

Overview

HPE ProLiant DL380 Generation9 (Gen9)

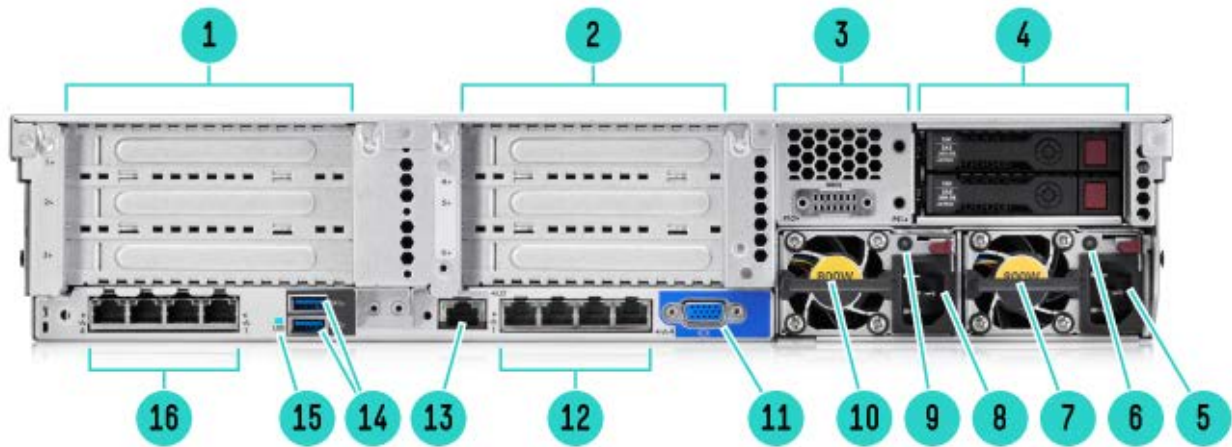
The HPE ProLiant DL380 Gen9 Server delivers the best performance and expandability in the Hewlett Packard Enterprise 2P rack portfolio. Reliability, serviceability and near continuous availability, backed by a comprehensive warranty, make it ideal for any environment. Deploy the data center standard.



Front View - 8SFF Chassis with Optional Universal Media Bay shown

1. Quick removal access panel
2. Universal Media bay. 2 USB 2.0 and VGA standard (8SFF bay optional)
3. Optional Optical drive. Requires Universal Media bay
4. Optional 2 SFF HDD, blank shown. Requires Universal Media bay
5. Drive Bay 2. Blank shown, 8SFF or 6NVMe optional
6. 8 SFF Drive Cage Bay
7. Power On/Standby button and system power LED button
8. Health LED
9. NIC status
10. UID button
11. USB 3.0
12. Serial label pull tag
13. Bay 3
14. Bay 2
15. Bay 1

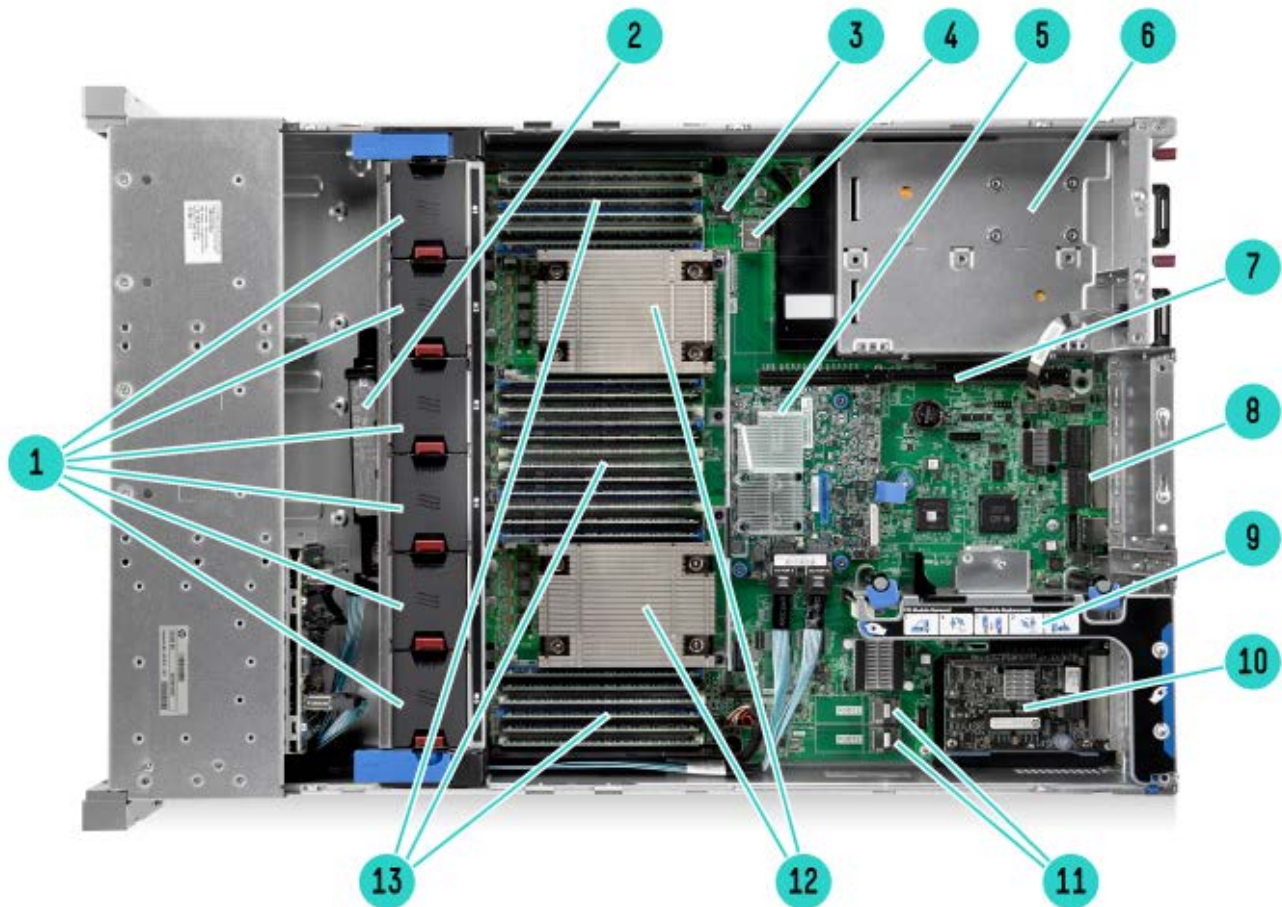
Overview



Rear View

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. PCI Slots (Slots 1-3 top to bottom, riser shipped standard) 3. Optional serial port 5. Power supply Power connection 7. HPE Flexible Slot Power Supply bay 2 (800w shown) 9. Power supply Power LED 11. VGA connector 13. Dedicated iLO connector 15. Unit ID LED | <ol style="list-style-type: none"> 2. PCI Slots (Slots 4-6 top to bottom, requires second riser card, and second processor) 4. Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end) 6. Power supply Power LED 8. Power supply Power connection 10. HPE Flexible Slot Power Supply bay 1 (800w shown) NOTE: Optional Battery Back up option. 12. Embedded 4x1GbE Network Adapter 14. USB 3.0 connectors (2) 16. Optional FlexibleLOM ports (Shown: 4x1GbE) |
|---|---|

Overview



Internal View

- | | |
|--|---|
| 1. Fan cage shown with 6 standard Hot-plug fans (High Performance fans optional) | 2. Optional HPE Smart Storage Battery |
| 3. MicroSD card slot NOTE: Optional Dual MicroSD. | 4. Internal USB 3.0 connector (2) |
| 5. Optional HPE Flexible Smart Array or Smart HBA (H240ar shown) | 6. (Under) Hot Plug redundant HPE Flexible Slot Power supplies NOTE: Optional Micro UPS Battery Back up option. |
| 7. Connection for second (optional) riser (Required second CPU) | 8. Embedded 4x1Gbe NIC |
| 9. Primary PCIe riser, standard (Optional double wide GPU riser) | 10. Optional FlexibleLOM slot |
| 11. X4 SATA ports (1 and 2) | 12. 2 Processors, heatsink showing, with HPE Smart Socket Guide |
| 13. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor) | |

What's New

- ClearOS, an easy to use OS with an application marketplace, allows you to build a fully functional server that is just right for you at no upfront cost. To learn more on what you can do, please visit <http://www.hpe.com/servers/clearos>.
- New NVIDIA GPUs

Standard Features

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

Processor

Up to two of the following depending on model

| Model | CPU frequency | Cores | L3 Cache | Power | QPI | DDR4 Hz |
|------------|---------------|-------|----------|-------|---------|---------|
| E5-2699v3 | 2.3GHz | 18 | 45MB | 145W | 9.6GT/s | 2133 |
| E5-2698v3 | 2.3GHz | 16 | 40MB | 135W | 9.6GT/s | 2133 |
| E5-2697v3 | 2.6GHz | 14 | 35MB | 145W | 9.6GT/s | 2133 |
| E5-2695v3 | 2.3GHz | 14 | 35MB | 120W | 9.6GT/s | 2133 |
| E5-2690v3 | 2.6GHz | 12 | 30MB | 135W | 9.6GT/s | 2133 |
| E5-2687Wv3 | 3.1GHz | 10 | 25MB | 160W | 9.6GT/s | 2133 |
| E5-2683v3 | 2.0GHz | 14 | 35MB | 120W | 9.6GT/s | 2133 |
| E5-2680v3 | 2.5GHz | 12 | 30MB | 120W | 9.6GT/s | 2133 |
| E5-2670v3 | 2.3GHz | 12 | 30MB | 120W | 9.6GT/s | 2133 |
| E5-2667v3 | 3.2GHz | 8 | 20MB | 135W | 9.6GT/s | 2133 |
| E5-2660v3 | 2.6GHz | 10 | 25MB | 105W | 9.6GT/s | 2133 |
| E5-2650v3 | 2.3GHz | 10 | 25MB | 105W | 9.6GT/s | 2133 |
| E5-2650Lv3 | 1.8GHz | 12 | 30MB | 65W | 9.6GT/s | 2133 |
| E5-2643v3 | 3.4GHz | 6 | 20MB | 135W | 9.6GT/s | 2133 |
| E5-2640v3 | 2.6GHz | 8 | 20MB | 90W | 8.0GT/s | 1866 |
| E5-2637v3 | 3.5GHz | 4 | 15MB | 135W | 9.6GT/s | 2133 |
| E5-2630v3 | 2.4GHz | 8 | 20MB | 85W | 8.0GT/s | 1866 |
| E5-2630Lv3 | 1.8GHz | 8 | 20MB | 55W | 8.0GT/s | 1866 |
| E5-2623v3 | 3.0GHz | 4 | 10MB | 105W | 8.0GT/s | 1866 |
| E5-2620v3 | 2.4GHz | 6 | 15MB | 85W | 8.0GT/s | 1866 |
| E5-2609v3 | 1.9GHz | 6 | 15MB | 85W | 6.4GT/s | 1600 |
| E5-2603v3 | 1.6GHz | 6 | 15MB | 85W | 6.4GT/s | 1600 |
| E5-2699v4 | 2.2GHz | 22 | 55MB | 145W | 9.6GT/s | 2400 |
| E5-2698v4 | 2.2GHz | 20 | 50MB | 135W | 9.6GT/s | 2400 |
| E5-2697v4 | 2.3GHz | 18 | 45MB | 145W | 9.6GT/s | 2400 |
| E5-2697Av4 | 2.6GHz | 16 | 40MB | 145W | 9.6GT/s | 2400 |
| E5-2695v4 | 2.1GHz | 18 | 45MB | 120W | 9.6GT/s | 2400 |
| E5-2690v4 | 2.6GHz | 14 | 35MB | 135W | 9.6GT/s | 2400 |
| E5-2687Wv4 | 3.0GHz | 12 | 30MB | 160W | 9.6GT/s | 2400 |
| E5-2683v4 | 2.1GHz | 16 | 40MB | 120W | 9.6GT/s | 2400 |
| E5-2680v4 | 2.4GHz | 14 | 35MB | 120W | 9.6GT/s | 2400 |
| E5-2667v4 | 3.2GHz | 8 | 25MB | 135W | 9.6GT/s | 2400 |
| E5-2660v4 | 2.0GHz | 14 | 35MB | 105W | 9.6GT/s | 2400 |
| E5-2650v4 | 2.2GHz | 12 | 30MB | 105W | 9.6GT/s | 2400 |
| E5-2650Lv4 | 1.7GHz | 14 | 35MB | 65W | 9.6GT/s | 2400 |
| E5-2643v4 | 3.4GHz | 6 | 20MB | 135W | 9.6GT/s | 2400 |
| E5-2640v4 | 2.4GHz | 10 | 25MB | 90W | 8.0GT/s | 2133 |
| E5-2637v4 | 3.5GHz | 4 | 15MB | 135W | 9.6GT/s | 2400 |
| E5-2630v4 | 2.2GHz | 10 | 25MB | 85W | 8.0GT/s | 2133 |
| E5-2630Lv4 | 1.8GHz | 10 | 25MB | 55W | 8.0GT/s | 2133 |
| E5-2623v4 | 2.6GHz | 4 | 10MB | 85W | 8.0GT/s | 2133 |

Standard Features

| | | | | | | |
|------------|--------|----|------|------|---------|------|
| E5-2620v4 | 2.1GHz | 8 | 20MB | 85W | 8.0GT/s | 2133 |
| E5-2609v4 | 1.7GHz | 8 | 20MB | 85W | 6.4GT/s | 1866 |
| E5-2603v4 | 1.7GHz | 6 | 15MB | 85W | 6.4GT/s | 1866 |
| E5-2699Av4 | 2.4GHz | 22 | 55MB | 145W | 9.6GT/s | 2400 |

NOTE: All processors above 120W use a high efficiency Heatsink. Doublewide PCIe cards are only supported with this Heatsink. For processors with a standard Heatsink that require double wide PCIe cards, the Graphics Enablement kit option is also required (719082-B21).

NOTE: Mixing of E5-2600v3 and E5-2600v4 processors is not supported.

NOTE: Field upgrade from E5-2600v3 to E5-2600v4 is supported.

NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3.

Chipset

Intel® C610 Series Chipset

Intel® E5-2600v3 Processor Family

Intel® E5-2600v4 Processor Family

NOTE: For more information regarding Intel® chipsets, please see the following URL:

<http://www.intel.com/products/server/chipsets/>

On System

HPE iLO (Firmware HPE iLO4 2.0) 4GB NAND

Management Chipset

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

Memory

One of the following depending on model

Type:

HPE SmartMemory

DDR4 Registered (RDIMM), Load Reduced (LRDIMM) or Persistent Memory (NVDIMM)

DIMM Slots Available 24 (12 DIMM slots per processor, 4 channels per processor, 3 DIMMs per channel)

Maximum Capacity (LRDIMM) 3TB (24 x 128GB LRDIMM @2400MHz)*

Maximum Capacity (RDIMM) 768GB (24 x 32GB RDIMM @2400MHz)

Maximum Capacity (NVDIMM) 128GB (16 x 8GB NVDIMM)*

NVDIMM support only with the E5-2600v4 processors, and RDIMMs only

- Note mixing of 2133 and 2400MHz memory is not supported
- Note mixing of RDIMM and LRDIMM memory is not supported
- Note the 128GB LRDIMM may not be mixed with other DIMM capacities/types

Memory Protection

Advanced ECC

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

Online Spare

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

Expansion Slots

Primary Riser (Standard)

Expansion Slots #

Technology

Bus Width

Connector Width

Bus Number

Form Factor

Notes

Standard Features

| | | | | | | |
|---|----------|----|-----|----|-------------------------------|--------|
| 1 | PCIe 3.0 | X8 | X16 | 7 | Full-height, half-length slot | Proc 1 |
| 2 | PCIe 3.0 | X8 | X16 | 10 | Full-height, half-length slot | Proc 1 |
| 3 | PCIe 3.0 | X8 | X8 | 13 | Half length/full height | Proc 1 |

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

NOTE: All slots support PCIe cards to 150W or more depending on card, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

Slot 2 PCIe Riser
(Optional 3-slot)
719073-B21

| Expansion Slots # | Technology | Bus Width | Connector Width | Bus Number | Form Factor | Notes |
|-------------------|------------|-----------|-----------------|------------|-------------------------------|--------|
| 4 | PCIe 3.0 | X16 | X16 | 16 | Full-height, full-length slot | Proc 2 |
| 5 | PCIe 3.0 | X16 | X16 | 20 | Full-height, full-length slot | Proc 2 |
| 6 | PCIe 3.0 | X8 | X8 | 23 | Full-height, half-length slot | Proc 2 |

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

NOTE: When populating the second optional riser slot, the second processor must be installed.

NOTE: All slots support PCIe cards to 150W or more depending on card but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

Slot 1 PCIe Riser
(Optional 2-slot)
719076-B21

| Expansion Slots # | Technology | Bus Width | Connector Width | Bus Number | Form Factor | Notes |
|-------------------|------------|-----------|-----------------|------------|-------------------------------|--------|
| 2 | PCIe 3.0 | X16 | X16 | 0x05 | Full-height, full-length slot | Proc 1 |
| 3 | PCIe 3.0 | X8 | X8 | 0x08 | Full-height, half-length slot | Proc 1 |

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

NOTE: This will replace the standard primary riser and supports double wide cards.

NOTE: All slots support PCIe cards to 150W or more depending on card, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

Standard Features

One of the following depending on model

NOTE: The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.

NOTE: The B140i defaults to AHCI off the chipset. Smart array needs to be enables on the SATA only models if required.

NOTE: The B140i will not operate in Legacy mode.

| | |
|--------------------|---|
| Base Models | HPE Dynamic Smart Array B140i Controller |
| | HPE Flexible Smart Array P440ar/2G FIO Controller |
| | HPE Flexible Smart Array P840/4G FIO Controller |
| | HPE Smart Array P840ar/2G Controller |
| Performance Models | HPE Dynamic Smart Array B140i Controller |
| | HPE Flexible Smart Array P440ar/2GB |

Internal Storage Devices

One of the following depending on model

| | |
|-----------------|--|
| Optical Drive | Ships standard in Performance Models Optional: DVD-ROM, DVD-RW |
| Hard Drives | None ship standard |
| Hard Drive Bays | 8 SFF with optional Universal Media Bay, 8 SFF bay or 6 NVMe drive options 24 SFF plus optional 2 SFF drives rear 12 LFF plus optional 3 LFF drives rear NOTE: The 3 LFF rear drives will consume space for the secondary riser. NOTE: The 12 LFF chassis also supports 2 SFF rear which allows for the second riser. NOTE: The 6 NVMe drive option can only be leveraged in the SFF chassis and replaces Bay 2. 4 LFF drive bays total NOTE: The Universal Media Bay (724865-B21) not available with the LFF chassis or the 24SFF front end, and can only be populated in Bay1. NOTE: The 8SFF can be upgraded with a drive cage to 16 or 24 SFF with field upgrades. For optimal upgrade Bay2 should be populated second, with Bay 3 the last to be populated for a field upgrade to 24 SFF. NOTE: The 4LFF chassis cannot be upgraded to 12LFF in the field. NOTE: All Pre-configured Chassis come with an embedded 10-Port SATA controller. Optional HPE Flexible Smart Array and Smart SAS HBA Controllers can be added. |

Maximum Internal Storage

| | CAPACITY | CONFIGURATION |
|----------------------------|----------------------|---|
| Hot Plug SFF SAS | 52.0TB | 24+2 x 2TB (with optional rear SFF drive cage) |
| Hot Plug SFF SATA | 52.0TB | 24+2 x 2TB (with optional SFF drive cage) |
| Hot Plug LFF SAS | 150.0TB | 12+3 x 10TB (with optional rear LFF drive cage) |
| Hot Plug LFF SATA | 150.0TB | 12+3 x 10TB (with optional rear LFF drive cage) |
| Hot Plug SFF SAS SSD | 99.84TB | 24+2 x 3.84TB (with optional rear SFF drive cage) |
| Hot Plug LFF SATA SSD | 57.6B | 12+3 x 3.84TB (with optional rear LFF drive cage) |
| Hot Plug SFF NVMe PCIe SSD | 12TB NVMe + 36TB SFF | 6x2TB NVMe plus 36TB with 18 SFF (Bay 1, bay 3 and optional rear drive support) |

Standard Features

Power Supply

HPE 500W Flex Slot Platinum Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HPE 800W Flex Slot Platinum Hot Plug Power Supply

NOTE: Available in 94% and 96% efficiency.

NOTE: Also available in -48VDC and 227VAC/380VDC power inputs.

HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen9 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (AOK02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the [ProLiant Power Cables](#) web page.

To review the power requirements for your selected system, please use the HPE Power Advisor Tool located at <http://www.hpe.com/info/hppoweradvisor>.

Power specifications and technical content for all HPE Server power supplies can be found at <http://www.hp.com/go/proliant/powersupply>.

System Fans

One of the following depending on model

2P model

Non-redundant

Redundant

6 fans

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

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

NOTE: High Performance Fan Kit is available to meet ambient temperature environments.

NOTE: High Performance Fan Kit is required for Passive GPU support.

NOTE: The 8SFF Bay1 kit (719067-B21) will ship with 6 High efficiency fans.

Interfaces

Serial

Optional

Video

2 (1 front, optional via Universal Media Bay, 724865-B21), 1 back not active simultaneously

FlexibleLOM Network Ports

4 x 1Gb ports shipping standard with optional FlexibleLOM

HPE iLO Remote

1 Gb Dedicated

Management Network Port

Micro SD Slot

1 Micro SD

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

USB 3.0

Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay

SID (Systems Insight Display) Optional

NOTE: Not shipping as standard. Available as a CTO option or as a field upgrade (768900-B21).

Standard Features

Operating Systems and Virtualization Software Support for ProLiant Servers

- [Microsoft Windows Server](#)
- [Canonical Ubuntu](#)
- [Red Hat Enterprise Linux \(RHEL\)](#)
- [SUSE Linux Enterprise Server \(SLES\)](#)
- [Oracle Solaris](#)
- [VMware](#)
- [Citrix XenServer](#)
- [ClearOS](#)

NOTE: ClearOS allows you to build a fully functional server that is just right for you at no upfront cost. It is available via CTO preload, Intelligent Provisioning or via download. For more information on ClearOS, please visit <http://www.hpe.com/servers/clearos>

NOTE: For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: <http://www.hp.com/go/ossupport> and our driver download page: <http://h20566.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=7271242>

Upgradeability

Upgradeable to 2 processors (36 Cores)

NOTE: Processor upgrade available from Intel® Xeon® Processors E5-2600v3. Please contact Hewlett Packard Enterprise Technology Sales (<http://www.hpe.com/support>), your local Hewlett Packard Enterprise Re-seller.

Up to 24 DIMM slots available for higher Memory capacity

FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options

HPE Flexible Smart Array or Smart HBA Controllers

Embedded 10-Port SATA, B140i as standard

Optional 3 slot riser (x16, x16, x8), or 2 slot primary riser (x16, x8)

NOTE: To take advantage of the additional 3 PCI slot upgrade, the second processor must be installed.

Redundant Power Supply

Optical Drive supported via Universal Media Bay

NOTE: The Universal Media bay provides front VGA and 2xUSB 2.0, plus ability to add 2SFF and Optical.

NOTE: Universal Media bay is only available with 8 or 8+8SFF chassis & can be populated in Bay1 only.

HPE Legacy Mode (FIO only, 758959-B22)

NOTE: UEFI is the default mode for CTO and BTO SKUs. Can change default to legacy via CTO.

Industry Standard Compliance

ACPI 2.0b Compliant

PCIe 3.0 Compliant

PXE Support

WOL Support

Microsoft® Logo certifications

USB 3.0 Support

USB 2.0 Support

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

Energy Star

ASHRAE A3/A4

Standard Features

NOTE: The DL380 Gen9 is now one of the first HPE ProLiant Gen9 Servers with Extended Ambient Support up to 45 C for data center infrastructures designed for better energy efficiency such as but not limited to fresh air cooling.

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

UEFI (Unified Extensible Firmware Interface Forum)

NOTE: UEFI is the default for the DL380 Gen9. Legacy model can be selected in the field or as a CTO option (758959-B22).

Graphics

Integrated Matrox G200eH2 video standard with 16MB of Video RAM

- 1280 x 1024 (32 bpp)
- 1920 x 1200 (16 bpp)

HPE iLO 4 On System Management Memory

- 16 MB Flash
- 256 MB DDR3 with ECC (112 MB after ECC and video)

HPE Server UEFI/Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot Mode.

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

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

- Secure Boot
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using RESTful API for iLO 4
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM
- Network Stack configurations

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

NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen9 Server.

Form Factor

2U Rack form factor

One of the following depending on model

8 SFF & 24SFF Drive Bay Version:

3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm)

4 LFF & 12LFF Drive Bay Version:

Standard Features

3.44 x 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm)

NOTE: Dimensions without bezel.

| | | |
|----------------------------|--|--|
| Embedded Management | HPE Integrated Lights-Out (HPE iLO) | Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at http://www.hpe.com/info/ilo . |
| | UEFI | Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at http://www.hpe.com/servers/uefi . |
| | RESTful API | RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi . |
| | Intelligent Provisioning | Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning . |
| | Embedded Remote Support | The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore . |

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| Server utilities | Smart Update | Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at http://www.hpe.com/servers/smartupdatemanager . |
| | HPE Systems Insight Manager (HPE SIM) | HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at http://www.hpe.com/servers/hpsim . |
| | Scripting Tool Kit and Windows PowerShell | Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at http://www.hpe.com/servers/proliant/stk or http://www.hpe.com/servers/powershell . |
| | RESTful Interface Tool | RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at http://www.hpe.com/info/resttool . |
| | HPE iLO Mobile Application | Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: http://www.hpe.com/info/ilo/mobileapp . |
| | HPE Insight Online | HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support |

Standard Features

information from anywhere, anytime. Learn more at
<http://www.hpe.com/info/insightonline/explore>

Security

Power-on password
Serial interface control
Administrator's password
UEFI
iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption
Integrated Lights-Out can be disabled via a Global Setting
iLO Advanced supports directory services integration
TPM 1.2

Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: <http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/>.

Optional Features

| | | |
|--------------------------------------|--|---|
| Embedded Management | iLO Advanced | HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at http://www.hpe.com/servers/iloadvanced . |
| Server Management | HPE Insight Control | HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hpe.com/info/insightcontrol . |
| | HPE Insight Cluster Management Utility (CMU) | HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at http://www.hpe.com/info/cmu . |
| Rack and Power Infrastructure | HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HPE Rack and Power infrastructure solutions – rack infrastructure, power protection and management, performance optimized data centers (PODs) – are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at HPE Rack and Power Infrastructure . | |
| High Performance Clusters | HPE Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters . NOTE: High Performance Computing (HPC) interconnect technologies are available for this server as part of the HPE Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by Hewlett Packard Enterprise when integrated within a Hewlett Packard Enterprise cluster. Flexible, validated solutions can be defined with the help of configuration tools. http://www.hp.com/techservers/clusters/ucp/index.html . | |
| HPC Interconnects | NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HPE Cluster Platform product portfolio. These high-speed interconnects are fully supported by Hewlett Packard Enterprise when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPEC Clusters with InfiniBand Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html . | |
| Storage Software | Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than Hewlett Packard Enterprise storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities. Storage software that gets the job done: | |

Optional Features

- **Data Protection and Recovery Software**
Whether you're a large enterprise or a smaller business, Hewlett Packard Enterprise data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.
- **Data Archive and Migration Software**
Hewlett Packard Enterprise storage software enables you to comply with data retention and retrieval requirements, improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.
- **Storage Resource Management Software (SRM)**
Hewlett Packard Enterprise storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments.
- **Data Replication Software**
Hewlett Packard Enterprise offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting.
- **Storage Device Management Software**
Maximize your investment in Hewlett Packard Enterprise storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.
- **HPE StoreVirtual VSA**
Enable highly available and clustered storage in your HPE ProLiant servers with virtualized storage: Add StoreVirtual VSA to multiple servers, manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. To simplify deployment, HPE offers StoreVirtual Ready Nodes, pre-defined reference configurations for converged vSphere and Hyper-V virtualization solutions. You also have the option to install free 1TB-capacity StoreVirtual VSA software during server setup within Intelligent Provisioning. HPE ProLiant Gen9 servers include a 3-year limited license for this HPE software-defined storage at no extra cost. More information, instructional videos, and free management software are available at <http://www.hpe.com/storage/storevirtual>.

NOTE: For more information about Storage Software including QuickSpecs, please see: <http://www.hp.com/go/storage/software>.

ClearOS

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

NOTE: For more information on ClearOS, please visit <http://www.hpe.com/servers/clearos>.

One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. <http://ocs.ext.hpe.com/>.

Service and Support

HPE Support Services

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support for need for your IT and business.

Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support.

1 - IDC 2 - HPE CSC reports 2014 - 2015

Recommended Support

Standard: HPE Proactive Care* with 24x7 coverage, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

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

Optimized HPE Proactive Care* with 6 hour call-to-repair commitment, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years' proactive reporting and advice with our highest level of hardware support – Hewlett Packard Enterprise 24x7, six hour hardware call-to-repair. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

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

Parts and Materials

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

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

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

Related Services

HPE Server Hardware Installation

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

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf>

HPE Installation and Startup Service

Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems,

Service and Support

C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux).

HPE Technology Services Support Credits

Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.

HPE Education Services

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

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

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers.

Learn more <http://www.hpe.com/support/hpesc>

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

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

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

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

Pre-configured Models

| | Entry Models | | | Base Models | | | | |
|-----------------------------|---|--|--|--|--|---|--|---|
| [SKU Number] | 766342-B21 | 752686-B21 | 826681-B21 | 752688-B21 | 752687-B21 | 826682-B21 | 826683-B21 | 848774-B21 |
| Model Name | HPE ProLiant DL380 Gen9 E5-2609v3 1P 8GB-R B140i 4LFF SATA 500W PS Entry Server | HPE ProLiant DL380 Gen9 E5-2609v3 1P 8GB-R B140i 8SFF 500W PS Entry Server | HPE ProLiant DL380 Gen9 E5-2609v4 1P 8GB-R B140i 8SFF 500W PS Entry SATA Server | HPE ProLiant DL380 Gen9 E5-2620v3 2.4GHz 6-core 1P 16GB-R P840/4GB 12LFF 2x800W PS Base Server | HPE ProLiant DL380 Gen9 E5-2620v3 1P 16GB-R P440ar 8SFF 500W PS Base Server | HPE ProLiant DL380 Gen9 E5-2620v4 1P 16GB-R P440ar 8SFF 500W PS Base Server | HPE ProLiant DL380 Gen9 E5-2620v4 1P 16GB-R P440ar 12LFF 2x800W PS Base Server | HPE ProLiant DL380 Gen9 E5-2630v4 1P 16GB-R P440ar 8SFF 500W PS Base Server |
| Processor | Intel® Xeon® E5-2609v3 | | Intel® Xeon® E5-2609v4 | Intel® Xeon® E5-2620v3 | | Intel® Xeon® E5-2620v4 | | Intel® Xeon® E5-2630v4 |
| Number of Processors | One | | | | | | | |
| Memory | 8GB (1x8GB Registered DIMMs, 2133 MHz) NOTE: With the E5-2609v3 this memory DIMM will only operate at 1600MHz. | 8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: With the E5-2609v4 this memory DIMM will only operate at 1866MHz. | 16GB (1x16GB Registered DIMMs, 2133 MHz) NOTE: With the E5-2620v3 this memory DIMM will only operate at 1866MHz. | 16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: With the E5-2620v4 this memory DIMM will only operate at 2133MHz. | 16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: With the E5-2630v4 this memory DIMM will only operate at 2133MHz. | | | |
| Network Controller | HPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE FlexibleLOM or stand up card | | | | | | | |
| Storage Controller | HPE Dynamic Smart Array B140i, plus optional HPE Flexible Smart Array or Smart HBA controller NOTE: Default is AHCI off chipset, Smart Array needs to be enabled on SATA model. | | | HPE Flexible Smart Array P840/4G Controller | HPE Flexible Smart Array P440ar/2GB | HPE Flexible Smart Array P840ar/2G Controller | HPE Flexible Smart Array P440ar/2GB | |
| Hard Drive | None ship standard | | | None ship standard; includes 10 LFF hard drive blanks | None ship standard | | | |
| Internal Storage | 4 LFF HDD Bays | 8 SFF HDD Bays (upgradable to 24) | | 12 LFF HDD Bays | 8 SFF HDD Bays (upgradable to 24) | | 12 LFF HDD Bays | 8 SFF HDD Bays (upgradable to 24) |

Pre-configured Models

| | | | | | | |
|--------------------------|---|---|--|---|--|---|
| Optical Drive Bay | Not Available | Optional Universal Media Bay (724865-B21) | Not Available | Optional Universal Media Bay (724865-B21) | Not Available | Optional Universal Media Bay (724865-B21) |
| Optical Drive | Optional via HPE Mobile USB DVDRW Drive (701498-B21) | Optional DVD-ROM (726536-B21) or DVD-RW (726537-B21) via the Universal Media Bay (724865-B21) | Optional via HPE Mobile USB DVDRW Drive (701498-B21) | Optional DVD-ROM (726536-B21) or DVD-RW (726537-B21) via the Universal Media Bay (724865-B21) | Optional via HPE Mobile USB DVDRW Drive (701498-B21) | Optional DVD-ROM (726536-B21) or DVD-RW (726537-B21) via the Universal Media Bay (724865-B21) |
| PCI-Express Slots | 3 PCIe slots (+3 PCI slots available with upgrade option, second processor required) | | | | | |
| Power Supply | (1) HPE 500W Flex Slot Platinum Power Supply | (2) HPE 800W Flex Slot Platinum Power Supply | (1) HPE 500W Flex Slot Platinum Power Supply | (2) HPE 800W Flex Slot Platinum Power Supply | (1) HPE 500W Flex Slot Platinum Power Supply | (1) HPE 500W Flex Slot Platinum Power Supply |
| Fans | 4 hot plug fans, redundant | 6 hot plug high performance fans, redundant | 4 hot plug fans, redundant | 6 hot plug high performance fans, redundant | 4 hot plug fans, redundant | 4 hot plug fans, redundant |
| Management | iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HPE OneView (optional) | | | | | |
| Form Factor | Rack (2U), HPE Easy Install Rails | Rack (2U), HPE Easy Install Rails with CMA | | | | Rack (2U), HPE Easy Install Rails |
| Warranty | Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response | | | | | |

Pre-configured Models

| | Performance Models | | | High Performance Models | |
|-----------------------------|---|---|---|--|---|
| [SKU Number] | 752689-B21 | 826684-B21 | 852432-B21 | 803860-B21 | 803861-B21 |
| Model Name | HPE ProLiant DL380 Gen9 E5-2650v3 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server | HPE ProLiant DL380 Gen9 E5-2650v4 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server | HPE ProLiant DL380 Gen9 E5-2660v4 2P 64GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server | HPE ProLiant DL380 Gen9 E5-2690v3 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W High Perf Server | HPE ProLiant DL380 Gen9 E5-2690v3 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W OneView Server |
| Processor | Intel® Xeon® E5-2650v3 | Intel® Xeon® E5-2650v4 | Intel® Xeon® E5-2660v4 | Intel® Xeon® E5-2690v3 | |
| Number of Processors | Two | | | | |
| Memory | 32GB (2x16GB Registered DIMMs, 2133 MHz) | 32GB (2x16GB Registered DIMMs, 2400 MHz) | 64GB (4x16GB Registered DIMMs, 2400 MHz) | 32GB (2x16GB Registered DIMMs, 2133 MHz) | |
| Network Controller | HPE Embedded 4x1Gb, plus 2x10Gb-T FlexibleLOM | | HPE Embedded 4x1Gb, plus 2x10Gb SFP+ FlexibleLOM | HPE Embedded 4x1Gb, plus 2x10Gb-T FlexibleLOM | |
| Storage Controller | HPE Flexible Smart Array P440ar/2GB | | | | |
| Hard Drive | None ship standard | | | | |
| Internal Storage | 8 SFF HDD Bays (upgradable to 24) | | | | |
| Optical Drive Bay | Optional Universal Media Bay (724865-B21) | Universal Media Bay (724865-B21) | | | |
| Optical Drive | HPE Half-Height SATA DVD-RW Optical Drive | | | | |
| PCI-Express Slots | 6 PCIe slots (includes second riser slot upgrade option) | 6 PCIe 3.0 slots | | 6 PCIe slots (includes second riser slot upgrade option) | |
| Power Supply | (2) HPE 800W Flex Slot Platinum Power Supply | | | | |
| Fans | 6 hot plug fans, redundant | | | | |
| Management | iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HPE OneView (optional) | | | | iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HPE OneView (Standard) |
| Energy Star | Meets Energy Star requirements | | | | |
| Form Factor | Rack (2U), HPE Easy Install Rails with CMA | | | | |
| Warranty | Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response | | | | |

Pre-configured Models

NOTE: UEFI is the standard default for all Predefined models.

Country Code Key xx1 = B21 Worldwide

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

xx1 = 291 Japan

xx1 = AA1 PRC

Configuration Information - Factory Integrated Models

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

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

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

| | | | | | |
|---------------------------|---|--|---|--|---|
| [Chassis] | HPE ProLiant DL380 Gen9 8SFF Configure-to-order Server | HPE ProLiant DL380 Gen9 NVMe 6 Solid State Drive Express Bay Configure-to-order Server | HPE ProLiant DL380 Gen9 24SFF Configure-to-order Server | HPE ProLiant DL380 Gen9 4LFF Configure-to-order Server | HPE ProLiant DL380 Gen9 12LFF Configure-to-order Server |
| SKU Number | 719064-B21 | 810393-B21 | 767032-B21 | 767033-B21 | 719061-B21 |
| Processor | 2 (optional) x HPE Smart Socket Guide | | | | |
| DIMM Slots | 24 DIMM slots for RDIMM, LRDIMM DDR4 Memory | | | | |
| Storage Controller | HPE Dynamic Smart Array B140i, plus optional HPE Flexible Smart Array or Smart HBA controller | | | | |
| PCIe | 3 PCIe slots (+3 PCI slots available with upgrade option, second processor required) | | | | |
| Drive Cage | 8SFF Hot Plug (+8SFF and Universal Media Bay Optional) | 8SFF +6NVMe Hot Plug (+8SFF or Universal Media Bay Optional) | 24SFF Hot Plug | 4LFF Hot Plug | 12LFF Hot Plug |
| Network Controller | HPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE FlexibleLOM or stand up card | HPE Embedded 1Gb Ethernet 4-port 331i Adapter | HPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE FlexibleLOM or stand up card | | |
| Fans | 4 hot plug fans, redundant | 6 hot plug high performance fans, redundant | | 4 hot plug fans, redundant | 6 hot plug high performance fans, redundant |
| Management | iLO Management (standard), Intelligent Provisioning (standard) | | | | |
| USB | 1 front, 2 internal, 2 rear | 1 front, 1 internal, 2 rear | 1 front, 2 internal, 2 rear | No front USB support | |
| Ears | HPE Quick Release Ears | | | | |

NOTE: With the NVMe chassis (810393-B21) there are limitations on GPU support.

NOTE: The NVMe chassis (810393-B21) ships with the standard x8 Risers supporting 6xNVMe drives.

Step 2: Choose Required Options (only one of the following from each list unless otherwise noted)

HPE Processors

Select one or two processors from Core Options-Processor section below.

- If one processor is desired, select one xxxxxx-L21
- If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.

Configuration Information - Factory Integrated Models

- Up to 2 processors supported. Mixing different processor models is not supported.
- DDR4 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 E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) = version number.

HPE Memory

Select one or more memory from Core Options-Memory section below.

- UDIMM, RDIMM, and LRDIMM are all distinct memory technologies and cannot be mixed within a server.
- HPE memory options from previous generation servers are not qualified or warranted with Hewlett Packard Enterprise Gen9 systems. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9.
- If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available.
- Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: <http://www.hpe.com/go/ddr4config>.

HPE Power Supplies

Select one or more power supplies from Core Options-Power Supplies section below.

- Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <http://www.hpe.com/info/hppoweradvisor>.
- Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

Step 3: Choose Additional Factory Integratable Options

HPE Unique Options Select one or more Unique options from Core Options section below.

- This section may contain FIO options, please see the Unique options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE I/O Expansion Options

Select one or more Riser Kit options from Core Options section below.

- To take advantage of the additional PCI slot upgrade, the second processor must be installed.
- This section may contain FIO options, please see HPE I/O Expansion Options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Drives

Select one or more drives from Core Options-HPE Drives section below.

- The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.
- Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.
- The HPE ProLiant Gen9 Smart Storage solutions are equipped with re-designed Small Form

Configuration Information - Factory Integrated Models

Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HPE Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove."

HPE FlexibleLOM Select a FlexibleLOM from Core Options-Networking section below.

- Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.
- For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
- Please see the QuickSpecs for Technical Specifications and additional information:
<http://www.hpe.com/go/ProLiantNICs>.

HPE Networking Select a standup NIC adapter from Core Options-Networking section below.

- Please see the QuickSpecs for Technical Specifications and additional information:
<http://www.hpe.com/go/ProLiantNICs>
- These options are upgradeable and can be changed from the original configuration after the server is shipped.
- For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

HPE Storage Controllers Select one or more Storage options from Additional Options section below.

- The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.
- This section may contain FIO options, please see HPE Storage Controllers section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Graphics Options Select one or more graphics adapter from Additional Options section below.

- Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located at:
<http://www.hpe.com/info/hppoweradvisor>.
- This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.

HPE Cooling Options Select one or more Fan Kits from Core Options section below.

- This section may contain FIO options, please see HPE Cooling Options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Rail Kits Select one type of rail kit from Additional Options section below.

- Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server.
- To assist in the installation of the server into the rack, an optional installation tool is available by contacting your local services representative (p/n 695539-001).
- See Hewlett Packard Enterprise Rack Options in Additional Options section of this QuickSpecs for

Configuration Information - Factory Integrated Models

more rack kit choices.

CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

Core Options

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

HPE Unique Options

HP DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit 774741-B21

NOTE: This option provides support for up to 6 NVMe drives, and can only be populated in BAY2 in SFF chassis only, can be used with Bay1 and Bay 3 populated.
NOTE: The HPE DL380 Gen9 High Performance Fan Kit is required for NVMe support (719079-B21).
NOTE: The PCIe card in this enablement kit can only be populated in slot2 (primary) or slot 5 (secondary).
NOTE: For true x16 support with this option a secondary riser (719073-B21) is needed (second processor required).
NOTE: Kit includes Mylar film for Universal Media Bay (724865-B21) support to ensure optimal airflow.
NOTE: For NVMe CTO support, please use the NVMe chassis (810393-B21), this kit is for field upgrades only.
NOTE: There are limitations on GPU support with the NVMe bay installed.

HP DL380 Gen9 Universal Media Bay Kit 724865-B21

NOTE: The HPE DL380 Gen9 Universal Media bay provides front VGA and 2xUSB 2.0; plus support for 2xSFF front drives (724864-B21) and ODD support (No included); and can only be located in Bay1 in either an 8SFF or 8+8SFF front end.

HP DL380 Gen9 Graphics Enablement Kit 719082-B21

NOTE: This kit includes alternative 2 heatsinks plus 6 cables to enable GPU support. Other limitations apply, see Graphic section for more details.
NOTE: We support up to 2 Double wide and 3 single wide Graphics cards, limitations apply.
NOTE: Double Wide GPUs will occupy slots 2 and 5 and will leave only 2 slots left open.
NOTE: There are limitations on GPU support with the NVMe bay installed.

HP DL380 Gen9 High Performance Fan Kit 719079-B21

NOTE: This kit is required for specific Ambient temperature environments, more details here: <http://www.hpe.com/servers/ashrae>

NOTE: This kit is also required to support Passive GPUs.

NOTE: This kit provides max cooling for your Server.

HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit 724864-B21

NOTE: For 2SFF front the Universal Media Bay (724865-B21) is required.
NOTE: 2SFF in the rear is only supported with a 24SFF (CTO chassis or field upgraded) or 12LFF (719061-B21) front end.
NOTE: Rear drives will not support higher than 160W CPUs and other special/unique CPUs.

HP DL380 Gen9 3LFF Rear SAS/SATA Kit 768856-B21

NOTE: This is only supported in the 12LFF chassis (CTO: 719061-B21 or BTO skus).

NOTE: 3LFF rear drives will consume the 2nd riser expansion slot.

NOTE: Rear drives will not support higher than 160W CPUs and other special/unique CPUs.

HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit 719076-B21

Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL.

Core Options

NOTE: This replaces the standard Primary riser in slot1.

HPE DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit 719073-B21

Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.

HPE DL380 Gen9 8SFF Bay1 Cage/Backplane Kit 719067-B21

NOTE: To add an additional 8SFF drive cage in Bay1.

NOTE: To get to 16SFF total please populate bay 2 with 768857-B21 (from an 8SFF starting point).

NOTE: This ships with 6 High Efficiency Fans.

NOTE: Selecting this option does not allow you to select the Universal Media Bay.

HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit 768857-B21

NOTE: To add an additional 8SFF drive cage in Bay 2. This is the optimal solution to upgrade to 16SFF total and allows the flexibility to add the Universal Media Bay (724865-B21) for 2 additional SFF or Optical.

HP 12Gb SAS Expander Card with Cables for DL380 Gen9 727250-B21

NOTE: SAS expander to enable 24SFF field upgrade.

NOTE: Primary population in slot2 or 3 of the Primary Riser.

HP DL380 Gen9 Systems Insight Display Kit 768900-B21

NOTE: The Systems Insight Display no longer ships as standard but is available as a Factory Integrated or field upgrade option.

HP Legacy FIO Mode Setting 758959-B22

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

HP DL380 Gen9 Rear Serial Port and Enablement Kit 768896-B21

HPE DL380 Gen9 P440ar/H240ar Riser 2 SAS Expander Kit 844115-B21

NOTE: Cable kit required to support the SAS Expander (727250-B21) in the secondary riser (719073-B21) with the P840ar or P440ar.

HPE Processors

E5-2600v4 series Processors

HPE DL380 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit 817941-L21

HPE DL380 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit 817941-B21

HPE DL380 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit 817931-L21

HPE DL380 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit 817931-B21

HPE DL380 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit 817925-L21

NOTE: This processor does not support Hyper-Threading.

HPE DL380 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit 817925-B21

NOTE: This processor does not support Hyper-Threading.

HPE DL380 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit 817923-L21

NOTE: This processor does not support Hyper-Threading.

HPE DL380 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit 817923-B21

NOTE: This processor does not support Hyper-Threading.

HPE DL380 Gen9 Intel® Xeon® E5-2643v4 (3.4GHz/6-core/20MB/135W) FIO 817939-L21

Core Options

Processor Kit

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2637v4 (3.5GHz/4-core/15MB/135W) FIO Processor Kit 817935-L21

Processor Kit

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2637v4 (3.5GHz/4-core/15MB/135W) Processor Kit 817935-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit 817929-L21

HPE DL380 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit 817929-B21

HPE DL380 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit 817927-L21

HPE DL380 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit 817927-B21

HPE DL380 Gen9 Intel® Xeon® E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit 817939-B21

HPE DL380 Gen9 Intel® Xeon® E5-2687Wv4 (3.0GHz/12-core/30MB/160W) FIO Processor Kit 817957-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit 817957-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2699v4 (2.2GHz/22-core/55MB/145W) FIO Processor Kit 817967-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit 817967-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Processor Kit 817965-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit 817965-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2697v4 (2.3GHz/18-core/45MB/145W) FIO Processor Kit 817963-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit 817963-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2697Av4 (2.6GHz/16-core/40MB/145W) FIO Processor Kit 817955-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit 817955-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO 817961-L21

Core Options

Processor Kit

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Processor Kit 817961-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2690v4 (2.6GHz/14-core/35MB/135W) FIO Processor Kit 817959-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2690v4 (2.6GHz/14-core/35MB/135W) Processor Kit 817959-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit 817953-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit 817953-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit 817951-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit 817951-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit 817945-L21

HPE DL380 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit 817945-B21

HPE DL380 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit 817943-L21

HPE DL380 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit 817943-B21

HPE DL380 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit 817937-L21

HPE DL380 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit 817937-B21

HPE DL380 Gen9 Intel® Xeon® E5-2667v4 (3.2GHz/8-core/25MB/135W) FIO Processor Kit 817947-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2667v4 (3.2GHz/8-core/25MB/135W) Processor Kit 817947-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit 817933-B21

HPE DL380 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit 817933-L21

HPE DL380 Gen9 Intel® Xeon® E5-2699Av4 (2.4GHz/22-core/55MB/145W) Processor Kit 871026-B21

HPE DL380 Gen9 Intel® Xeon® E5-2699Av4 (2.4GHz/22-core/55MB/145W) FIO 871026-L21

Core Options

Processor Kit

E5-2600v3 series Processors

HPE DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit 719052-L21

NOTE: This processor does not support Hyper-Threading.

HPE DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit 719052-B21

NOTE: This processor does not support Hyper-Threading.

HPE DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit 719053-L21

NOTE: This processor does not support Hyper-Threading.

HPE DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit 719053-B21

NOTE: This processor does not support Hyper-Threading.

HPE DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit 719060-L21

HPE DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit 719060-B21

HPE DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit 719049-L21

HPE DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit 719049-B21

HPE DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit 719058-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit 719058-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit 719050-L21

HPE DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit 719050-B21

HPE DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit 779556-L21

HPE DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit 779556-B21

HPE DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit 719051-L21

HPE DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit 719051-B21

HPE DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit 762768-L21

NOTE: Ships with a High Performance Heatsink.

NOTE: This processor is not supported in a 12LFF or 24SFF Chassis + Rear drive.

HPE DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit 762768-B21

NOTE: Ships with a High Performance Heatsink.

NOTE: This processor is not supported in a 12LFF or 24SFF Chassis + Rear drive.

HPE DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit 781915-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit 781915-B21

Core Options

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit 781913-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit 781913-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit 719054-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor Kit 719054-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit 762760-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit 762760-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit 719044-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit 719044-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit 719055-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor Kit 719055-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit 762766-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor Kit 762766-B21

NOTE: Ships with a High Performance Heatsink.

HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) FIO Processor Kit 719046-L21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor Kit 719046-B21

NOTE: Ships with a High Performance Heatsink.

HPE DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit 762764-L21

HPE DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit 762764-B21

HPE DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO 719059-L21

Core Options

| | |
|--|------------|
| Processor Kit | |
| HPE DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit | 719059-B21 |
| HPE DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit | 719048-L21 |
| HPE DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit | 719048-B21 |
| HPE DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit | 719056-L21 |

NOTE: Ships with a High Performance Heatsink.

| | |
|---|------------|
| HPE DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor Kit | 719056-B21 |
|---|------------|

NOTE: Ships with a High Performance Heatsink.

| | |
|---|------------|
| HPE DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor Kit | 719057-L21 |
|---|------------|

NOTE: Ships with a High Performance Heatsink.

| | |
|---|------------|
| HPE DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit | 719057-B21 |
|---|------------|

NOTE: Ships with a High Performance Heatsink.

NOTE: FIO indicates factory integrated option via CTO.

NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations include two processors.

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

NOTE: Turbo2: Intel® Turbo Boost Technology 2.0 provides more computing power when you need it with performance that adapts to spikes in your workload and delivers more performance upside than then previous generation turbo technology.

NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

NOTE: The xxxxxx-L21 is the first processor shipped, the xxxxxx-B21 is the 2nd processor and ships with 2 additional FANs for factory of field installation.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

NOTE: Mixing of E5-2600v3 and E5-2600v4 Processors is not supported.

NOTE: Field upgrade from E5-2600v3 to E5-2600v4 is supported.

Memory Selection

To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends memory from the list located here: <http://www.hpe.com/products/recommend>.

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

HPE Memory

Registered DIMMs (RDIMMs) for E5-2600v3 Series

NOTE: The following memory is supported by the E5-2600v3 series Processors.

| | |
|--|------------|
| HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit | 726717-B21 |
| HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit | 726718-B21 |
| HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit | 759934-B21 |
| HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit | 726719-B21 |
| HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit | 728629-B21 |

NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz.

Core Options

NOTE: Mixing of DIMM types is not supported.

NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.

Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series

NOTE: The following memory is supported by the E5-2600v3 series Processors.

HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726720-B21

HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726722-B21

HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit 726724-B21

NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz.

NOTE: Mixing of DIMM types is not supported.**NOTE:** Mixing of 2133 and 2400MHz DIMMs is not supported.

Registered DIMMs (RDIMMs) for E5-2600v4 Series

NOTE: The following memory is supported by the E5-2600v4 series Processor only.

HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805347-B21

HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805349-B21

HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit 836220-B21

HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit 805351-B21

NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MHz.

NOTE: Mixing of DIMM types is not supported.

NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.

Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series

NOTE: The following memory is supported by the E5-2600v4 series Processor only.

HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit 805353-B21

HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit 805358-B21

HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit 809208-B21

NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MHz.

NOTE: These LRDIMMs do not support NVDIMMs.

NOTE: Mixing of DIMM types is not supported.

NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.

NOTE: Mixing the 128GB LRDIMM with other capacities is not supported.

HPE Persistent Memory (NVDIMM)

NOTE: The following memory is supported by the E5-2600v4 series Processor only.

HPE 8GB NVDIMM Single Rank x4 DDR4-2133 Module 782692-B21

NOTE: NVDIMMs are only supported with E5-2600v4 processors, excluding field upgrades from E5-2600v3 to E5-2600v4.

NOTE: A maximum of 16 NVDIMMs supported.

NOTE: Can only be mixed with RDIMMs.

NOTE: Depending on Processor selected this memory will run at 2133MHz maximum.

HPE Optical Drives HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive 726536-B21
NOTE: The Universal Media Bay (724865-B21) is required for this option.

Core Options

| | |
|--|------------|
| HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive | 726537-B21 |
| NOTE: The Universal Media Bay (724865-B21) is required for this option. | |
| HP Mobile USB Non Leaded System DVD RW Drive | 701498-B21 |
| NOTE: This is only supported on USB 3.0 ports. | |

HPE Drives

SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

| | |
|--|------------|
| HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 872481-B21 |
| HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e HDD | 791034-B21 |
| HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 872479-B21 |
| HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD | 781518-B21 |
| HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 870759-B21 |
| HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 870765-B21 |
| HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD | 785069-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 870757-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 870763-B21 |
| HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 872477-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e HDD | 748387-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD | 759212-B21 |
| HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD | 781516-B21 |
| HPE 450GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD | 759210-B21 |
| HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 870753-B21 |
| HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 872475-B21 |
| HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD | 759208-B21 |
| HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD | 785067-B21 |
| SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives | |
| HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD | 765466-B21 |
| HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD | 765464-B21 |
| HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty HDD | 832514-B21 |
| 12G SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives | |
| HPE 600GB SAS 12G Enterprise 15K LFF (3.5in) SC 3yr Wty HDD | 765424-B21 |
| HPE 450GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty HDD | 737394-B21 |
| HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty HDD | 737261-B21 |
| 12G SAS Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty | |
| HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 857644-B21 |
| HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861590-B21 |
| HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 819201-B21 |
| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 846514-B21 |

Core Options

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| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e HDD | 793699-B21 |
| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861754-B21 |
| HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872487-B21 |
| HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 818367-B21 |
| HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861756-B21 |
| HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive | 793669-B21 |
| HPE 3TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 846528-B21 |
| HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872485-B21 |
| HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 818365-B21 |
| HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 846524-B21 |

SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives

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

SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives

| | |
|---|------------|
| HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 857648-B21 |
| HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861594-B21 |
| HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 819203-B21 |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 846510-B21 |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e HDD | 793683-B21 |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861750-B21 |
| HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive | 793667-B21 |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872491-B21 |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861678-B21 |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861752-B21 |
| HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives | 793665-B21 |
| HPE 3TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861693-B21 |
| HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872489-B21 |
| HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861676-B21 |
| HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861691-B21 |
| HPE 500GB SATA 6G Midline 7.2k LFF (3.5in) SC 1yr Wty HDD | 658071-B21 |

SSD Selection

To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located here:

<http://www.hpe.com/products/recommend>

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

12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives

| | |
|--|------------|
| HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872386-B21 |
| HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 822567-B21 |
| HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872382-B21 |
| HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 822563-B21 |
| HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872376-B21 |
| HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 822559-B21 |

Core Options

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| HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872374-B21 |
| HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 822555-B21 |
| 12G SAS Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives | |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 816576-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872394-B21 |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872392-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872390-B21 |
| 12G SAS Hot Plug RI-3 SFF (3.5-inch) SC Solid State Drives | |
| HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 872378-B21 |
| 12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives | |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 802891-B21 |
| HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 779176-B21 |
| HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 802586-B21 |
| HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 779172-B21 |
| HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 779168-B21 |
| HPE 200GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 779164-B21 |
| HPE 200GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 802578-B21 |
| HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 802582-B21 |
| 6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1 Solid State Drives | |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 764927-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives | |
| HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868830-B21 |
| HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868826-B21 |
| HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 871770-B21 |
| HPE 1.6TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869386-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869384-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868822-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 871768-B21 |
| HPE 800GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 804599-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869378-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868818-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 872855-B21 |
| HPE 240GB 6G SATA Read Intensive SFF (2.5-inch) SC DS SSD | 868814-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869376-B21 |

Core Options

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| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 872853-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 804587-B21 |
| HPE 150GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869374-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives | |
| HPE 1.6TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Digitally Signed Firmware SSD | 872363-B21 |
| HPE 1.2TB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 804677-B21 |
| HPE 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Digitally Signed Firmware SSD | 872359-B21 |
| HPE 800GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 804671-B21 |
| HPE 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Digitally Signed Firmware SSD | 872355-B21 |
| HPE 400GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 804665-B21 |
| HPE 200GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 804639-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives | |
| HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872352-B21 |
| HPE 1.6TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 804631-B21 |
| HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872348-B21 |
| HPE 800GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 804625-B21 |
| HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872344-B21 |
| HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 832414-B21 |
| HPE 200GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 804613-B21 |
| 6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives | |
| HPE 1.6TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 869388-B21 |
| HPE 800GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty SSD | 804602-B21 |
| HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 869380-B21 |
| HPE 240GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty SSD | 804590-B21 |
| HPE 120GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty SSD | 804584-B21 |
| 6G SATA Hot Plug LFF (3.5-inch) SC Write Intensive Solid State Drives | |
| HPE 1.6TB 6G SATA Write Intensive-2 LFF 2.5-in SC 3yr Wty Digitally Signed Firmware SSD | 872365-B21 |
| HPE 1.2TB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty SSD | 804680-B21 |
| HPE 800GB 6G SATA Write Intensive-2 LFF 2.5-in SC 3yr Wty Digitally Signed Firmware SSD | 872361-B21 |
| HPE 800GB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty SSD | 804674-B21 |
| HPE 400GB 6G SATA Write Intensive-2 LFF 2.5-in SC 3yr Wty Digitally Signed Firmware SSD | 872357-B21 |
| HPE 400GB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty SSD | 804668-B21 |
| HPE 200GB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty SSD | 804642-B21 |
| 6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives | |
| HPE 1.6TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD | 804634-B21 |
| HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 872350-B21 |
| HPE 800GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD | 804628-B21 |

Core Options

HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD 872346-B21

HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD 832417-B21

HPE 200GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD 804616-B21

HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives

HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty SSD 764908-B21

HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875591-B21

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

HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875589-B21

HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875587-B21

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

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

HPE NVMe PCIe Mixed Use SFF (2.5 inch) Solid State Drives

HPE 2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD 765044-B21

HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875597-B21

HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD 765038-B21

HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875595-B21

HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD 765036-B21

HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD 875593-B21

HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD 765034-B21

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

HPE NVMe PCIe Write Intensive SFF (2.5-inch) Solid State Drives

HPE 2TB NVMe x4 Lanes Write Intensive SFF(2.5in) SCN 3yr Wty SSD 764894-B21

HPE 1.6TB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD 764892-B21

HPE 800GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD 736939-B21

HPE 400GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD 736936-B21

NOTE: The NVMe CTO chassis (810393-B21) or the NVMe Express Bay Enablement kit (774741-B21) are required to support these drives.

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

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

M.2 SSD

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

HPE 340GB SATA 6G Read Intensive 3yr Wty M.2 Kit 835563-B21

HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers 777894-B21

HPE 120GB SATA 6G Read Intensive HHHL 3yr Wty M.2 Kit 788028-B21

NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only.

NOTE: M.2 supports Software RAID only.

NOTE: No HPE Flexible Smart Array supported.

Hard Drive Blank Kits

Core Options

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

Hard Drive Kits

| | |
|---|------------|
| HP DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit | 774741-B21 |
|---|------------|

NOTE: This option provides support for up to 6 NVMe drives, and can only be populated in BAY2 in SFF chassis only, can be used with Bay1 and Bay 3 populated.

NOTE: The HPE DL380 Gen9 High Performance Fan Kit is required for NVMe support (719079-B21).

NOTE: The PCIe card in this enablement kit can only be populated in slot2 (primary) or slot 5 (secondary).

NOTE: For true x16 support with this option a secondary riser (719073-B21) is needed (second processor required).

NOTE: Kit includes Mylar film for Universal Media Bay (724865-B21) support to ensure optimal airflow.

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| HPE DL380 Gen9 8SFF Bay1 Cage/Backplane Kit | 719067-B21 |
| HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit | 768857-B21 |
| HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit | 724864-B21 |
| HP DL380 Gen9 3LFF Rear SAS/SATA Kit | 768856-B21 |

NOTE: For a complete list of the drive, controller and cable options please check the compatibility matrix:

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA5-4154ENW&cc=us&lc=en>

Media Bay Kits

| | |
|---------------------------------------|------------|
| HP DL380 Gen9 Universal Media Bay Kit | 724865-B21 |
|---------------------------------------|------------|

NOTE: The Universal Media Bay offers front VGA and 2xUSB 2.0, plus ability to add optional Optical drive, and 2SFF.

NOTE: This is only compatible with the 8SFF or 8+8 SFF front end configurations and can only be populated in Bay1.

HPE Networking

1 Gigabit Ethernet adapters

| | |
|--------------------------------------|------------|
| HPE Ethernet 1Gb 4-port 331T Adapter | 647594-B21 |
| HPE Ethernet 1Gb 2-port 332T Adapter | 615732-B21 |
| HPE Ethernet 1Gb 2-port 361T Adapter | 652497-B21 |
| HPE Ethernet 1Gb 4-port 366T Adapter | 811546-B21 |

10 Gigabit Ethernet adapters

| | |
|--|------------|
| HPE Ethernet 10Gb 2-port 530SFP Adapter | 652503-B21 |
| HPE Ethernet 10Gb 2-port 530T Adapter | 656596-B21 |
| HPE Ethernet 10Gb 2-port 546SFP+ Adapter | 779793-B21 |
| HPE Ethernet 10Gb 2-port 557SFP+ Adapter | 788995-B21 |
| HPE Ethernet 10Gb 2-port 560SFP+ Adapter | 665249-B21 |
| HPE Ethernet 10Gb 2-port 561T Adapter | 716591-B21 |
| HPE Ethernet 10Gb 2-port 562SFP+ Adapter | 727055-B21 |
| HPE Ethernet 10Gb 2-port 570SFP+ Adapter | 718904-B21 |

NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded.

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

Core Options

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

<http://www.hp.com/go/ProLiantNICs>.

25 Gigabit Ethernet adapters

| | |
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| HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter | 817762-B21 |
| HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter | 817753-B21 |

FlexibleLOM Adapters

| | |
|--|------------|
| HPE Ethernet 1Gb 4-port 331FLR Adapter | 629135-B22 |
| HPE Ethernet 1Gb 4-port 366FLR Adapter | 665240-B21 |
| HPE FlexFabric 10Gb 2-port 533FLR-T Adapter | 700759-B21 |
| HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter | 700751-B21 |
| HPE FlexFabric 10Gb 4-port 536FLR-T Adapter | 764302-B21 |
| HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter | 779799-B21 |
| HPE FlexFabric 10Gb 2-port 556FLR-T Adapter | 794525-B21 |
| HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter | 727060-B21 |
| HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter | 665243-B21 |
| HPE Ethernet 10Gb 2-port 561FLR-T Adapter | 700699-B21 |
| HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter | 727054-B21 |
| HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter | 817749-B21 |

NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded.

NOTE: Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.

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

<http://www.hp.com/go/ProLiantNICs>.

| | | |
|-----------------------|--|------------|
| HPE InfiniBand | HPE InfiniBand FDR 2-port 545QSFP Adapter | 702211-B21 |
| | NOTE: The RHEL6.5 driver is not part of SPP, but may be downloaded here: http://downloads.linux.hp.com/SDR/downloads/MLNX_OFED/ . | |
| | HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter | 764284-B21 |
| | HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter | 764285-B21 |
| | HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter | 764286-B21 |
| | HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel® Omni-Path Architecture Adapter | 829335-B21 |
| | HPE 100Gb 1-port OP101 QSFP28 x8 PCIe Gen3 with Intel® Omni-Path Architecture Adapter | 829334-B21 |
| | HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter | 825110-B21 |
| | HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter | 825111-B21 |

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| HPE I/O Expansion Options | HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit | 719076-B21 |
| | NOTE: This is for slot 1 and supports double wide GPGPUs. | |
| | NOTE: For Graphics cards please also order the DL380 Gen9 Graphics Enablement kit, 719082-B21 | |

Core Options

Slot1: 1xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

HPE DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit

719073-B21

NOTE: This is for slot 2 and supports double wide GPGPUs.

NOTE: For Graphics cards please also order the DL380 Gen9 Graphics Enablement kit, 719082-B21

Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

HPE Power Supplies

HPE Flex Slot Platinum Hot-plug Power supplies

HPE 500W Flex Slot Platinum Hot Plug Power Supply Kit

720478-B21

NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

HPE 800W Flex Slot Titanium Hot Plug Power Supply Kit

720482-B21

NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.

HPE 800W Flex Slot Platinum Hot Plug Power Supply Kit

720479-B21

NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

HPE 800W Flex Slot Universal Hot Plug Power Supply Kit

720484-B21

NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.

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

720480-B21

NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.

HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit

720620-B21

NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).

NOTE: All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

NOTE: Mixing different power supplies in the same server may limit or disable some power supply features including support for power redundancy. To ensure access to all available features, all power supplies within the same server should have the same output and efficiency ratings

NOTE: Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <http://www.hpe.com/info/hppoweradvisor>

NOTE: Support for HPE Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HPE Server power supplies can be found at <http://www.hp.com/go/proliant/powersupply>

NOTE: Maximum of 2 Flex Slot PS per platform.

HPE Computation

HP DL380 Gen9 Graphics Enablement Kit

719082-B21

Core Options

and Graphics Accelerators

NOTE: This GPU enablement kit includes 2 Heatsinks and 8 cables to enable double wide GPUs to be supported.

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card for cards over 150W. Cards 150W or under can use 800W Power Supplies; however check the power usage via the HPE Power Advisor Tool located at <http://www.hpe.com/info/hppoweradvisor>.

NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators.

NOTE: Passive cards will require the addition of the High Performance Fan Kit (719079-B21).

NOTE: We support up to 2 Double wide and 3 single wide Graphics cards, limitations apply.

NOTE: This kit support up to 2 double wide Graphics cards.

NOTE: Double Wide GPUs will occupy slots 2 and 5 and will leave only 2 slots left open.

NOTE: There are limitations on GPU support (1x double wide) with the NVMe bay installed.

NOTE: All Accelerators are restricted to less than 1024GB for system host memory, with the exception of the Tesla P100, AMD and Intel cards.

NOTE: This kit includes PCIe GPU Retention Brackets that need to be installed on the air baffle to support FL cards.

NOTE: Not required for M2000.

NVIDIA Tesla K40C 12GB Computational Accelerator

753960-B21

NOTE: This is supported in all chassis.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079-B21).

NOTE: Only supported with E5-2600v3 processors.

HP NVIDIA Tesla K80 Dual GPU PCIe Computational Accelerator

JOG95A

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: This card only runs at PCIeGen2 speeds.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: PCIe accelerators are not supported in conjunction with this card.

NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).

NOTE: Max cooling setting required to support in RSBU.

NOTE: There are limitations operating this card with operative environment temperature limitations: 24SFF chassis to 30°C and 12LFF chassis to <25°C

HPE NVIDIA Tesla M4 4GB Computational Accelerator

P9U90A

NOTE: Maximum of 3 cards supported per server.

NOTE: This is supported in all chassis.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2

Core Options

(2nd processor required).

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

NOTE: No GPU enablement kit is required for this option.

NOTE: Only supported with E5-2600v4 processors.

NVIDIA Tesla M10 Quad GPU Module

Q0J62A

NOTE: This is supported in all chassis, however with the following limitations: 4LFF supported to 35C, 8SFF supported to 35C, 12LFF supported to 30C, 16SFF+Universal Media bay supported to 35C, 16SFF+NVMe cage supported to 35C and 24SFF+2SFF supported to 35C.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079-B21).

NOTE: Only supported with E5-2600v4 processors.

HPE NVIDIA Tesla M40 24GB Computational Accelerator

P8Y46A

NOTE: Maximum 2 supported with both risers, support for 2 cards requires the 1400W Power Supply (720620-B21) to be selected.

NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079-B21).

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: Only supported with E5-2600v4 processors.

NOTE: There are limitations operating this card with operative environment temperature limitations: 24SFF chassis to 30°C and 12LFF chassis to 25°C

HPE NVIDIA Tesla M60 Reverse Air Flow Dual GPU PCIe Graphics Accelerator

M3X67A

NOTE: Maximum 2 supported with both risers, support for 2 cards requires the 1400W Power Supply (720620-B21) to be selected.

NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079-B21).

NOTE: This card only runs at PCIeGen2 speeds.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: There are limitations operating this card with a 160W processor with operative environment temperature limitations: 8SFF to 35°C, 16 SFF to 25°C and 24SFF/12LFF to 20°C

NOTE: Additional Grid 2.0 Licensing from NVIDIA is required.

HPE NVIDIA Tesla P4 8GB Computational Accelerator

Q0V79A

NOTE: Maximum of 3 cards supported per server.

NOTE: This is supported in all chassis.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: 1x 1400W PS recommended, but this card will work with 1x800W PS (Per

Core Options

GPU). However check the power usage via the HPE Power Advisor Tool located at <http://www.hpe.com/info/hppoweradvisor>.

NOTE: No GPU enablement kit is required for this option.

NOTE: Only supported with E5-2600v4 processors.

HPE NVIDIA Tesla P100 PCIe 16GB Computational Accelerator

Q0E21A

NOTE: There are chassis limitations with this card: 4LFF supported to 25C, 8SFF supported to 30C, 12LFF not supported, 16SFF+Universal Media bay supported to 30C, 16SFF+NVMe cage supported to 30C and 24SFF+2SFF supported to 20C.

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators.

NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).

NOTE: This card is supported on the E5-2600v4 series processors only.

HPE NVIDIA Tesla P100 PCIe 12GB Computational Accelerator

Q2S42A

HPE NVIDIA Quadro P6000 Graphics Accelerator

Q0V76A

NOTE: There are chassis limitations with this card: 4LFF supported to 25C, 8SFF supported to 30C, 12LFF not supported, 16SFF+Universal Media bay supported to 30C, 16SFF+NVMe cage supported to 20C and 24SFF+2SFF supported to 20C.

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators.

NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).

NOTE: This card is supported on the E5-2600v4 series processors only.

HPE NVIDIA Quadro M2000 Graphics Accelerator

P8Y48A

NOTE: Maximum of 3 cards supported per server.

NOTE: This is supported in all chassis.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: Only supported with E5-2600v4 processors.

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

NOTE: No GPU enablement kit is required for this option.

HPE NVIDIA Quadro M4000 Graphics Accelerator

M9X58A

NOTE: Only supported with E5-2600v4 processors.

NOTE: This is supported in all chassis.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2

Core Options

(2nd processor required).

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

HP NVIDIA Quadro M5000 Graphics Accelerator

M9R60A

NOTE: Only supported with E5-2600v4 processors.

NOTE: This is supported in all chassis.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

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

NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079-B21).

HPE NVIDIA Quadro M6000 24GB Graphics Accelerator

P8Y47A

NOTE: Maximum 2 supported with both risers, support for 2 cards requires the 1400W Power Supply (720620-B21) to be selected.

NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079-B21).

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: Only supported with E5-2600v4 processors.

HP AMD FirePro W7100 Accelerator Kit

JOH10A

NOTE: This is supported in all chassis.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: Up to 3 of these single wide cards are supported.

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

HP AMD FirePro S9150 Accelerator Kit

JOH11A

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators.

NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).

NOTE: This card is supported on the E5-2600v3 series processors only.

NOTE: 12LFF support is restricted to 30C Server Ambient only.

HPE AMD FirePro S7150x2 Accelerator Kit

M3X68A

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2

Core Options

(2nd processor required).

NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators.

NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).

NOTE: This card is supported on the E5-2600v4 series processors only.

NOTE: This card only runs at PCIeGen2 speeds.

NOTE: There are limitations operating this card with operative environment temperature limitations: 12LFF chassis to 30°C

HPE 150W PCI-E Power Cable Kit

669777-B21

NOTE: This cable is required for the K1, K4200, K5200, M5000 and W7100 cards.

NOTE: Each DL380 Gen9 server will accommodate up to three single-width or two double width PCIe cards for Computational Graphics support. Note that 11.25" is the max length for a card to also allow for cabling. This applies to primary slots 1 & 2 or secondary slots 4 & 5.

NOTE: The NVIDIA Tesla, GRID and Quadro modules are supported only on 64-bit versions of Linux and Windows operating systems as well as on Virtual Machine client operating systems. The supported bare metal operating systems are RHEL6, SLES 11 and Windows Server 2012 R2.

NOTE: There are limitations on fan types, setting, and chassis support by card.

NOTE: Mixing of GPUs is not supported.

NOTE: All NVIDIA, Intel and AMD cards limit configurations to having less than 1TB memory installed.

NOTE: Double Wide GPUs will occupy slots 2 and 5 and will leave only 2 slots left open.

NOTE: There are limitations on GPU support with the NVMe bay installed.

HPE Cooling Options

HP DL380 Gen9 High Performance Fan Kit

719079-B21

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

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

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

NOTE: For elevated ambient temperature support please see:

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

Additional Options

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

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| HPE Insight Software | HPE Insight Control | | |
| | HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU | | C6N27A |
| | HPE Insight Management Media Kit | | C6N31A |
| | <p>NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.</p> <p>NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HPE Software Technical Support and Update Service.</p> <p>NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.</p> <p>NOTE: For additional license options please see the HPE Insight Control QuickSpecs.</p> <p>NOTE: For additional license options please see the QuickSpecs at: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123391</p> | | |
| HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU | | C6N36A | |

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| Embedded Management | HPE iLO Advanced | | |
| | HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU | | 512485-B21 |
| | HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU | | BD505A |
| | HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU | | E6U59ABE |
| | HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU | | E6U64ABE |

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| HPE Converged Infrastructure Management Software | HPE OneView Advanced (with HPE iLO Advanced) | | |
| | HPE OneView including 3yr 24x7 Support Physical 1-server LTU | | E5Y34A |
| | HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU | | E5Y35AAE |
| | HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU | | E5Y43A |
| | HPE OneView Advanced (without HPE iLO Advanced) | | |
| | HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU | | P8B24A |
| | HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU | | P8B26AAE |
| | HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU | | P8B31A |
| | HPE OneView Physical Media Kit LTU | | E5Y37A |
| | <p>NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.</p> <p>NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).</p> <p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/info/hpeoneview</p> | | |

Additional Options

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| High Performance Clusters | HPE Cluster Management Utility | |
| | HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU | QL803B |
| | HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU | BD476A |
| | NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support 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 shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement. | |
| | HPE Insight Cluster Management Utility Media | BD477A |
| | NOTE: For additional license kits please see the HPE Insight Cluster Management Utility QuickSpecs . | |

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| HPE PCIe Workload Accelerator Options | Light Endurance (LE) PCIe Workload Accelerators | |
| | HPE 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator | 775672-B21 |
| | NVME PCIe Workload Accelerators | |
| | HPE 6.4TB Read Intensive-2 FH/HL PCIe Workload Accelerator | 831739-B21 |
| | HPE 3.2TB Read Intensive-2 HH/HL PCIe Workload Accelerator | 831737-B21 |
| | HPE 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator | 803204-B21 |
| | HPE 1.6TB Read Intensive-2 HH/HL PCIe Workload Accelerator | 831735-B21 |
| | HPE 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator | 803197-B21 |
| | HPE 1.6TB NVMe Mixed Use HH/HL PCIe Workload Accelerator | 803202-B21 |
| | HPE 1.3TB Read Intensive-2 HH/HL PCIe Workload Accelerator | 831733-B21 |
| | HPE 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator | 803195-B21 |
| HPE 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator | 803200-B21 | |

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| HPE Security | HPE 2U Security Bezel Kit | 666988-B21 |
| | HPE Trusted Platform Module 2.0 Kit | 745823-B21 |
| | NOTE: If the TPM Module (488069-B21) is installed, then there is no support for TPM 2.0. | |
| | NOTE: This is supported on both the E5-2600v3 and E5-2600v4 processors. | |
| | NOTE: HPE Trusted Platform Module 2.0 Option works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants. | |
| | NOTE: HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option. | |
| | NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module. | |
| | HPE Trusted Platform Module Option | 488069-B21 |
| | NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version. Compatible server platforms include Gen8 and Gen9 servers. | |
| | NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module. | |

Additional Options

Controllers

HPE Flexible Smart Array Controllers

HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller 726736-B21

NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.

NOTE: Includes the HPE Smart Storage Battery.

HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller 749974-B21

NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.

NOTE: Includes the HPE Smart Storage Battery.

NOTE: FIO indicates factory integrated option via CTO.

HPE Smart Array P840ar/2GB FBWC 12Gb 2-port Internal SAS Controller 843199-B21

NOTE: Provides support for up to 16 internal SAS/SATA drives without using a PCIe slot.

NOTE: Includes the HPE Smart Storage Battery.

HPE Smart Array Controllers

HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller 726821-B21

NOTE: Provides support for up to 8 internal SAS/SATA drives.

HPE Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller 726897-B21

HPE Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller 726903-B21

HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller 726825-B21

HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller 761872-B21

NOTE: Provides support for up to 8 internal SAS/SATA drives.

NOTE: Includes the HPE Smart Storage Battery.

NOTE: FIO indicates factory integrated option via CTO.

HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller 761874-B21

NOTE: Includes the HPE Smart Storage Battery.

NOTE: When ordering controllers, please reference the HPE Cable Options below for the required cable.

NOTE: FIO indicates factory integrated option via CTO.

HPE Smart Host Bus Adapters

HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter 726911-B21

HPE H240 12Gb 2-ports Int Smart Host Bus Adapter 726907-B21

HPE H240ar 12Gb 2-ports Int Smart Host Bus Adapter 726757-B21

NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.

HP H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter 749976-B21

NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.

NOTE: FIO indicates factory integrated option via CTO.

HPE Cable Options

HP DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit 783007-B21

NOTE: 12LFF port 3 to 2SFF or 3LFF to P440/840 PCIe.

HP DL380 Gen9 2SFF Front SAS x4 Cable Kit 783008-B21

NOTE: For front mount 2SFF to H240/P440ar, H240 or embedded B140i SATA.

HP DL380 Gen9 8SFF SAS Cable Kit 783009-B21

NOTE: 8/16/24 SFF to P840/440 bay 3.

Additional Options

HP DL380 Gen9 2SFF x8 Front Cable Kit 785989-B21

NOTE: For front/rear mount 2SFF to P440/840 PCIe).

HP DL380 Gen9 12LFF SAS Cable Kit 785991-B21

NOTE: For 12LFF to P440/840 PCIe cables- ports 1/2/3.

HPE DL380 SFF Smart Array HBA H200/P400 Series SAS Cable Kit 786092-B21

NOTE: 8/16/24SFF to 240/440ar, H240 PCIe or embedded B140i SATA.

HP DL380 Gen9 12LFF Smart HBA H240 SAS Cable Kit 786215-B21

NOTE: For 12LFF ports 1&2 to H240/P440ar, H240 or embedded B140i SATA.

NOTE: For details on cabling options, additional information available here:

Cabling Matrix

Optional Software

HPE SmartCache No Media 24x7 Technical Support 1-server LTU D7S26A

HPE SmartCache No Media 24x7 Technical Support Flexible LTU D7S27A

HPE SmartCache No Media 24x7 Technical Support E-LTU D7S27AAE

NOTE: HPE SmartCache is supported when one of the supported Smart Array Controllers is installed in the server.

NOTE: HPE SmartCache comes standard (no licensing is required) if the HPE Smart Array P840 Controller is installed in the server.

Optional Upgrades

HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers 727258-B21

NOTE: Provides backup power for multiple HPE Smart Array controllers or other devices (up to 16).

NOTE: Ships as standard with some HPE Flexible Smart Array Controllers.

HPE Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see: <http://www.hp.com/go/tape>. For hardware and software compatibility of Hewlett Packard Enterprise tape backup products <http://www.hpe.com/storage/BURACompatibility>.

Tape Drives

HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive BB874A

HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader COH19A

HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit COL99A

HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive EH970A

HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit EJ014B

HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive EH958B

HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit EH946C

HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive EH920B

HPE StoreEver 1U SAS Rack Mount Kit AE459B

HPE Tape Storage Systems

HPE StoreEver MSL6480

HPE StoreEver MSL6480 Scaleable Expansion Module QU626A

NOTE: Please see the [HPE StoreEver MSL6480 Tape Library QuickSpecs for Technical Specifications and additional information](#)).

HPE StoreEver MSL6480 Scalable Base Module QU625A

HPE StoreEver MSL2024 0-drive Tape Library AK379A

HPE StoreEver MSL4048 0-drive Tape Library AK381A

Additional Options

| | | |
|------------------------|---|--------|
| HPE Disk Backup | HPE RDX Removable Disk Backup System | |
| | HPE RDX+ 3TB USB 3.0 External Disk Backup System | P9L72A |
| | HPE RDX 3TB USB 3.0 Internal Disk Backup System | P9L71A |
| | HP RDX 2TB USB3.0 External Disk Backup System | E7X53B |
| | HP RDX+ 1TB External Backup System | B7B69B |
| | HP RDX+ 500GB External Backup System | B7B66B |
| | HPE RDX+ External Docking System | C8S07B |
| | HPE D3700 Enclosure | QW967A |
| | HPE D3600 Enclosure | QW968A |
| | <p>NOTE: For the complete range of RDX drives and media see: http://www.hp.com/go/rdx. For hardware and software compatibility of Hewlett Packard Enterprise disk backup products see: http://www.hp.com/storage/SPOCK.</p> | |

HPE Storage Options

NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows Server 2003 and Linux, please see: <http://h18006.www1.hp.com/storage/saninfra/hba.html>.

Emulex Fibre Channel HBAs

| | |
|---|--------|
| HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter | AJ762B |
| HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AJ763B |
| HPE StoreFabric 84E 4-port 8Gb Fibre Channel Host Bus Adapter | E7Y63A |
| HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter | Q0L13A |
| HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter | Q0L14A |
| HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter | Q0L11A |
| HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter | Q0L12A |
| HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter | C8R38A |
| HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter | C8R39A |
| HPE StoreFabric SN1100E 4-port 16Gb Fibre Channel Host Bus Adapter | P9D99A |

QLogic Fibre Channel HBAs

| | |
|---|--------|
| HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter | AK344A |
| HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AJ764A |
| HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter | P9D91A |
| HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter | QW971A |
| HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter | P9D93A |
| HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter | QW972A |
| HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter | P9D94A |
| HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter | P9M75A |
| HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter | P9M76A |

Converged Network Adapter

| | |
|---|--------|
| HPE StoreFabric CN1100R Dual Port Converged Network Adapter | QW990A |
| HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter | N3U52A |
| HPE StoreFabric CN1200E 10Gb Converged Network Adapter | E7Y06A |
| HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter | N3U51A |

Additional Options

| | | |
|------------------------------|---|--------|
| HPE Data Center Racks | HPE Advanced Series Racks | |
| | HPE 48U 600mm x 1075mm Advanced Pallet Rack | H6J87A |
| | HPE 48U 600mm x 1075mm Advanced Shock Rack | H6J88A |
| | HPE 42U 600mm x 1075mm Advanced Pallet Rack | H6J65A |
| | HPE 42U 600mm x 1075mm Advanced Shock Rack | H6J66A |
| | HPE 42U 600mm x 1200mm Advanced Pallet Rack | H6J67A |
| | HPE 42U 600mm x 1200mm Advanced Shock Rack | H6J68A |
| | HPE 36U 600mm x 1075mm Advanced Pallet Rack | H6J77A |
| | HPE 36U 600mm x 1075mm Advanced Shock Rack | H6J78A |
| | HPE 22U 600mm x 1075mm Advanced Pallet Rack | H6J83A |
| | HPE 22U 600mm x 1075mm Advanced Shock Rack | H6J84A |
| | HPE 14U 600mm x 1075mm Advanced Shock Rack | H6J82A |

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

HPE Enterprise Series Racks

| | |
|---|--------|
| HP 47U 600mm x 1075mm Enterprise Pallet Rack | BW911A |
| HP 47U 600mm x 1075mm Enterprise Shock Rack | BW912A |
| HP 47U 600mm x 1200mm Enterprise Pallet Rack | BW913A |
| HP 47U 600mm x 1200mm Enterprise Shock Rack | BW914A |
| HPE 42U 600mm x 1075mm Enterprise Pallet Rack | BW903A |
| HP 42U 600mm x 1075mm Enterprise Shock Rack | BW904A |
| HP 42U 600mm x 1200mm Enterprise Pallet Rack | BW907A |
| HP 42U 600mm x 1200mm Enterprise Shock Rack | BW908A |
| HP 36U 600mm x 1075mm Enterprise Pallet Rack | BW895A |
| HP 36U 600mm x 1075mm Enterprise Shock Rack | BW896A |
| HP 42U 800mm x 1075mm Enterprise Pallet Rack | BW917A |
| HP 42U 800mm x 1075mm Enterprise Shock Rack | BW918A |

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

| | | |
|--|---|--------|
| HPE Power Distribution Units (PDUs) | HPE Basic Power Distribution Units (PDU) | |
| | HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU | H5M54A |
| | HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU | H5M56A |
| | HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU | H5M55A |
| | HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU | H5M57A |
| | HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU | H5M58A |
| | HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU | H5M68A |
| | HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU | H5M61A |
| | HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU | H5M59A |
| | HPE Basic 7.3kVA/60309 3-wire 32A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU | H5M70A |
| | HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU | H5M60A |
| | HPE Basic 11kVA/60309 63A 3-wire 48A/230V Outlets (30) C13 (6) C19/Vertical | H5M71A |

Additional Options

| | |
|---|------------|
| INTL PDU | |
| HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU | H5M75A |
| HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU | H5M63A |
| HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU | H5M64A |
| HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU | H5M62A |
| HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU | H5M72A |
| HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6) C19/Vertical INTL PDU | H5M73A |
| HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU | H5M67A |
| HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU | 252663-D71 |
| HPE Basic Modular 4.9kVA/L6-30P 24A/208V Outlets (4) C19/Horizontal NA/JP Core Only PDU | 252663-D74 |
| HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4) C19/Horizontal NA/JP PDU | 252663-D75 |
| HPE Basic Modular 7.3kVA/60309 3-wire 32A/230V Outlets (4) C19/Horizontal INTL Core Only PDU | 252663-B33 |
| HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4) C19/Horizontal INTL PDU | 252663-B34 |
| HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF512A |
| HPE Basic Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU | AF513A |
| HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF519A |
| HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF511A |
| HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU | AF518A |
| HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer | H3X09A |

NOTE: Please see the [HPE Basic Power Distribution Units \(PDU\) QuickSpecs](#) for information on additional options and product specifications.

HPE Metered Power Distribution Units (PDU)

| | |
|---|--------|
| HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU | D9N43A |
| HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU | D9N46A |
| HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU | D9N44A |
| HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU | D9N45A |
| HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU | G9Z05A |
| HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU | G9Z06A |
| HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU | D9N47A |
| HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU | D9N48A |

Additional Options

| | |
|---|--------|
| HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU | D9N51A |
| HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU | D9N53A |
| HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13 (3) C19/Vertical INTL PDU | D9N55A |
| HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU | D9N49A |
| HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlet (32) C13 (4) C19/Vertical INTL PDU | D9N50A |
| HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13 (3) C19/Vertical INTL PDU | D9N57A |
| HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | D9N58A |
| HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) C19/Vertical NA/JP PDU | D9N61A |
| HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | D9N62A |
| HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU | D9N54A |
| HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | D9N59A |
| HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | G9Z07A |
| HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU | D9N63A |
| HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlet (30) C13 (3) C19/Vertical INTL PDU | D9N56A |
| HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU | D9N60A |
| HPE Metered 3Ph 22kVA/60309 5-wire WT 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU | G9Z08A |
| HP Environmental Sensor for Remote Monitored and Managed PDUs | E2D53A |
| NOTE: Please see the HPE Metered Power Distribution Units (PDU) QuickSpecs for information on additional options and product specifications. | |
| HPE Intelligent Power Distribution Unit (PDU) | |
| HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF520A |
| HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF521A |
| HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF522A |
| HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU | AF523A |
| HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU | AF901A |
| HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU | AF525A |
| HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU | AF526A |
| HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) | AF527A |

Additional Options

| | |
|--|--------|
| C19/Horizontal INTL PDU | |
| HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU | AF535A |
| HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C19/Horizontal INTL PDU | AF538A |
| HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU | AF531A |
| HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU | AF532A |
| HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF533A |
| HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit | AF534A |
| HPE 5xC13 Intelligent PDU Extension Bar G2 Kit | AF547A |
| HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar | AF528A |

NOTE: Please see the [HPE Intelligent Power Distribution Unit \(PDU\) QuickSpecs](#) for information on additional options and product specifications.

HPE Metered and Switched Power Distribution Units (PDU)

| | |
|---|--------|
| HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU | H8B48A |
| HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1) C19/Vertical WW PDU | H8B49A |
| HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU | H8B50A |
| HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU | H8B51A |
| HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU | H8B52A |
| HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5- 20R/Vertical NA/JP PDU | H8B53A |
| HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU | H8B54A |
| HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | H8B55A |
| HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | H8B56A |

NOTE: Please see the [HPE Metered and Switched Power Distribution Units \(PDU\) QuickSpecs](#) for information on additional options and product specifications.

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

HPE Rack Mount Consoles, KVM Switches, and Keyboards

HPE Location Discovery Services

| | |
|---|------------|
| HPE 36U Location Discovery Kit | BW945A |
| HPE 42U Location Discovery Kit | BW946A |
| HPE 47U Location Discovery Kit | BW947A |
| HP DL380 Gen9 Location Discovery Services Ear Kit | 768884-B21 |
| HPE Location Discovery Services LCD8500 Kit | TL052A |

NOTE: Please see the [HPE Location Discovery Services QuickSpecs](#) for information

Additional Options

on additional options and product specifications.

HPE Rack Mount Consoles

| | |
|--|--------|
| HP LCD8500 1U US Rackmount Console Kit | AF630A |
| HP LCD8500 1U UK Rackmount Console Kit | AF631A |
| HP LCD8500 1U DE Rackmount Console Kit | AF632A |
| HP LCD8500 1U FR Rackmount Console Kit | AF633A |
| HP LCD8500 1U JP Rackmount Console Kit | AF642A |
| HP LCD8500 1U RU Rackmount Console Kit | AF643A |
| HP LCD8500 1U INTL Rackmount Console Kit | AF644A |
| HP LCD8500 1U US TAA Rackmount Console Kit | AF645A |

HPE KVM Switches

| | |
|--|--------|
| 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 KVM Console USB Interface Adapter | AF628A |
| 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 Console USB 2.0 Virtual Media CAC Interface Adapter | AF629A |
| 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 |

NOTE: To learn more, please visit the [HPE KVM Switches web page](#).

HPE USB Keyboard and Mouse

| | |
|------------------------------------|------------|
| HPE USB US Keyboard/Mouse Kit | 631341-B21 |
| HPE USB UK Keyboard/Mouse Kit | 631344-B21 |
| HPE USB FR Keyboard/Mouse Kit | 631346-B21 |
| HPE USB ES Keyboard/Mouse Kit | 631348-B21 |
| HPE USB DE Keyboard/Mouse Kit | 631358-B21 |
| HPE USB JP Keyboard/Mouse Kit | 631360-B21 |
| HPE USB IT Keyboard/Mouse Kit | 631362-B21 |
| HPE USB CN Keyboard/Mouse Kit | 631364-B21 |
| HPE USB AE Keyboard/Mouse Kit | 638212-B21 |
| HPE USB RU Keyboard/Mouse Kit | 638214-B21 |
| HPE USB IN Keyboard/Mouse Kit | 672097-D63 |
| HPE USB AP/INTL Keyboard/Mouse Kit | 672097-373 |
| HPE USB INTL Keyboard/Mouse Kit | 672097-B33 |
| HPE USB PT Keyboard/Mouse Kit | 672097-133 |
| HPE USB TR Keyboard/Mouse Kit | 672097-143 |
| HPE USB CZ Keyboard/Mouse Kit | 672097-223 |
| HPE USB FI Keyboard/Mouse Kit | 672097-353 |
| HPE USB SE Keyboard/Mouse Kit | 672097-103 |
| HPE USB CH Keyboard/Mouse Kit | 672097-113 |
| HPE USB KR Keyboard/Mouse Kit | 672097-KD3 |

Additional Options

Rail Kits

NOTE: Gen9 rail kits have changed significantly from prior generation rail kits. Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server.

NOTE: Rail kits are optional for DL380 Gen9 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit.

NOTE: Ball bearing and Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.

NOTE: To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001).

CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

HP 2U Small Form Factor Easy Install Rail Kit 733660-B21

NOTE: Does not include CMA (733664-B21).

HP 2U Large Form Factor Easy Install Rail Kit 733662-B21

NOTE: Does not include CMA (733664-B21).

HP 2U Cable Management Arm for Easy Install Rail Kit 733664-B21

HPE 2U Small Form Factor Ball Bearing Rail Kit 720863-B21

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

HPE 2U Large Form Factor Ball Bearing Rail Kit 720864-B21

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

HPE 2U Cable Management Arm for Ball Bearing Rail Kit 720865-B21

HPE Other Options

HPE Rack LED Light Kit BW939A

HP Kit LCD 1.83m Latch Display Port Cable G7T29A

HPE Uninterruptible Power Systems (UPS)

HPE DirectFlow Three Phase UPS

Power Unit (1U UPS)

HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System G9Y75A

HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System AF478A

HPE RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System AF437A

Input/Output Module Options for 1U UPS

HPE 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 Input/Output Module AF488A

HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module AF489A

HPE 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module AF490A

HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module AF491A

HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module AF492A

HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module G9Y76A

HPE DirectFlow UPS Management Card AF493A

Additional Options

Power Unit (2U UPS)

HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power System AF479A

Input/Output Module Options for 2U UPS

HPE 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309 Input/Output Module AF483A

HPE 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated Input/Output Module AF485A

HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module AF486A

HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module AF487A

HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module D9Q02A

HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module AF484A

NOTE: All Input/Output Modules support dual output outlets except the AF484A.

Battery Pack Options

HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack AF480A

HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack AF482A

HPE WW DirectFlow Secondary Battery Cable AF497A

NOTE: Please see the [HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs](#) for information on additional options and product specifications.

HPE Tower UPS

HPE T750 G4 UPS Models

HPE T750 G4 NA/JP Uninterruptible Power System J2P85A

HPE T750 G4 INTL Uninterruptible Power System J2P88A

HPE T1000 G4 UPS Models

HPE T1000 G4 NA/JP Uninterruptible Power System J2P86A

HPE T1000 G4 INTL Uninterruptible Power System J2P89A

HPE T1500 G4 UPS Models

HPE T1500 G4 NA/JP Uninterruptible Power System J2P87A

HPE T1500 G4 INTL Uninterruptible Power System J2P90A

HPE Rack-mountable UPS

HPE R/T2200 G4 UPS Models

HPE R/T2200 G4 NA/JP Uninterruptible Power System J2R00A

HPE R/T3000 G4 UPS Models

HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System J2R01A

HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System J2R02A

HPE R/T3000 G4 High Voltage INTL Uninterruptible Power System J2R04A

R1500 G4 Models

HPE R1500 G4 NA Uninterruptible Power System J2Q99A

HPE R1500 G4 JP/TWN Uninterruptible Power System J2R05A

HPE R1500 G4 INTL Uninterruptible Power System J2R03A

R7000 Uninterruptible Power System (UPS)

HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System AF462A

HPE R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System AF463A

Additional Options

R5000 Uninterruptible Power System (UPS)

HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A

HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System AF461A

NOTE: Please see the [HPE Line Interactive Single Phase UPS QuickSpecs](#) for information on additional options and product specifications.

HPE UPS Options

HPE R/T2200 G4 Extended Runtime Module J2R09A

HPE R/T3000 G4 Extended Runtime Module J2R10A

HPE 2U Rack/Tower UPS Shipping Kit L4Q11A

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

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HPE 32GB microSD Mainstream Flash Media Kit 700139-B21

HPE 8GB microSD Enterprise Mainstream Flash Media Kit 726116-B21

HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit 737953-B21

HP Dual 8GB microSD Enterprise Midline USB Kit 741279-B21

HPE Support Services

Installation & Start-up Services

HPE Install ProLiant DL38x(p) Service U4554E

HPE Installation and Startup DL38x(p) Service U4555E

Proactive Care

HPE 3 year Proactive Care 24x7 DL380 Gen9 w/IC Service U5HW1E

HPE 3 year Proactive Care 24x7 with DMR DL380 Gen9 w/IC Service U5HW2E

HPE 3 year Proactive Care 24x7 with CDMR DL380 Gen9 w/IC Service U5HW3E

HPE 3 year Proactive Care Call to Repair DL380 Gen9 w/IC Service U5HX0E

HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL380 Gen9 w/IC Service U5HX1E

HPE 3 year Proactive Care Call to Repair with CDMR DL380 Gen9 w/IC Service U5HX2E

HPE 3 year Proactive Care 24x7 DL380 Gen9 Service U7AE8E

HPE 3 year Proactive Care 24x7 with DMR DL380 Gen9 Service U7AE9E

HPE 3 year Proactive Care 24x7 with CDMR DL380 Gen9 Service U7AF0E

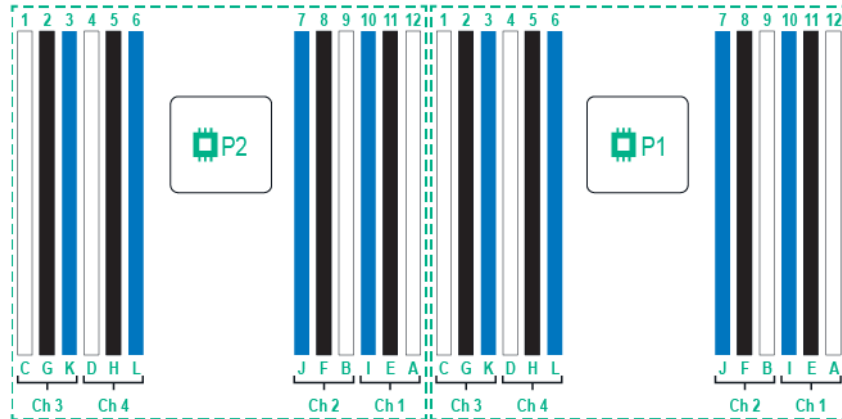
HPE 3 year Proactive Care Call to Repair DL380 Gen9 Service U7AF4E

HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL380 Gen9 Service U7AF5E

HPE 3 year Proactive Care Call to Repair with CDMR DL380 Gen9 Service U7AF6E

Memory

Memory Population guidelines



| | 1st slot of channel | 2nd slot of channel | 3rd slot of channel |
|----------------------------|---------------------|---------------------|---------------------|
| | A B C D | E F G H | I J K L |
| Number of DIMMs to install | 4 | 8 | 12 |

General Memory Population Rules and Guidelines:

- White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- A minimum of one DIMM is required per server.
- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors and to load the channels similarly whenever possible.
- When two processors are installed, balance the DIMMs across the two processors.
- Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel. Heaviest load (DIMM with most ranks) within a channel goes furthest from the processor.
- Do not mix RDIMMs or LRDIMMs.
- LRDIMMs are supported up to 3 DIMMs per channel.
- DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the memory type and number of installed processors.
- HPE memory from previous generation servers is not compatible with the DL380 Gen9 Server. Certain HPE SmartMemory features such as memory authentication and enhanced performance may not be supported.
- To realize the performance memory capabilities listed in this document, HPE SmartMemory is required. For additional information, please see the HPE SmartMemory QuickSpecs at: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111535>.
- For memory population rules and additional memory guidelines, please see the DL380 Gen9 user guide at <http://www.hp.com/support>.

Memory

- There are four (4) Memory channels per processor; eight (8) channels per 2 processor server.
- There are three (3) DIMM slots for each memory channel; twenty four (24) total slots for 2 processor server.
- Memory channels 1 and 3 consists of the three (3) DIMMs that are furthest from the processor.
- Memory channel 2 and 4 consists of the three (3) DIMMs that are closest to the processor.

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v3 Series Processor Family

| Memory Bandwidth and Capacity | | | | | | | | |
|-------------------------------|---------------------------|------------------|------------------|------------------|------------------|------------------------|------------------|------------------|
| [DIMM Type] | Registered DIMMs (RDIMMs) | | | | | Load Reduced (LRDIMMs) | | |
| HPE SKU P/N | 726717-B21 | 726718-B21 | 759934-B21 | 726719-B21 | 728629-B21 | 726720-B21 | 726722-B21 | 726724-B21 |
| DIMM Rank | Single Rank | Single Rank | Dual Rank | Dual Rank | Dual Rank | Dual Rank | Quad Rank | Quad Rank |
| DIMM Capacity | 4GB | 8GB | 8GB | 16GB | 32GB | 16GB | 32GB | 64GB |
| Voltage | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V |
| DRAM Depth [bit] | 512M | 1G | 512M | 1G | 1G | 2G | 2G | 2G |
| DRAM Width [bit] | x8 | x4 | x8 | x4 | x4 | x4 | x4 | x4 |
| DRAM Density | 4Gb | 4Gb | 4Gb | 4Gb | 4Gb | 8Gb | 8Gb | 8Gb |
| CAS Latency | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 |
| DIMM Native Speed (MT/s) | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 |
| SLOTS THAT CAN BE POPULATED | | | | | | | | |
| 24 slot servers | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| MAXIMUM CAPACITY (GB) | | | | | | | | |
| | 96 | 192 | 192 | 384 | 768 | 384 | 768 | 1536 |
| POPULATED DIMM SPEED (MT/s) | | | | | | | | |
| 1 DIMM Per Channel | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 |
| 2 DIMM Per Channel | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 |
| 3 DIMM Per Channel | 1600 | 1600 | 1600 | 1600 | 1600 | 1866 | 1866 | 1866 |

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v4 Series Processor Family

| Memory Bandwidth and Capacity | | | | | | | |
|-------------------------------|---------------------------|-------------|------------|------------|------------------------|------------|------------|
| [DIMM Type] | Registered DIMMs (RDIMMs) | | | | Load Reduced (LRDIMMs) | | |
| HPE SKU P/N | 805347-B21 | 805349-B21 | 836220-B21 | 805351-B21 | 805353-B21 | 805358-B21 | 809208-B21 |
| DIMM Rank | Single Rank | Single Rank | Dual Rank | Dual Rank | Dual Rank | Quad Rank | Octal Rank |

Memory

| | | | | | | | |
|------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DIMM Capacity | 8GB | 16GB | 16GB | 32GB | 32GB | 64GB | 128GB |
| Voltage | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V |
| DRAM Depth [bit] | 1G | 2G | 1G | 2G | 2G | 2G | 2G |
| DRAM Width [bit] | x8 | x4 | x4 | x4 | x4 | x4 | x4 |
| DRAM Density | 8Gb | 8Gb | 4Gb | 8Gb | 8Gb | 8Gb | 8Gb |
| CAS Latency | 17-17-17 | 17-17-17 | 17-17-17 | 17-17-17 | 17-17-17 | 17-17-17 | 20-18-18 |
| DIMM Native Speed (MT/s) | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 |
| SLOTS THAT CAN BE POPULATED | | | | | | | |
| 24 slot servers | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| MAXIMUM CAPACITY (GB) | | | | | | | |
| | 192 | 384 | 384 | 768 | 768 | 1536 | 3072 |
| POPULATED DIMM SPEED (MT/s) | | | | | | | |
| 1 DIMM Per Channel | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 |
| 2 DIMM Per Channel | 2133 | 2133 | 2400 | 2400 | 2400 | 2400 | 2400 |
| 3 DIMM Per Channel | 1866 | 1866 | 1866 | 1866 | 2400 | 2400 | 2400 |

NOTE: Mixing the 128GB LRDIMM with other capacities is not supported.

| Memory Speed by Processor Model | Processor Models | Supported Memory Speeds |
|---------------------------------|--|-------------------------|
| | E5-2609v3, E5-2603v3 | 1600MT/s |
| | E5-2630Lv3, E5-2640v3, E5-2630v3, E5-2623v3, E5-2620v3 | 1866MT/s |
| | E5-2637v3, E5-2687Wv3, E5-2699v3, E5-2698v3, E5-2697v3, E5-2695v3, E5-2690v3, E5-2683v3, E5-2680v3, E5-2670v3, E5-2660v3, E5-2650Lv3, E5-2650v3, E5-2667v3, E5-2643v3 | 2133MT/s |
| | E5-2609v4, E5-2603v4 | 1866MT/s |
| | E5-2630Lv4, E5-2623v4, E5-2620v4, E5-2640v4, E5-2630v4 | 2133MT/s |
| | E5-2650Lv4, E5-2643v4, E5-2637v4, E5-2687Wv4, E5-2699v4, E5-2698v4, E5-2697v4, E5-2697Av4, E5-2695v4, E5-2690v4, E5-2683v4, E5-2680v4, E5-2660v4, E5-2650v4, E5-2667v4, E5-2699Av4 | 2400MT/s |

Memory

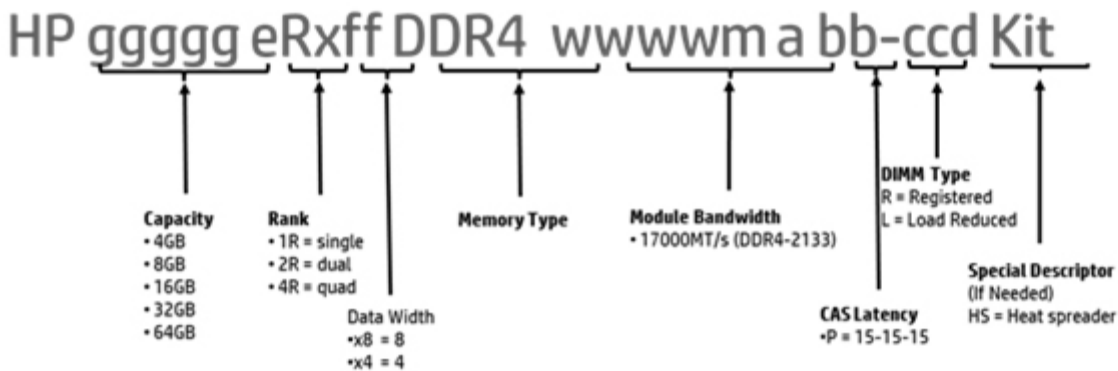
Standard and Maximum Memory Capacity (Pre-configured Models)

| Pre Configured Models | Standard Memory | Maximum Memory Plus Optional Memory | Standard Memory Replaced with Optional Memory |
|-----------------------|-----------------|-------------------------------------|---|
| E5-2690v3, E5-2650v3 | 32GB (2x16GB) | 736GB (22x32GB, 2x16GB) | 1536GB (24x64GB) |
| E5-2660v4 | 64GB (4x16GB) | 704GB (20x32GB, 4x16GB) | 3072GB (24x128GB) |
| E5-2650v4 | 32GB (2x16GB) | 736GB (22x32GB, 2x16GB) | 3072GB (24x128GB) |
| E5-2630v4, E5-2620v4 | 16GB (1x16GB) | 752GB (23x32GB, 1x16GB) | 3072GB (24x128GB) |
| E5-2620v3 | 16GB (1x16GB) | 752GB (23x32GB, 1x16GB) | 1536GB (24x64GB) |
| E5-2609v4 | 8GB (1x8GB) | 744GB (23x32GB, 1x8GB) | 3072GB (24x128GB) |
| E5-2609v3 | 8GB (1x8GB) | 744GB (23x32GB, 1x8GB) | 1536GB (24x64GB) |

DDR4 memory options part number decoder

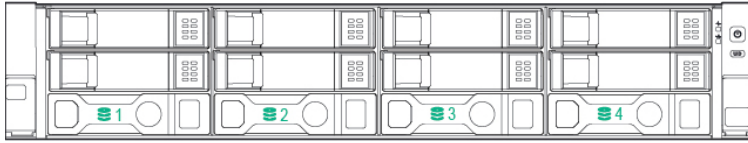
NOTE: Capacity references are rounded to the common gigabyte (GB) values.

- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB
- 128GB = 13,072MB



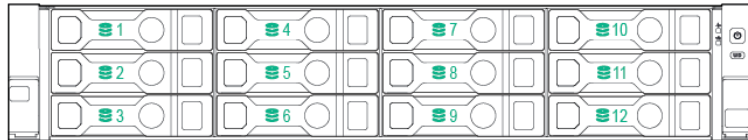
Storage

4 LFF hot-plug drive model

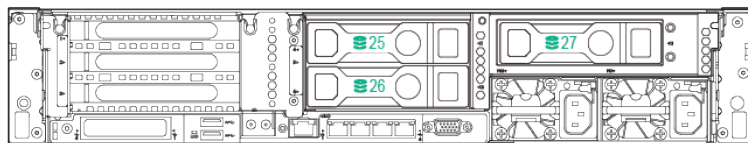


1-4 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays

12 LFF + 3 rear LFF hot-plug drive model

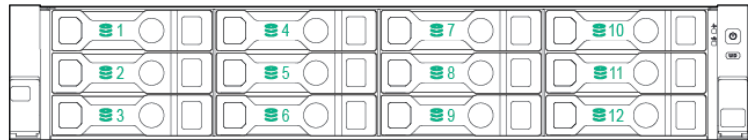


1-12 12 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays

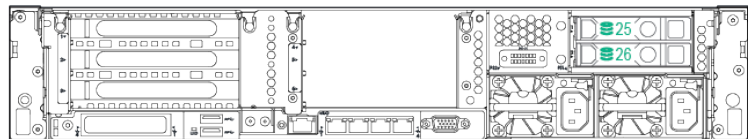


25-27 3 x LFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays

12 LFF + 2 rear SFF hot-plug drive model

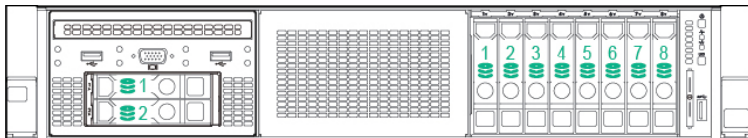


1-12 12 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays



25-26 2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays

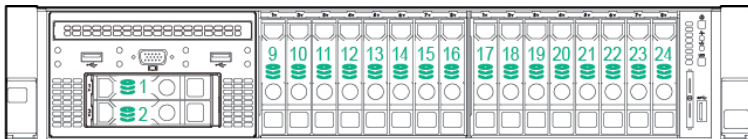
8 SFF (+2 SFF) hot-plug drive model with Universal Media Bay



1-8 8 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays

1-2 2 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays

16 SFF (+2 SFF) hot-plug drive model with Universal Media Bay

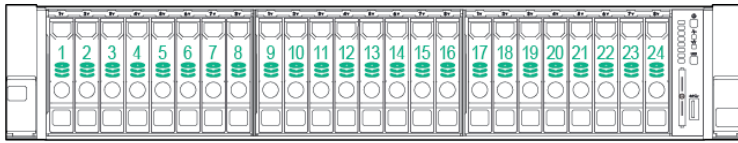


9-24 16 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays

1-2 2 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays

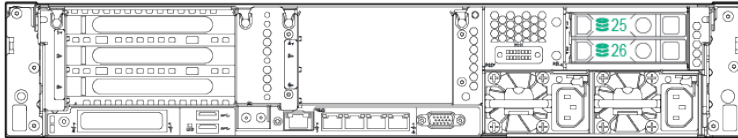
Storage

24 SFF + rear 2 SFF hot-plug drive model



1-24 24 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays

25-26 2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays



NOTE: Drives behind the SAS expander will be labeled continuous, drives behind a controller will be numbered 1-8.

NOTE: With a SAS Expander and rear drive support the 2SFF rear will be labeled 25 & 26, for 3LFF they will be numbered 25-27.

Technical Specifications

| | | |
|--------------------|--|--|
| System Unit | Dimensions | SFF Drives: 3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm) LFF Drives: 3.44 x 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm) |
| | Weight (approximate) | Minimum: 32.6 lb (14.759 kg) (Minimum - 8SFF chassis with 1xSFF HDD and 7 HDD blanks, 1x processor, 1x power supply (plus blank), 1x Flexible Smart Array, 1x Riser installed) Maximum: 51.5 lb (23.6 kg) (Maximum - 12 LFF hard drives (No rear drives), 2x processors, 2x power supplies, 1x Flexible Smart Array, 2x Risers installed) |
| | Input Requirements (per power supply) | Rated Line Voltage 100 to 120 VAC 200 to 240 VAC |
| | BTU Rating | Maximum For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only |
| | Power Supply Output (per power supply) | Rated Steady-State Power For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC) For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only Maximum Peak Power For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only |
| | System Inlet Temperature | Standard Operating Support 10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F). |

Technical Specifications

| | | |
|--------------------------|------------------------------------|---|
| | Extended Ambient Operating Support | <p>For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:</p> <p>http://www.hpe.com/servers/ashrae</p> |
| | | <p>For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:</p> <p>http://www.hpe.com/servers/ashrae</p> |
| | | <p>System performance may be reduced if operating in the extended ambient operating range or with a fan fault.</p> |
| Relative Humidity | Non-operating | -30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr). |
| | Operating | Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity. |
| (non-condensing) | Non-operating | 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing. |
| Altitude | Operating | 3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min). |
| | Non-operating | 9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min). |
| Acoustic Noise | | Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). |
| | | Idle |
| | LWAd | 4.0 B Entry LFF 4.1 B Entry 4.2 B Base 5.7 B Base LFF 4.3 B Perf |
| | LpAm | 23 dBA Entry LFF 24 dBA Entry 24 dBA Base |

Technical Specifications

39 dBA Base LFF

25 dBA Perf

Operating

| | |
|------|------------------|
| LWAd | 4.3 B Entry LFF |
| | 4.6 B Entry |
| | 4.8 B Base |
| | 5.9 B Base LFF |
| LpAm | 5.6 B Perf |
| | 25 dBA Entry LFF |
| | 29 dBA Entry |
| | 30 dBA Base |
| | 31 dBA Base LFF |
| | 39 dBA Perf |

NOTE: The Listed sound levels apply to standard shipping configurations (Entry LFF, Entry, Base, Base LFF and Performance models) additional options may result in increased sound levels. The Base LFF model leverages our High Efficiency Fans, other models are shipping with standard fan options.

Emissions Classification (EMC)

| | |
|---------------------|---|
| FCC Rating | Class A |
| Normative Standards | CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; 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, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

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

| | | |
|---|---|--------------------------------|
| HPE Dynamic Smart Array B140i Controller | Number of PCI links | Four |
| | PCI link rate | 4Gb/s |
| | Storage protocol support | SATA |
| | SAS/SATA peak data transfer rate | 6Gb/s |
| | Number of SAS/SATA links | 10 links |
| | SAS/SATA connectivity | 2x4 connectors; 2x1 connectors |
| | Expander support | No |
| | Drives supported (max) | Up to 10 Internal Drives |
| | RAID support | 0, 1, 10, 5 SATA |
| | Software management | HPE SSA, SMH, SIM |
| | Warranty | Server warranty |
| | HPE Secure Encryption license | Not Supported |
| | HPE SmartCache License | Not Supported |
| | HPE Smart Storage | Supported |

Technical Specifications

Administrator

| | | | | |
|---|------------------------------|--|--------------------------------------|--|
| HPE Ethernet 1Gb 4-port 331i Adapter | Network Interface | 10Base-T/100Base-TX/1000Base-TX | | |
| | Compatibility | IEEE 802.3 10Base-T | | |
| | | IEEE 802.3ab 1000Base-T | | |
| | | IEEE 802.3u 100Base-TX | | |
| | Data Transfer Method | PCI Express, two lanes (x2) | | |
| | Controller | BCM5719 | | |
| | Network Transfer Rate | 10Base-T (Half-Duplex) | 10 Mb/s per port, 40 Mb/s combined | |
| | | 10Base-T (Full-Duplex) | 20 Mb/s per port, 80 Mb/s combined | |
| | | 100Base-TX (Half-Duplex) | 100 Mb/s per port, 400 Mb/s combined | |
| | | 100Base-TX (Full-Duplex) | 200 Mb/s per port, 800 Mb/s combined | |
| 1000Base-TX (Half and Full-Duplex) | | 1000 Mb/s per port, 4000 Mb/s combined | | |
| 1000Base-TX (Full-Duplex) | | 2000 Mb/s per port, 8000 Mb/s combined | | |
| Connector | Four RJ-45 | | | |
| Cable Support | 10 Base-T | Categories 3, 4 or 5 UTP; up to 328 ft (100 m) | | |
| | 10/100/1000 Base-TX | Category 5 or higher UTP; up to 328 ft (100 m) | | |

Environment-friendly Products and Approach

End-of-life Management and Recycling

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

<http://www.hpe.com/recycle>

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

<http://www.hpe.com/recycle>

Summary of Changes

| Date | Version History | Action | Description of Change |
|-------------|-----------------------|---------|--|
| 5-Jun-2017 | From Version 30 to 31 | Added | Added new Solid State Drives offering to the HPE Drives section. Added new GPU option. |
| 8-May-2017 | From Version 29 to 30 | Added | Support for ClearOS was added under Operating Systems and Virtualization Software Support for ProLiant Servers and Optional Features sections. Added new HPE Computation and Graphics Accelerators options. |
| | | Changed | HPE Unique Options section was revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 3-Apr-2017 | From Version 28 to 29 | Changed | Smart Buy models section was revised for the NA version only. |
| 27-Mar-2017 | From Version 27 to 28 | Added | Added new Hard Drives and new HPE Networking option. |
| | | Changed | Base Configuration, HPE Unique Options, HPE Computation and Graphics Accelerators, and HPE Storage Options were revised. |
| 17-Feb-2017 | From Version 26 to 27 | Changed | HPE Memory section under Core Options was revised. |
| 13-Feb-2017 | From Version 25 to 26 | Added | Added new HDD and SSD offering to HPE Drives section. |
| | | Changed | Processors and Memory under Standard Features were revised. Storage Software, HPE Unique Options, HPE Processors, and HPE Memory were revised. |
| 16-Dec-2016 | From Version 24 to 25 | Added | Availability note was added to the HPE Drives section. |
| | | Changed | Overview, Storage Software, and HPE Computation and Graphics Accelerators were revised. |
| 28-Nov-2016 | From Version 23 to 24 | Added | Added new NVIDIA Tesla M10 and P100 cards new Virtualization and High-End General Compute GPU offering. Added new LFF HDDs up to 10TB capacity now bring the DL380 max storage capacity to 150TB SAS. Added new Fiber Channel HBA's up to 32Gb. Added new E5-2699Av4 processor. |
| | | Changed | Processors, Memory, Maximum Internal Storage, HPE Drives, HPE Computation and Graphics Accelerators, and HPE Storage Options were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 28-Oct-2016 | From Version 22 to 23 | Removed | Obsolete Hard Drives were removed from the QuickSpecs. |
| 26-Sep-2016 | From Version 21 to 22 | Added | Added new NVIDIA Tesla M4/M40 GPUs and new 10TB LFF hard drives offering. |
| | | Changed | Memory, Maximum Internal Storage, HPE |

Summary of Changes

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|-------------|-----------------------|---------|--|
| | | | Computation and Graphics Accelerators, and HPE Storage Options were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 19-Aug-2016 | From Version 20 to 21 | Changed | Smart Buy models section was revised for the NA version only. |
| 15-Aug-2016 | From Version 19 to 20 | Added | Added new options to HPE Networking, HPE Infiniband, HPE Computation and Graphics Accelerators, HPE Disk Backup, and HPE Storage Options. |
| | | Changed | HPE Unique Options was revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 8-Jul-2016 | From Version 18 to 19 | Changed | Smart Buy models section was revised for the NA version only. |
| 6-Jun-2016 | From Version 17 to 18 | Added | Added new 25GbE networking options, OneView 3.0, and new NVIDIA Quadro GPU options. |
| | | Changed | Pre-configured Models, HPE Memory, HPE Drives, HPE Computation and Graphics Accelerators, HPE Disk Backup, and HPE Storage Options were updated. |
| 29-Apr-2016 | From Version 16 to 17 | Changed | E5-2600v4 Series Smart Buy Models table was updated in the NA version only. |
| 1-Apr-2016 | From Version 15 to 16 | Changed | What's New section was updated. Standard Features/Memory and HPE Memory sections were revised. |
| 31-Mar-2016 | From Version 14 to 15 | Added | Added new Smart Memory DDR4 2400MHz, Intel Xeon E5-2600v4 processor support, new Flexible Smart Array P840ar controller, new graphic options, new HPE Trusted Platform Module (TPM) 2.0, new HDD offering. |
| | | Changed | Embedded Management, Service and Support, Preconfigured Models, HPE Security, and Memory sections were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 16-Feb-2016 | From Version 13 to 14 | Added | New HDD offering was added to HPE Drives. |
| | | Changed | HPE Computation and Graphics Accelerators, HPE Data Center Racks, and HPE Power Distribution Units (PDUs) were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 17-Dec-2015 | From Version 12 to 13 | Changed | Smart Buy models section was revised in the NA version only. |
| 1-Dec-2015 | From Version 11 to 12 | Added | New HDD offering was added to HPE Drives. New options added to Graphics Options, HPE PCIe Workload Accelerator Options, and HPE Tape Backup. |
| | | Changed | On System Management Chipset, Maximum Internal Storage, Embedded Management, and Server utilities were revised. Product images were updated. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| | | Added | Added new 6Gb SATA Solid State Drives. |
| 28-Sep-2015 | From Version 10 to 11 | Added | Added new 6Gb SATA Solid State Drives. |

Summary of Changes

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| | | | Added new HPE OneView management software. |
| | | Changed | Maximum Internal Storage was revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 17-Aug-2015 | From Version 9 to 10 | Added | Added new Solid State Drives offering. Added new graphic options. |
| | | Changed | What's New changed to: New support for NVMe PCIe SSDs New Graphic card options Service and Support section was updated. Maximum Internal Storage and Core Options were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 1-Jun-2015 | From Version 8 to 9 | Added | New larger capacity HDDs (up to 8TB LFF), Max capacity 120TB were added. New higher capacity memory (64GB), Max capacity 1.5TB was added. New Networking options were added. Optional Software added to HPE Storage Controllers. |
| | | Changed | Updated max HDD and memory capacity due to new options added. HPE SmartCache Software, HPE Disk Backup System, HPE Uninterruptible Power Systems (UPS) were updated. |
| 30-Mar-2015 | From Version 7 to 8 | Added | New Hard Drives offering. Optical Software added to HPE Storage Controllers. Added new HPE Care Pack Services. Added new HPE PCIe Workload Accelerator Options. |
| | | Changed | What's New, Standard Features, Unique Options, Power Supplies, HPE Storage Controllers, HPE Disk Storage Systems, and Technical Specifications were revised. |
| | | Removed | Removed obsolete HPE Care Pack Services. |
| 17-Feb-2015 | From Version 6 to 7 | Added | Added Smart Buy Models to the NA version only. |
| 9-Feb-2015 | From Version 5 to 6 | Added | What's new section was added. Added new HDD offering, new computational Graphics options, and new G4 UPS models. |
| | | Changed | HPE Drives, HPE Computation and Graphics Accelerators, HPE Tape Backup, HPE Disk Backup, HPE Rack Mount, Consoles, KVM Switches, and Keyboards, and HPE Uninterruptible Power Systems (UPS) sections were revised. |
| 1-Dec-2014 | From Version 4 to 5 | Changed | Changes made throughout the entire QuickSpecs. |

Summary of Changes

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|-------------|---------------------|---------|--|
| 13-Oct-2014 | From Version 3 to 4 | Changed | Corrected inconsistencies between Product Bulletin and Concentra versions. |
| 13-Oct-2014 | From Version 2 to 3 | Added | 6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section. HPE PCIe Workload Accelerator Options, HPE USB and SD options, and HPE Care Pack Services were added to the Additional Options section. |
| | | Changed | Standard Features, Optional Features, Pre-Configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised. |
| 19-Sep-2014 | From Version 1 to 2 | Changed | Changes were made throughout the QuickSpecs. |



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

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