and Technical Account Manager who remotely delivers firmware/software revision management, proactive scans and incident trend reports. Recommended for customers running a virtualized infrastructure and/or customers who desire an enhanced call support experience .

Hardware break/fix plus 24x7 software diagnosis support with collaborative call management for a broad spectrum of 3rd Party software products including O/S and hypervisors. Reco

| Part Description | Option Part Number |
|---|---|
| mmended for customers procuring 3rd party SW O/S and hypervisors from the software ven dors directly and deploying them on HP ProLiant servers.<br><br>To add an onsite Account Support Manager (ASM) to Proactive Care. ASM is an assigned resource who delivers support planning and brings technical expertise and best practices a dvices for the customer's environment.<br><br>Reduce the time required to get your system up and running and help minimize disruptions to your business.<br><br>**Click here for more information on carepack**. | |

## HPE Integrated Lights-Out (iLO)

| Part Description | Option Part Number |
|---|---|
| HP iLO Advanced including 1-year 24x7 Technical S upport and Updates Electronic License | TA850AAE |
| HP iLO Advanced Electronic License with 3-year 24x 7 Tech Support and Updates | BD506AAE |
| HP iLO Advanced including 1-year 24x7 Technical S upport and Updates Single Server License | 512485-B21 |
| HP Integrated Lights-Out Essentials including 3-yea r 24x7 Tech Support and Updates E-LTU | BD774AAE |
| HP Integrated Lights-Out Essentials including 3 yr 2 4x7 Technical Support and Updates E-LTU | E6U61ABE |
| HP Integrated Lights-Out Essentials including 3-yea r 24x7 Tech Support and Updates Single Svr License | BD774A |
| HP Integrated Lights-Out Essentials including 1 yr 2 4x7 Technical Support and Updates E-LTU | E6U62ABE |
| HP Integrated Lights-Out Essentials including 1-yea r 24x7 Tech Support and Updates E-LTU | BD775AAE |
| HP Integrated Lights-Out Essentials including 1-yea r 24x7 Tech Support and Updates Single Svr License | BD775A |

# Spare Parts

**Subtopics**

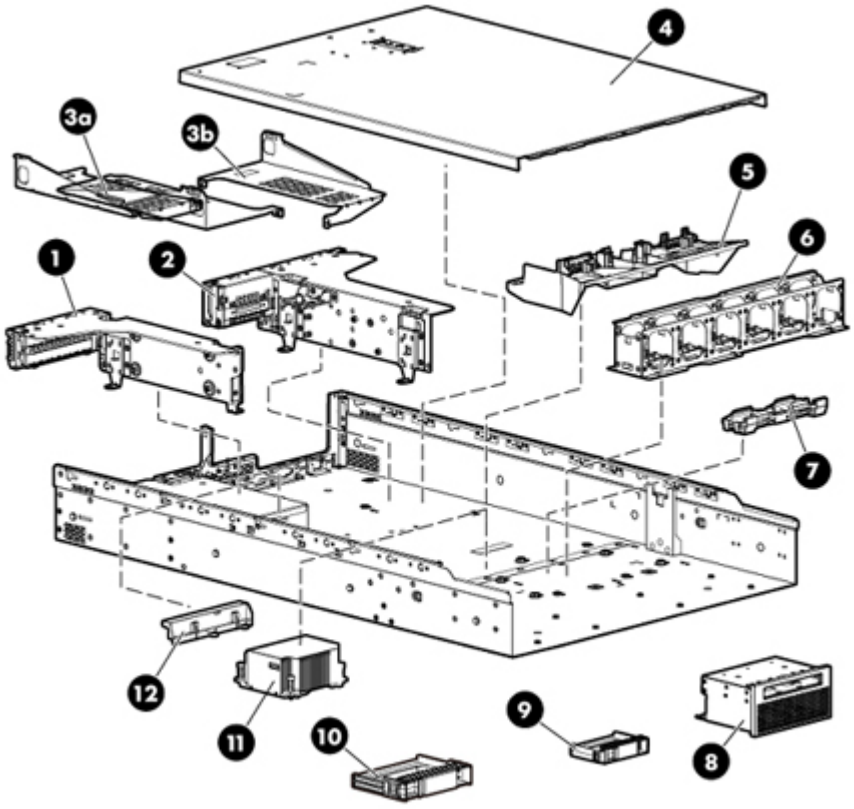
**New model-specific parts lists**
**Mechanical components**
**System components**

## New model-specific parts lists

**IMPORTANT:** To obtain current part number information for a specific product model, use the Standard Models page for this product family.

- The product Standard Models page now links the model SKU numbers to the spare parts list for each model found on the HP PartSurfer website. (To report missing or incorrect parts information in PartSurfer, please use the "Contact us" and "Missing or incorrect data" links within the PartSurfer website utility).
- To look up RoHS-compliant information in PartSurfer, use the component's option part number or the sales order number for a system in which the component is used (available in the QuickSpecs or Standard Models page).

## Mechanical components




| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| 1 | PCI riser cage (secondary) - L-shaped metal structure - For a full height, PCIe, two slot riser board | 688037-001 | Optional [2] |
| 2 | PCI riser cage - T-shaped metal structure, low profile single slot PCIe riser board - For use with a full height PCIe riser board | 684895-001 | Optional [2] |
| 3 | Grapics Processor Unit (GPU) brackets - For supporting a GPU board when installed in one of the PCIe riser cages - Includes one bracket for the primary and one for the secondary PCIe riser cage | 684901-001 | Mandatory [3] |
| | Secondary GPU bracket | | |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | Primary GPU bracket | | |
| 4 | **Access panel** | | |
| 4a | Access panel (top cover) - For use with 8-bay large form factor (LFF), 8-bay small form factor (SFF), and 16-bay SFF drive server models | 687951-001 | Mandatory [3] |
| 4b | Access panel (top cover) - For use with 12-bay large form factor (LFF), and 25-bay small form factor (SFF) drive server models [1] | 687952-001 | Mandatory [3] |
| 5 | Airflow baffle | 684891-001 | Mandatory [3] |
| 6 | Fan cage assembly | 684890-001 | Optional [2] |
| 7 | Capacitor (battery) pack holder | 687957-001 | Mandatory [3] |
| 8 | | 687959-001 | Optional [2] |
| 9 | Hard drive blank (cover) - Small Form Factor (SFF) | 670033-001 | Mandatory [3] |
| 10 | Hard drive blank (cover) - Large Form Factor (LFF) | 675039-001 | Mandatory [3] |
| | Plastics kit - Includes small form factor blank, low profile PCI array bracket, slimline bracket, M2 screws (0.4x.2.1 mm), TT screws (6-32x.160,SLT-T15), power supply blank, and LC2UG6 rear I/O panel | 507260-001 | |
| 11 | Heatsink | 677090-001 | Optional [2] |
| 12 | Power supply airflow baffle | 684894-001 | Mandatory [3] |
| 13 | **Hardware blank kit** | 687953-001 | Mandatory [3] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | Optical drive blank [1] | | |
| | Fan blank [1] | | |
| | Heatsink blank [1] | | |
| | Power supply blank [1] | | |

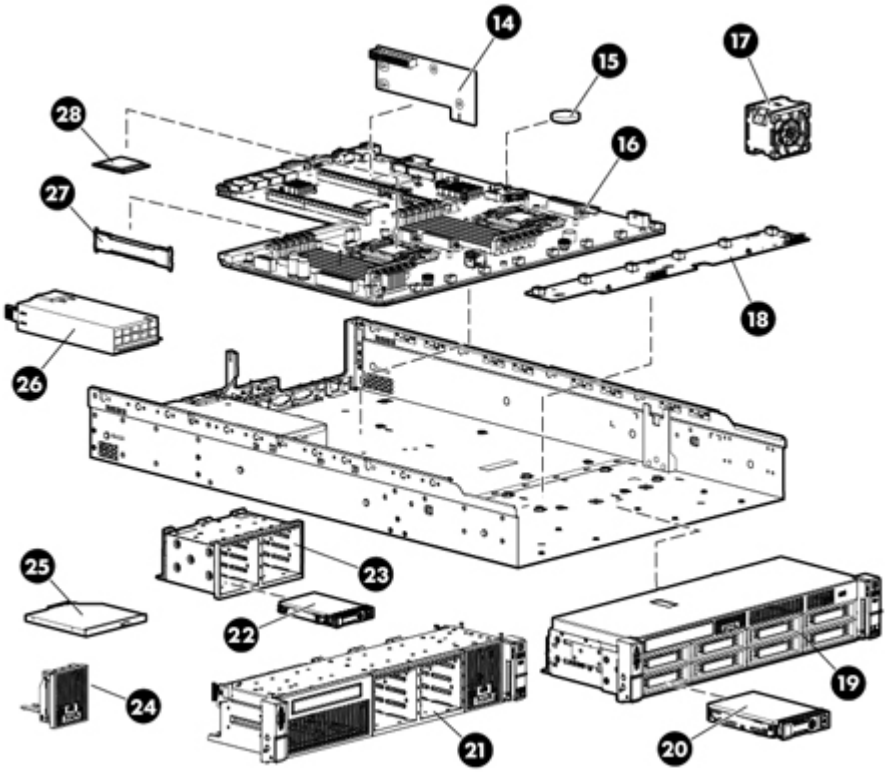
**NOTE**

**1.** Not shown

**2.** Optional — Parts for which customer self repair is optional. These parts are also designe d for customer self repair. If,however, it is required to HP replace them for , there may or m ay not be additional charges, depending on the typeof warranty service designated for the product.

**3.** Mandatory — Parts for which customer self repair is mandatory. If the user requests HP to replace these parts, User will becharged for the travel and labor costs of this service.

## System components




| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| 14 | **PCIe riser board options** | | |
| 14a | PCIe low-profile riser board - Mounts on the primary riser cage towards the power supply | 684898-001 | Mandatory [5] |
| 14b | PCIe riser board without SAS controller - Has three PCIe connectors [1] | 684897-001 | Mandatory [5] |
| 14c | PCIe riser board with SAS controller - Has two PCIe connectors [1,2] | 684896-001 | Mandatory [5] |
| 14d | PCIe riser board - Has 2 PCIe connectors, central processing unit (CPU) 2 [1] | 687962-001 | Mandatory [5] |
| 15 | Battery for real-time clock (RTC) - 3.0 V, 220 mAh, lithium coin cell, 20 mm | 234556-001 | Optional [6] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | diameter, 3.2 mm height (CR2032) | | |
| 16 | **System board assemblies** (include alcohol pad and thermalcompound) | | |
| 16a | **System board assembly for Intel Xeon E5-2400 processors** | 684893-001 | Optional [6] |
| | System board with subpan | | |
| | System board tray [1] | | |
| | PSU air baffle [1] | | |
| | Accessory kit [1] | | |
| 16b | **System board assembly for Intel Xeon E5-2400 and E5-2400v2 processors** | 732145-001 | Optional [6] |
| | System board with subpan [1] | | |
| | System board tray [1] | | |
| | PSU air baffle [1] | | |
| | Accessory kit [1] | | |
| 17 | Hot-plug fan module assembly | 662520-001 | Mandatory [5] |
| 18 | Fan backplane board | 684889-001 | Mandatory [5] |
| 19 | **LFF drive cage assemblies** | | |
| 19a | Drive cage assembly - 8-bay, large Form Factor (LFF) - Includes the optical drive bay, drive connector backplane board, power cable, and one 70cm (27.5in) long mini-SAS interface cable | 684888-001 | Optional [6] |
| 19b | Drive cage assembly - 12-bay, large form factor (L | 684886-001 | Optional [6] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | FF) - Includes expander drive connector backplane board (two mini-SAS connectors), power cable, and two 50cm (19.7in) long mini-SAS interface cables [1] | | |
| 19c | 2-bay Large Form Factor (LFF) rear drive cage assembly - Includes the drive connector backplane board, two cables to connect to the expander backplane board, and two cables to connect to the system I/O board (one or the other cable sets are used) [1] | 684899-001 | Mandatory [5] |
| 20 | **LFF drives** (8.89 cm, 3.5 in) | | |
| | **SAS drives** | | |
| 20a | 450GB hot-plug dual-port SAS hard disk drive - 15,000 RPM, 6Gb/sec transfer rate, 3.5-in large form factor (LFF), Enterprise, SmartDrive Carrier (SC) - Not for use in MSA products | 653951-001 | Mandatory [5] |
| 20b | 600GB SAS hard disk drive - 15,000 RPM, 6Gb per second transfer rate, 3.5-in large form factor (LFF), Enterprise, SmartDrive carrier (SC), hot-plug, dual-port (DP) [1] | 653952-001 | Mandatory [5] |
| 20c | 1TB hot-plug dual-port SAS hard disk drive - 7,200 RPM, 6Gb/sec transfer rate, 3.5-in large form factor (LFF), Midline, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 653947-001 | Mandatory [5] |
| 20d | 2TB hot-plug dual-port SAS hard disk drive - 7,2 | 653948-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | 00 RPM, 6Gb/sec transfe r rate, 3.5-in large form fa ctor (LFF), Midline, Smar tDrive Carrier (SC) - Not for use in MSA products [1] | | |
| 20e | 3TB hot-plug dual-port SAS hard disk drive - 7,2 00 RPM, 6Gb/sec transfe r rate, 3.5-in large form fa ctor (LFF), Midline, Smar tDrive Carrier (SC) - Not for use in MSA products [1] | 653959-001 | Mandatory [5] |
| | **SATA drives** | | |
| 20f | 80GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfe r rate, 3.5-in large form fa ctor (LFF), Value Enduran ce, Enterprise Boot, Smart Drive Carier (SC) [1] | 734563-001 | Mandatory [5] |
| 20g | 100GB hot-plug Solid State Drive (SSD) - SATA interface, 3Gb/sec transfe r rate, 3.5-in large form fa ctor (LFF), Multi-Level Ce ll (MLC), Enterprise Main stream, SmartDrive Carrie r (SC) [1] | 653968-001 | Mandatory [5] |
| 20h | 120GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfe r rate, 3.5-in large form factor (LFF), Enterprise Boot, SmartDrive Carrier (SC) [1] | 718300-001 | Mandatory [5] |
| 20i | 200GB hot-plug Solid State Drive (SSD) - SATA interface, 3Gb/sec transfe r rate, 3.5-in large form fa ctor (LFF), Multi-Level Ce ll (MLC), Enterprise Main | 653969-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | stream, SmartDrive Carrier (SC) [1] | | |
| 20j | 240GB SATA Solid State Drive (SSD) - 6Gb per second Transfer Rate (TR), 3.5-in form factor [1] | 741239-001 | Mandatory [5] |
| 20k | 240GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfer rate, 3.5-in large form factor (LFF), Value Endurance, Enterprise Value, SmartDrive Carrier (SC) [1] | 718294-001 | Mandatory [5] |
| 20l | 400GB hot-plug Solid State Drive (SSD) - SATA interface, 3Gb/sec transfer rate, 3.5-in large form factor (LFF), Multi-Level Cell (MLC), Enterprise Mainstream, SmartDrive Carrier (SC) [1] | 653970-001 | Mandatory [5] |
| 20m | 480GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfer rate, 3.5-in large form factor (LFF), Value Endurance, Enterprise Value, SmartDrive Carrier (SC) [1] | 718296-001 | Mandatory [5] |
| 20n | 500GB hot-plug SATA hard disk drive - 7,200 RPM, 6Gb/sec transfer rate, 3.5-in large form factor (LFF), Midline, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 658103-001 | Mandatory [5] |
| 20o | 600GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfer rate, 3.5-in large form factor (LFF), Value Endurance, Enterprise Value, SmartDrive carrier (SC) [1] | 739960-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| 20p | 800GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfer rate, 3.5-in large form factor (LFF), Value Endurance, Enterprise Value, SmartDrive Carrier (SC) [1] | 718298-001 | Mandatory [5] |
| 20q | 1TB hot-plug SATA hard disk drive - 7,200 RPM, 6 Gb/sec transfer rate, 3.5-in large form factor (LFF), Midline, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 657739-001 | Mandatory [5] |
| 20r | 2TB hot-plug SATA hard disk drive - 7,200 RPM, 6 Gb/sec transfer rate, 3.5-in large form factor (LFF), Midline, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 658102-001 | Mandatory [5] |
| 20s | 2TB SATA hard disk drive (HDD) - 7,200 RPM, 3.5-in form factor, midline (MDL), SmartDrive carrier (SC) [1] | 739711-001 | Mandatory [5] |
| 20t | 3TB hot-plug SATA hard disk drive - 7,200 RPM, 6 Gb/sec transfer rate, 3.5-in large form factor (LFF), Midline, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 628182-001 | Mandatory [5] |
| 20u | 3TB SATA hard disk drive (HDD) - 7,200 RPM, 3.5-in form factor, 6Gb per second transfer rate, midline (MDL), single controller (SC) - Includes large form factor (LFF) carrier assembly [1] | 738041-001 | Mandatory [5] |
| 20v | 3TB SATA hard disk drive (HDD) - 7,200 RPM, 3.5-i | 739710-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | n form factor, 6Gb/s trans fer rate, midline (MDL), si ngle controller (SC) [1] | | |
| 20w | 4TB SATA hard drive- 7,2 00 RPM, 3.5-in [1] | 738352-001 | Mandatory [5] |
| 21 | **SFF drive cage assemblies** | | |
| 21a | 8-bay, Small Form Factor (SFF) drive cage assemb ly - Includes the drive co nnector backplane board , power cable, USB conn ector cage, and two mini -SAS interface cable (500 mm (19.7 in) long) | 684887-001 | Mandatory [5] |
| 21b | Hard disk drive (HDD) ca ge assembly - 25-bay, s mall form factor (SFF) - Includes point-to-point b ackplane connector cable , power cable, 50.0cm (1. 64ft) long mini-SAS cable , 70cm (27.5in) long mini -SAS cable, and a 85cm ( 33.5in) long mini-SAS ca ble [1] | 687961-001 | Mandatory [5] |
| 21c | Rear hard disk drive (HD D) media cage assembly - 2-bay, small form factor ( SFF) - Includes drive con nector backplane board, t wo connection cables, an d two system board conn ection cables [1] | 684900-001 | Mandatory [5] |
| 22 | **SFF drives** (6.35 cm, 2.5 in) | | |
| | **SAS drives** | | |
| 22a | 72GB hot-plug dual-port SAS hard disk drive - 15 ,000 RPM, 6Gb/sec trans fer rate, 2.5-in small form factor (SFF), Enterprise, S martDrive Carrier (SC) - | 653949-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | Not for use in MSA products | | |
| 22b | 146GB hot-plug dual-port SAS hard disk drive - 15,000 RPM, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Enterprise, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 653950-001 | Mandatory [5] |
| 22c | 200GB hot-plug Solid State Drive (SSD) - SAS interface, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Single-Level Cell (SLC), SmartDrive Carrier (SC) [1] | 653961-001 | Mandatory [5] |
| 22d | 200GB hot-plug Solid State Drive (SSD) - SAS interface, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Multi-Level Cell (MLC), Enterprise Mainstream, SmartDrive Carrier (SC) [1] | 658580-001 | Mandatory [5] |
| 22e | 300GB hot-plug dual-port, SAS hard disk drive - 10,000 RPM, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), SmartDrive Carrier (SC) [1] | 696739-001 | Mandatory [5] |
| 22f | 300GB hot-plug dual-port SAS hard disk drive - 10,000 RPM, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Enterprise, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 653955-001 | Mandatory [5] |
| 22g | 300GB SAS hard disk drive (HDD) - 10,000 RPM, 2.5-in form factor, 6.0Gb per second Transfer Rate | 728759-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | (TR), Enterprise, SmartDrive carrier (SC) [1] | | |
| 22h | 300GB hot-plug dual-port SAS hard disk drive - 15,000 RPM, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Enterprise, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 653960-001 | Mandatory [5] |
| 22i | 400GB hot-plug Solid State Drive (SSD) - SAS interface, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Single-Level Cell (SLC), SmartDrive Carrier (SC) [1] | 653962-001 | Mandatory [5] |
| 22j | 400GB hot-plug Solid State Drive (SSD) - SAS interface, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Multi-Level Cell (MLC), SmartDrive Carrier (SC) [1] | 653963-001 | Mandatory [5] |
| 22k | 450GB hot-plug dual-port SAS hard disk drive - 10,000 RPM, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Enterprise, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 653956-001 | Mandatory [5] |
| 22l | 500GB hot-plug dual-port SAS hard disk drive - 7,200 RPM, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Midline, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 653953-001 | Mandatory [5] |
| 22m | 600GB hot-plug dual-port SAS hard disk drive - 10,000 RPM, 6Gb/sec transfer rate, 2.5-in small for | 653957-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | m factor (SFF), Enterprise , SmartDrive Carrier (SC) - Not for use in MSA prod ucts [1] | | |
| 22n | 800GB hot-plug Solid State Drive (SSD) - SAS i nterface, 6Gb/sec transfer rate, 2.5-in small form fa ctor (SFF), Multi-Level Ce ll (MLC), SmartDrive Carri er (SC) [1] | 653964-001 | Mandatory [5] |
| 22o | 900GB hot-plug dual-por t SAS hard disk drive - 1 0,000 RPM, 6Gb/sec tran sfer rate, 2.5-in small for m factor (SFF), Enterprise , SmartDrive Carrier (SC) - Not for use in MSA prod ucts [1] | 653971-001 | Mandatory [5] |
| 22p | 1TB hot-plug dual-port SAS hard disk drive - 7,2 00 RPM, 6Gb/sec transfer rate, 2.5-in small form fa ctor (SFF), Midline, Smar tDrive Carrier (SC) - Not for use in MSA products [1] | 653954-001 | Mandatory [5] |
| 22q | 1.2TB hot-plug dual-port SAS hard disk drive - 10 ,000 RPM, 6Gb/sec trans fer rate, 2.5-in small form factor (SFF), Enterprise, S martDrive Carrier (SC) [1] | 718292-001 | Mandatory [5] |
| | **SATA drives** | | |
| 22r | 80GB hot-plug Solid State Drive (SSD) - SATA i nterface, 6Gb/sec transfer rate, 2.5-in small form fa ctor (SFF), Value Enduran ce, Enterprise Boot, Smart Drive Carrier (SC) [1] | 734562-001 | Mandatory [5] |
| 22s | 100GB hot-plug Solid State Drive (SSD) - SATA i | 653965-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | nterface, 3Gb/sec transfer rate, 2.5-in small form fa ctor (SFF), Multi-Level Ce ll (MLC), SmartDrive Carri er (SC) [1] | | |
| 22t | 120GB hot-plug Solid State Drive (SSD) - SATA i nterface, 6Gb/sec transfer rate, 2.5-in small form fa ctor (SFF), Value Enduran ce, Enterprise Boot, Smart Drive Carrier (SC) [1] | 718136-001 | Mandatory [5] |
| 22u | 128GB SATA solid state d rive (SSD) - 6Gb/s transfe r rate, 2.5-in form factor, non hot plug (NHP) [1] | 747960-001 | Mandatory [5] |
| 22v | 200GB hot-plug Solid State Drive (SSD) - SATA i nterface, 3Gb/sec transfer rate, 2.5-in small form fa ctor (SFF), Multi-Level Ce ll (MLC), SmartDrive Carri er (SC) [1] | 653966-001 | Mandatory [5] |
| 22w | 240GB hot-plug Solid State Drive (SSD) - SATA i nterface, 6Gb/sec transfer rate, 2.5-in small form fa ctor (SFF), Value Enduran ce, Enterprise Value, Smar tDrive Carrier (SC) | 718137-001 | Mandatory [5] |
| 22x | 256GB SATA Solid State Drive (SSD) - 2.5-in form factor, 6.0Gb per second Transfer Rate (TR) [1] | 713480-001 | Mandatory [5] |
| 22y | 300GB hot-plug Solid State Drive (SSD) - SATA i nterface, 6Gb/sec transfer rate, 2.5-in small for facto r (SFF), Value Endurance, Enterprise Value, SmartDr ive Carrier (SC) [1] | 739954-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| 22z | 400GB hot-plug Solid State Drive (SSD) - SATA interface, 3Gb/sec transfer rate, 2.5-in small form factor (SFF), Multi-Level Cell (MLC), SmartDrive Carrier (SC) [1] | 653967-001 | Mandatory [5] |
| 22aa | 480GB SATA solid state drive (SSD) - 6Gb/s transfer rate, 2.5-in form factor, SmartDrive carrier (SC), value endurance (VE), Product Longevity program (PLP) [1] | 742518-001 | Mandatory [5] |
| 22bb | 480GB SATA solid state drive (SSD) - 6Gb/s transfer rate, 2.5-in form factor, SmartDrive carrier (SC), value endurance (VE) [1] | 741569-001 | Mandatory [5] |
| 22cc | 480GB SATA solid state drive (SSD) - 6Gb per second transfer rate, 2.5-in small form factor (SFF), SmartDrive carrier (SC), value endurance (VE) [1] | 735501-001 | Mandatory [5] |
| 22dd | 480GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Value Endurance, Enterprise Value, SmartDrive Carrier (SC) [1] | 718138-001 | Mandatory [5] |
| 22ee | 500GB hot-plug SATA hard disk drive - 7,200 RPM, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Midline, SmartDrive Carrier (SC) [1] | 656107-001 | Mandatory [5] |
| 22ff | 600GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), Value Enduran | 739959-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | ce, Enterprise Value, SmartDrive Carrier (SC) [1] | | |
| 22gg | 800GB hot-plug Solid State Drive (SSD) - SATA interface, 6Gb/sec transfer rate, 2.5-in small form factor (SFF), 6Gb per second transfer rate, Value Endurance, Enterprise Value, SmartDrive Carrier (SC) [1] | 718139-001 | Mandatory [5] |
| 22hh | 1TB hot-plug SATA hard disk drive - 7,200 RPM, 6 Gb/sec transfer rate, 2.5-in small form factor (SFF), Midline, SmartDrive Carrier (SC) - Not for use in MSA products [1] | 656108-001 | Mandatory [5] |
| 23 | 8-bay Small Form Factor (SFF) drive cage - For adding eight additional SFF drives (8+8-bay configuration) in place of the DVD drive module | 688038-001 | Optional [6] |
| 24 | Front panel cage assembly - Includes front panel grill, and USB connector board - For 8-bay small form factor (SFF) drive model servers - Mounts on the right side of the chassis | 687958-001 | Optional [6] |
| 25 | **Optical drives** (9.5 mm, 0.37 in) | | |
| 25a | Optical disk drive (ODD) module cage - Includes the front panel grill and optical drive bay - For 8-bay small form factor (SFF) drive model servers | 675601-001 | Mandatory [5] |
| 25b | Slimline 8x/24x DVD-ROM optical drive (Jack Black Color) - SATA interface, 12.7 mm slim form factor [1] | 652294-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| 25c | Slimline 8x DVD+R/RW o ptical drive (Jack Black C olor) - SATA interface, 12. 7 mm slim form factor [1] | 652295-001 | Mandatory [5] |
| 26 | **Power supplies** | | |
| 26a | 460 W AC Common Slot (CS) 'Gold' hot-plug powe r supply - Installs in the c omputer chassis as prima ry or redundant supply ( 92% efficiency) - Requires 100-240 V AC at 50/60 Hz | 511777-001 | Mandatory [5] |
| 26b | 460 W AC Common Slot (CS) 'Platinum Plus' hot-p lug power supply - Instal ls in computer chassis as primary or redundant sup ply (94% efficiency) - Req uires 100-240 V AC at 5 0/60 Hz [1] | 660184-001 | Mandatory [5] |
| 26c | 450 W AC Common Slot (CS) 'Platinum Plus' hot-p lug power supply - Does not support Power Disc overy Services (black plu g) - 94% efficiency, 100-2 40 V ac - Mixing of powe r supplies in the same se rver is not supported, mu st be the same spare part number | 742515-001 | |
| 26d | 750 W AC Common Slot (CS) 'Gold' hot-plug powe r supply - Installs in the c omputer chassis as prima ry or redundant supply ( 92% efficiency) - Requires 100-240 V AC at 50/60 Hz [1] | 511778-001 | Mandatory [5] |
| 26e | 750 W AC Common Slot (CS) 'Platinum Plus' hot-p lug power supply - Instal | 660183-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | ls in computer chassis as primary or redundant sup ply (94% efficiency) - Req uires 100-240 V AC at 5 0/60 Hz [1] | | |
| 26f | 750 W AC Common Slot (CS) 'Titanium' hot-plug power supply - Installs in the computer chassis as primary or redundant sup ply (96% efficiency) - Req uires 200-240 V AC at 5 0/60 Hz [1] | 700287-001 | Mandatory [5] |
| 26g | 750 W DC Common Slot (CS) 'Gold' hot-plug powe r supply - Installs in the c omputer chassis as prima ry or redundant supply (9 2% efficiency), [1] | 639173-001 | Mandatory [5] |
| 26h | 1200 W AC Common Slot (CS) 'Platinum Plus' hot-p lug power supply - Instal ls in computer chassis as primary or redundant sup ply (94% efficiency) - Req uires 100-240 V AC at 5 0/60 Hz [1] | 660185-001 | Mandatory [5] |
| 26i | 750watt 12 V, AC Comm on Slot (CS) 'Platinum Pl us' hot-plug power suppl y - Does not support Pow er Discovery Services (bla ck plug) - 94% efficiency, 100-240 V ac - Mixing o f power supplies in the sa me server is not supporte d, must be the same spa re part number | 742516-001 | |
| 27 | **DIMMs** | | |
| 27a | 2GB, 1600 MHz, PC3-12 800E-11, DDR3, single-ra nk x8, 1.50 V, unbuffered | 684033-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | with ECC dual in-line memory module (UDIMM) [1] | | |
| 27b | 2GB, 1333 MHz, PC3L-10600E-9, DDR3, single-rank x8, 1.35 V, unbuffered with ECC dual in-line memory module (UDIMM) [1] | 664694-001 | Mandatory [5] |
| 27c | 2GB, 1600 MHz, PC3L-12800E-11, DDR3, single-rank x8, 1.35 V, unbuffered with ECC dual in-line memory module (UDIMM) [1] | 715279-001 | Mandatory [5] |
| 27d | 4GB, 1600 MHz, PC3-12800R-11, DDR3, Single-Rank x4, 1.50 V, registered dual in-line memory module (DIMM) - Supported use with E5-2600 v2 series processors [1] | 664689-001 | Mandatory [5] |
| 27e | 4GB, 1333 MHz, PC3L-10600R-9, DDR3, single-rank x4, 1.35 V, registered dual in-line memory module (RDIMM) [1] | 664688-001 | Mandatory [5] |
| 27f | 4GB, 1600 MHz, PC3L-12800R-11, DDR3, single-rank x4, 1.35 V, registered dual in-line memory module (RDIMM) [1] | 715282-001 | Mandatory [5] |
| 27g | 4GB, 1600 MHz, PC3-12800E-11, DDR3, dual-rank x8, 1.50 V, unbuffered with ECC dual in-line memory module (UDIMM) [1] | 684034-001 | Mandatory [5] |
| 27h | 4GB, 1333 MHz, PC3L-10600E-9, DDR3, dual-rank x8, 1.35 V, unbuffered with ECC dual in-line memory module (UDIMM) [1] | 664695-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| 27i | 4GB, 1600 MHz, PC3L-12800E-11, DDR3, dual-rank x8, 1.35 V, unbuffered with ECC dual in-line memory module (UDIMM) [1] | 715280-001 | Mandatory [5] |
| 27j | 8GB, 1600 MHz, PC3-12800R-11, DDR3, single-rank x4, 1.50 V, registered dual in-line memory module (DIMM) [1] | 664691-001 | Mandatory [5] |
| 27k | 8GB dual in-line memory module (DIMM), PC3L-12800R-11, 1Rx4 [1] | 735302-001 | Mandatory [5] |
| 27l | 8GB, 1600 MHz, PC3-12800R-11, DDR3, dual-rank x4, 1.50 V, registered dual in-line memory module (DIMM) [1] | 698807-001 | Mandatory [5] |
| 27m | 8GB, 1333 MHz, PC3L-10600R-9, DDR3, dual-rank x4, 1.35 V, registered dual in-line memory module (RDIMM) [1] | 664690-001 | Mandatory [5] |
| 27n | 8GB, 1600 MHz, PC3L-12800R-11, DDR3, dual-rank x4, 1.35 V, registered dual in-line memory module (RDIMM) [1] | 715283-001 | Mandatory [5] |
| 27o | 8GB, 1600 MHz, PC3-12800E-11, DDR3, dual-rank x8, 1.50 V, unbuffered with ECC dual in-line memory module (UDIMM) [1] | 684035-001 | Mandatory [5] |
| 27p | 8GB, 1333 MHz, PC3L-10600E-9, DDR3, dual-rank x8, 1.35 V, unbuffered with ECC dual in-line memory module (UDIMM) [1] | 664696-001 | Mandatory [5] |
| 27q | 8GB, 1600 MHz, PC3L-12800E-11, DDR3, Dual-Rank x8, 1.35 V, Unbuffer | 715281-001 | Mandatory [5] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | ed with ECC Dual In-Line Memory Module (UDIMM ) [1] | | |
| 27r | 16GB, 1600 MHz, PC3-12800R-11, DDR3, dual-rank x4, 1.50 V, registered dual in-line memory module (DIMM) [1] | 684031-001 | Mandatory [5] |
| 27s | 16GB, 1333 MHz, PC3L-10600R-9, DDR3, dual-rank x4, 1.35 V, registered dual in-line memory module (RDIMM) [1] | 664692-001 | Mandatory [5] |
| 27t | 16GB dual in-line memory module (DIMM), PC3L-12800R-11, 1Gx4 [1] | 715284-001 | Mandatory [5] |
| 27u | 32GB, 1333 MHz, PC3L-10600L-9, DDR3, Quad-Rank x4, 1.35 V, Load Reduced Dual In-Line Memory Module (LRDIMM) [1] | 664693-001 | Mandatory [5] |
| 28 | **Processors** (include alcohol pad and thermal compound) [4] | | |
| | **Intel Xeon Processors E5-2400 processors** | | |
| 28a | Intel Xeon Quad-Core processor E5-2403 - 1.8 GHz (Sandy Bridge-EN, 10 MB Level-3 cache, 80 W thermal design power (TDP), FCLGA 1356 socket) | 676949-001 | Optional [6] |
| 28b | Intel Xeon Eight-Core low-power processor E5-2450L - 1.8 GHz (Sandy Bridge-EN, 20MB Level-3 cache, 70 W thermal design power (TDP), socket FCLGA 1356) [1] | 676951-001 | Optional [6] |
| 28c | Intel Xeon Six-Core processor E5-2420 - 1.9 GHz (Sandy Bridge-EN, 15MB Level-3 cache, 95 W ther | 676947-001 | Optional [6] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | mal design power (TDP), FCLGA 1356 socket) [1] | | |
| 28d | Intel Xeon Six-Core low-power processor E5-2430L - 2.0 GHz (Sandy Bridge-EN, 15MB Level-3 cache, 60 W thermal design power (TDP), socket FCLGA 1356) [1] | 676950-001 | Optional [6] |
| 28e | Intel Xeon Eight-Core processor E5-2450 - 2.1 GHz (Sandy Bridge-EN, 20 MB Level-3 cache, 95 W thermal design power (TDP), socket FCLGA 1356) [1] | 676944-001 | Optional [6] |
| 28f | Intel Xeon Quad-Core processor E5-2407 - 2.2 GHz (Sandy Bridge-EN, 10 MB Level-3 cache, 80 W thermal design power (TDP), FCLGA 1356 socket) [1] | 676948-001 | Optional [6] |
| 28g | Intel Xeon Six-Core processor E5-2430 - 2.2 GHz (Sandy Bridge-EN, 15MB Level-3 cache, 95 W thermal design power (TDP), FCLGA 1356 socket) - Includes alcohol pad and thermal compound [1] | 676946-001 | Optional [6] |
| 28h | Intel Xeon Eight-Core processor E5-2470 - 2.3 GHz (Sandy Bridge-EN, 20 MB Level-3 cache, 95 W thermal design power (TDP), socket FCLGA 1356) - Includes alcohol pad and thermal compound [1] | 676943-001 | Optional [6] |
| 28i | Intel Xeon Six-Core processor E5-2440 - 2.4 GHz (Sandy Bridge-EN, 15MB Level-3 cache, 95 W thermal design power (TDP), FCLGA 1356 socket) - Inc | 676945-001 | Optional [6] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | ludes alcohol pad and thermal compound [1] | | |
| | **Intel Xeon Processors E5-2400 v2 processors** | | |
| 28j | Intel Xeon Processor E5-2450L v2 processor - 1.70 GHz, 25MB smart cache, FCLGA1356 socket, Ivy Bridge EN, with jacket [1] | 729108-001 | Optional [6] |
| 28k | Intel Xeon Quad-Core processor E5-2403 v2 - 1.8 GHz (Ivy Bridge-EN, 10MB Level-3 cache, 80 W thermal design power (TDP), FCLGA 1356 socket) [1] | 729109-001 | Optional [6] |
| 28l | Intel Xeon Eight-Core processor E5-2440 v2 - 1.9 GHz (Ivy Bridge-EN, 20MB Level-3 cache, 95 W thermal design power (TDP), FCLGA 1356 socket) [1] | 729113-001 | Optional [6] |
| 28m | Intel Xeon Six-Core processor E5-2420 v2 - 2.2 GHz (Ivy Bridge-EN, 15MB Level-3 cache, 80 W thermal design power (TDP), FCLGA 1356 socket) [1] | 729111-001 | Optional [6] |
| 28n | Intel Xeon Quad-Core processor E5-2407 v2 - 2.4 GHz (Ivy Bridge-EN, 10MB Level-3 cache, 80 W thermal design power (TDP), FCLGA 1356 socket) [1] | 729110-001 | Optional [6] |
| 28o | Intel Xeon Processor E5-2430L v2 processor - 2.40 GHz, 15MB smart cache, FCLGA1356 socket, Ivy Bridge EN, with jacket [1] | 729107-001 | Optional [6] |
| 28p | Intel Xeon Processor E5-2470 v2 processor - 2.40 GHz, 25MB smart cache, | 729115-001 | Optional [6] |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| | FCLGA1356 socket, Ivy Bridge EN, with jacket [1] | | |
| 28q | Intel Xeon Six-Core processor E5-2430 v2 - 2.5 GHz (Ivy Bridge-EN, 15MB Level-3 cache, 80 W thermal design power (TDP), FCLGA 1356 socket) [1] | 729112-001 | Optional [6] |
| 28r | Intel Xeon Eight-Core processor E5-2450 v2 - 2.5 GHz (Ivy Bridge-EN, 20MB Level-3 cache, 95 W thermal design power (TDP), FCLGA 1356 socket) [1] | 729114-001 | Optional [6] |
| 29 | **Mini-SAS Y-cable kit** | 754375-001 | Mandatory [5] |
| | 540-mm Mini-SAS Y-cable [1] | | |
| | 690-mm Mini-SAS Y-cable [1] | | |
| | 780-mm Mini-SAS Y-cable [1] | | |
| | 850-mm Mini-SAS Y-cable (with cable clip) [1,3] | | |
| 30 | **Miscellaneous cable kit** | 687954-001 | Mandatory [5] |
| | 500.4-mm (19.7 in) Mini-SAS cable [1] | | |
| | 698.5-mm (27.5 in) Mini-SAS cable [1] | | |
| | Two-port SATA cable [1] | | |
| 31 | **Power cable kit** | 687955-001 | Mandatory [5] |
| | 8-bay SFF drive cage power cable [1] | | |
| | 8-bay LFF drive cage power cable [1] | | |
| | 12-bay LFF and 25-bay SFF drive cage power cables [1] | | |
| | Fan board power cable [1] | | |
| | GPU power cable [1] | | |

| Item | Description | Spare PartNumber | Customer SelfRepair |
|---|---|---|---|
| 32 | **Rear drive cage cable kit** | 687956-001 | Mandatory [5] |
| | SATA cables [1] | | |
| | Sideband signal cable [1] | | |
| 33 | Trusted Platform Module [1] | 505836-001 | No [7] |

**NOTE**

**1.** Not shown

**2.** The HP Dynamic Smart Array B320i controller embedded in this riser board option requi res an HP Smart Array SASLicense Key to support SAS drives.

**Click here to view the license key available.**

**3.** This Mini-SAS Y-cable is not for use in this server.

**4.** All processors in this HP ProLiant server must have the same cache size, speed, number of cores, and rated maximumpower consumption.

**5.** Mandatory - Parts for which customer self repair is mandatory. If the user requests HP to replace these parts, then charged for the travel and labor costs of this service.

**6.** Optional - Parts for which customer self repair is optional. These parts are also designed for customer self repair. If,however, it is required that HP replace them for the user, there m ay or may not be additional charges, depending on the typeof warranty service designated for the product.

**7.** No — Some HP parts are not designed for customer self repair. In order to satisfy the cu stomer warranty, HP requires thatan authorized service provider replace the part. These par ts are identified as "No" in the Illustrated Parts Catalog.

## OS Compatibility

| Feature | Description |
|---|---|
| **Operating System (OS) and virtualization softwa re support for ProLiant servers** [1] | • Microsoft Windows Server<br>◦ WS2012<br>◦ WS2012 R2<br>◦ WS2016 |

| Feature | Description |
| --- | --- |
| | • Red Hat Enterprise Linux (RHEL)<br>• SUSE Linux Enterprise Server (SLES)<br>• Oracle Solaris 10<br>**Please access the link for more information**<br>• VMware |



**NOTE**

1: **Click here to visit the HPE Servers Support & Certification Matrices.**

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## Useful Links

| Descriptions | Direct Links |
| --- | --- |
| Alerts | **Click here to view "Alerts, Security Bulletin, Advisory, Notice and other documents of HPE ProLiant DL380e Gen8 Server".** |
| Drivers and Softwares | **Click here to view "Drivers and Softwares, Firmware, Driver, BIOS, Application, Utility, Operating System, Software document of HPE ProLiant DL 380e Gen8 Server".** |
| Knowledge Articles | **Click here to view "Knowledge Articles, Troubleshooting, FAQ, How To, Informational document of HPE ProLiant DL380e Gen8 Server".** |
| Manuals | **Click here to view "Manuals, Guides, Release Notes, Troubleshooting articles and other related document of HPE ProLiant DL380e Gen8 Server".** |
| Videos | **Click here to access "Videos of Remove/Replace, Setup/Installation, Troubleshooting, Managemen** |

| Descriptions | Direct Links |
| --- | --- |
| | t/Operations of HPE ProLiant DL380e Gen8 Server". |