

Overview

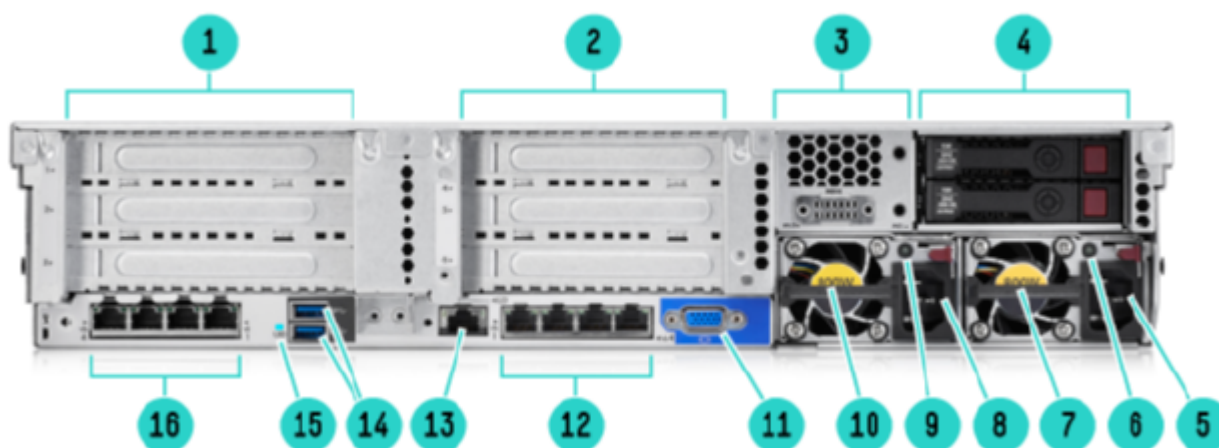
HPE ProLiant DL380 Generation9 (Gen9)

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

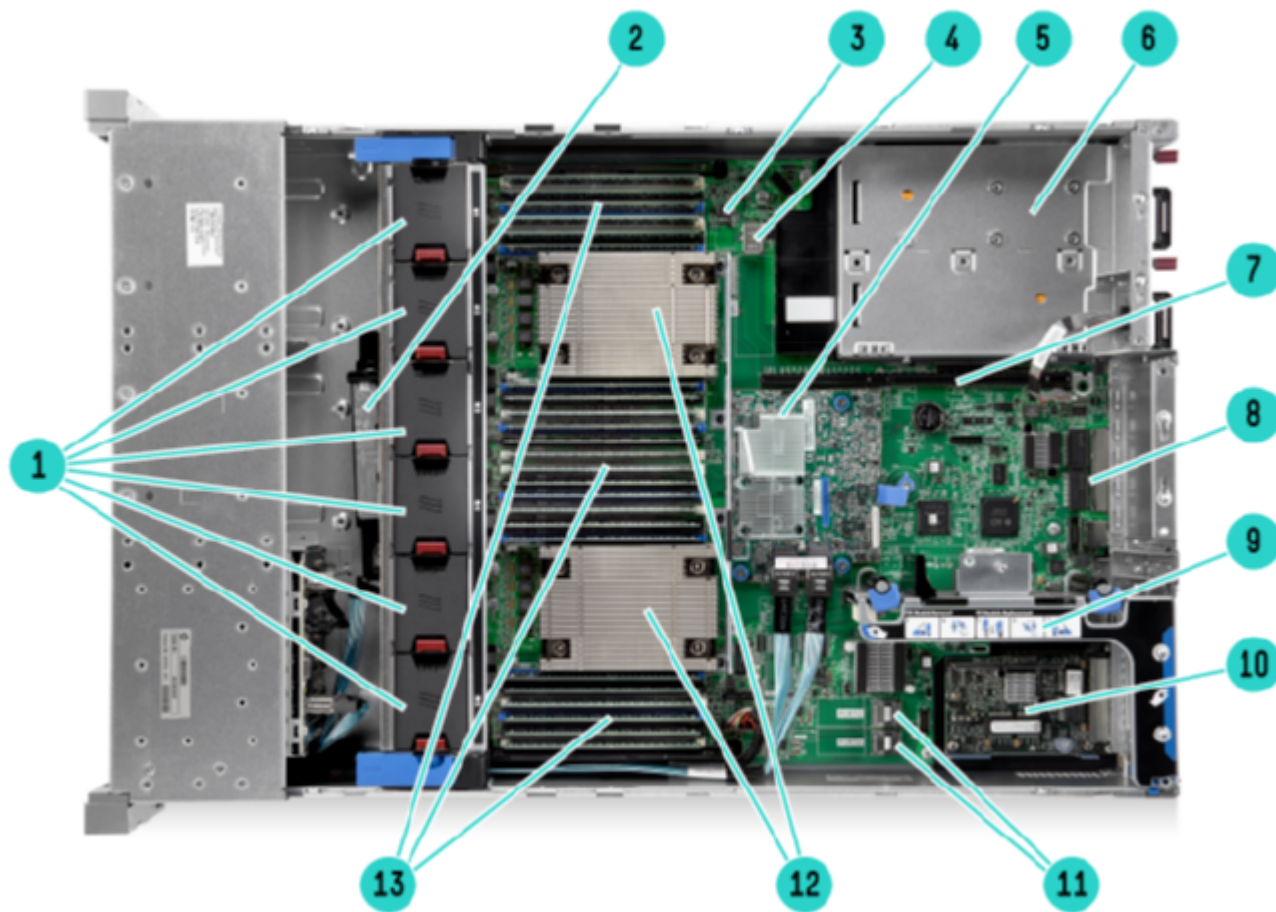
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|--|---|
| 1 Quick removal access panel | 2 Universal Media bay. 2 USB 2.0 and VGA standard (8SFF bay optional) |
| 3 Optional Optical drive. Requires Universal Media bay | 4 Optional 2 SFF HDD, blank shown. Requires Universal Media bay |
| 5 Drive 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 | |



Rear view

Overview

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|----|---|----|---|
| 1 | PCI Slots (Slots 1-3 top to bottom, riser shipped standard) | 2 | PCI Slots (Slots 4-6 top to bottom, requires second riser card, and second processor) |
| 3 | Optional serial port | 4 | Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end) |
| 5 | Power supply Power connection | 6 | Power supply Power LED |
| 7 | HPE Flexible Slot Power Supply bay 2 (800w shown) | 8 | Power supply Power connection |
| 9 | Power supply Power LED | 10 | HPE Flexible Slot Power Supply bay 1 (800w shown) |
| 11 | VGA connector | | NOTE: Optional Micro UPS option. |
| 13 | Dedicated iLO connector | 12 | Embedded 4x1GbE Network Adapter |
| 15 | Unit ID LED | 14 | USB 3.0 connectors (2) |
| | | 16 | Optional FlexibleLOM ports (Shown: 4x1GbE) |



Internal View

Overview

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|----|---|----|--|
| 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 |
| 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 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 Flexible LOM 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

- Intel E5-2600v4 Processors
- HPE Smart Memory DDR4 2400MHz
- 128GB HPE Smart Memory (Shipping in H1 2016)
- HPE Persistent Memory, offering unprecedented levels of performance for databases and analytic workloads (Shipping in Q2/3 2016)
- HPE Flexible Smart Array P840ar controller
- New NVIDIA Quadro GPU options
- Enhanced security with TPM 2.0

Standard Features

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

Processor	Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
Up to two of the following depending on model	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	

Standard Features

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
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

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.

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/
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On System Management Chipset	HPE iLO (Firmware HPE iLO4 2.0 or later), 4GB NAND NOTE: 1GB USB user space configurable via UEFI and accessible via iLO. Read and learn more in the iLO QuickSpecs .
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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 3TB (24 x 128GB LRDIMM @2400MHz)* (LRDIMM) Maximum Capacity 768GB (24 x 32GB RDIMM @2400MHz) (RDIMM) Maximum Capacity 128GB (16 x 8GB NVDIMM)* (NVDIMM) <ul style="list-style-type: none"> • Note the NVDIMM and 128GB memory will be shipping later in Q2/3 2016 • NVDIMM support only with the E5-2600v4 processors
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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.
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Expansion Slots

Standard Features

Primary Riser (Standard)	Expansion Technology Slots #	Bus Width	Connector Width	Bus Number	Form Factor	Notes	
	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 Technology Slots #	Bus Width	Connector Width	Bus Number	Device 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 Technology Slots #	Bus Width	Connector Width	Bus Number	Device 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

Storage Controller One of the following depending on model	Entry Models	HPE Dynamic Smart Array B140i Controller 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 Flexible Smart Array P840ar/4G FIO 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 Hard Drive Bays	None ship standard 8 SFF with optional Universal Media bay, 8SFF bay or 6NME 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 CTO Server also supports 2 SFF rear which allows for the second riser. NOTE: The 6 NVMe drive option can only be leveraged in the SFF CTO Server and replaces Bay 2. 4 LFF drive bays total NOTE: The Universal Media Bay (724865-B21) not available with the LFF CTO Server or the 24SFF CTO Server, 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 13 the last to be populated for a field upgrade to 24 SFF. NOTE: The 4LFF CTO Server cannot be upgraded to 12LFF in the field. NOTE: All Pre-configured models come with an embedded 10-Port SATA controller. Optional HPE Flexible Smart Array and Smart SAS HBA Controllers can be added.

Standard Features

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		120.0TB	12+3 x 8TB (with optional rear LFF drive cage)
Hot Plug LFF SATA		120.0TB	12+3 x 8TB (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 SSD	12TB NVMe + 36TB SFF	6x2TB NVMe plus 36TB with 18 SFF (Bay 1, bay 3 and optional rear drive support)	

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 Battery Backup Unit Kits

NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration.

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 (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the [ProLiant Power Cables](#) web page.

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

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

Standard Features

System Fans	Non-redundant	Redundant
<p>One of the following depending on model</p>	<p>2P model</p> <p>NOTE: 1P models typically ship with 4 standard fans. The second processor option kit contains 2 additional fans.</p> <p>NOTE: The 12LFF and 24SFF models ship with 6 High Performance fans as standard.</p> <p>NOTE: High Performance Fan Kit is available to meet ambient temperature environments.</p> <p>NOTE: High Performance Fan Kit is required for Passive GPU support.</p> <p>NOTE: The 8SFF Bay1 kit (719067-B21) will ship with 6 High efficiency fans.</p>	<p>6 fans</p>

<p>Interfaces</p>	<p>Serial Video</p> <p>FlexibleLOM Network Ports</p> <p>HPE iLO Remote Management Network Port</p> <p>Micro SD Slot</p> <p>USB 3.0</p> <p>SID (Systems Insight Display)</p>	<p>Optional</p> <p>2 (1 front, optional via Universal Media Bay, 724865-B21), 1 back not active simultaneously</p> <p>4 x 1Gb ports shipping standard with optional FlexibleLOM</p> <p>1 Gb Dedicated</p> <p>1 Micro SD</p> <p>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.</p> <p>Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay</p> <p>Optional</p> <p>NOTE: Not shipping as standard. Available as a factory integratable option or as a field upgrade (768900-B21).</p>
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<p>Operating Systems and Virtualization Software Support for ProLiant Servers</p>	<p>Microsoft Windows Server</p> <p>Canonical Ubuntu</p> <p>Red Hat Enterprise Linux (RHEL)</p> <p>SUSE Linux Enterprise Server (SLES)</p> <p>Oracle Solaris</p> <p>VMware</p> <p>Citrix XenServer</p> <p>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.hp.com/hpsc/swd/public/readIndex?sp4ts.oid=7271242.</p>
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Standard Features

Upgradeability	<p>Upgradeable to two processors (36 Cores)</p> <p>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.</p> <p>Up to 24 DIMM slots available for higher Memory capacity</p> <p>FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options</p> <p>HPE Flexible Smart Array or Smart HBA Controllers</p> <p>Embedded 10-Port SATA, B140i as standard</p> <p>Optional 3 slot riser (x16, x16, x8), or 2 slot primary riser (x16, x8)</p> <p>NOTE: To take advantage of the additional 3 PCI slot upgrade, the second processor must be installed.</p> <p>Redundant Power Supply</p> <p>Optical Drive supported via Universal Media Bay</p> <p>NOTE: The Universal Media bay provides front VGA and 2xUSB 2.0, plus ability to add 2SFF and Optical.</p> <p>NOTE: Universal Media bay is only available with 8 or 8+8SFF models & can be populated in Bay1 only.</p> <p>HPE Legacy Mode (FIO only, 758959-B22)</p> <p>NOTE: UEFI is the default mode for all models. Can change default to legacy via factory integratable option.</p>
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Industry Standard ACPI 2.0b Compliant

Compliance	<p>PCIe 3.0 Compliant</p> <p>PXE Support</p> <p>WOL Support</p> <p>Microsoft® Logo certifications</p> <p>USB 3.0 Support</p> <p>USB 2.0 Support</p> <p>NOTE: This support is on the optional Universal Media Bay.</p> <p>Energy Star</p> <p>ASHRAE A3/A4</p> <p>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.hp.com/servers/ASHRAE.</p> <p>UEFI (Unified Extensible Firmware Interface Forum)</p> <p>NOTE: UEFI is the default for the DL380 Gen9. Legacy model can be selected in the field or as a factory integrated option (758959-B22).</p>
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Graphics	<p>Integrated Matrox G200eH2 video standard with 16MB of Video RAM</p> <ul style="list-style-type: none">● 1280 x 1024 (32 bpp)● 1920 x 1200 (16 bpp) <p>HPE iLO 4 On System Management Memory</p> <ul style="list-style-type: none">● 16 MB Flash● 256 MB DDR3 with ECC (112 MB after ECC and video)
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Standard Features

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:
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 Monitor your servers for ongoing management, service alerting, Lights-Out (HPE iLO) 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 The Hewlett Packard Enterprise embedded remote support, when

Standard Features

Remote Support 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>.

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

Standard Features

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
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Warranty	<p>This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of Hewlett Packard Enterprise 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.</p>
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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://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>.

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 .
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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 .
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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 .
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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 .
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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 .
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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 .
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Optional Features

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:

- **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**
With HPE StoreVirtual VSA you can use the power of virtualization to create a virtual array within your host server. Manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. HPE ProLiant Gen9 servers include a 3-year limited license for HPE StoreVirtual VSA software with 1TB of capacity at no extra cost. Simply select to install HPE StoreVirtual VSA software during server setup within Intelligent Provisioning. More information, instructional videos, and free console management software are available at <http://www.hp.com/go/vsa1TB>.

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

One Config Simple (SCE)

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

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 – HP 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 Hewlett Packard Enterprise servers.
<http://h20195.www2.hp.com/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 Hewlett Packard Enterprise servers.
<http://h20195.www2.hp.com/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.

Service and Support

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.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf>

HPE Installation and Startup Service

Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems, 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	8487	
Model Name	HP ProLiant DL380 Gen9 E5-2609v3 1P 8GB-R B140i 4LFF SATA 500W PS Entry Server	HP ProLiant DL380 Gen9 E5-2609v3 1P 8GB-R B140i 8SFF SATA 500W PS Entry Server	HPE ProLiant DL380 Gen9 E5-2609v4 1P 8GB-R B140i 8SFF 500W PS Entry Server	HP ProLiant DL380 Gen9 E5-2620v3 2.4GHz 6-core 1P 16GB-R P840/4GB 12LFF 2x800W PS Base Server	HP ProLiant DL380 Gen9 E5-2620v3 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 E5-2620v4 1P 16GB-R P440ar 12LFF 2x800W PS Base Server	HPE ProLiant DL380 Gen9 E5-2620v4 1P 16GB-R P440ar 12LFF 2x800W PS Base Server	
Processor	Intel® Xeon® E5-2609v3	Intel® Xeon® E5-2609v4	Intel® Xeon® E5-2620v3	Intel® Xeon® E5-2620v3	Intel® Xeon® E5-2620v3	Intel® Xeon® E5-2620v4	Intel® Xeon® E5-2620v4	Intel® Xeon® E5-2620v4	
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, 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 E5-2620v4 this memory DIMM will only operate at 2133MHz.	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 E5-2620v4 this memory DIMM will only operate at 2133MHz.	
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE Flexible LOM 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/4G Controller	HPE Flexible Smart Array P440ar/4G Controller

Pre-configured Models

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)
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 via HPE Mobile USB DVDRW Drive (701498-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
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
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	HP 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	HP ProLiant DL380 Gen9 E5-2690v3 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W High Perf Server	HP 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 Flexible LOM		HPE Embedded 4x1Gb, plus 2x10Gb SFP+ Flexible LOM	HPE Embedded 4x1Gb, plus 2x10Gb-T Flexible LOM	
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			6 hot plug high performance fans, redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HPE OneView (optional)				
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				

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

Smart Buy Models

E5-2600v4 Series Smart Buy Models

[SKU Number]	850517-S01	850518-S01	850519-S01	850520-S01
Model Name	HP DL380 Gen9 E5-2609v4 US Svr/S-Buy	HP DL380 Gen9 E5-2643v4 US Svr/S-Buy	HP DL380 Gen9 E5-2650v4 Svr/S-Buy	HP DL380 Gen9 E5-2667v4 US Svr/S-Buy
Processor	Intel® Xeon® E5-2609v4	Intel® Xeon® E5-2643v4	Intel® Xeon® E5-2650v4	Intel® Xeon® E5-2667v4
Number of Processors	One			
Memory	8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: the DIMM will operate at 1866MHz with this processor.	32GB (2x16GB Registered DIMMs, 2400 MHz) NOTE: the DIMM will operate at 2400MHz with this processor		
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter			
Storage Controller	HPE H240ar Smart Host Bus Adapter	HPE Flexible Smart Array P440ar/2GB + Smart Storage Battery		
Hard Drive	None ship standard			
Internal Storage	8 SFF HDD Bays			
Optical Drive Bay	None Included: 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 500W Flex Slot Platinum Power Supply		
Fans	2 hot plug fans, redundant	4 hot plug fans, redundant		
Management	Standard: iLO Management Optional: iLO Advanced, Insight Control, HPE OneView			
Form Factor	Rack (2U), HPE Easy Install Rails without Cable Management Arms			
Warranty	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response			

Smart Buy Models

E5-2600v3 Series Smart Buy Models

[SKU Number]	777336-S01	777337-S01	800073-S01	777338-S01
Model Name	HP DL380 Gen9 E5-2609v3 US Svr/S-Buy	HP DL380 Gen9 E5-2620v3 US Svr/S-Buy	HP DL380 Gen9 E5-2620v3 SFF Svr/S-Buy	HP DL380 Gen9 E5-2640v3 US Svr/S-Buy
Processor	Intel® Xeon® E5-2609v3	Intel® Xeon® E5-2620v3		Intel® Xeon® E5-2640v3
Number of Processors	One			Two
Memory	8GB (1x8GB Registered DIMMs, 2133 MHz) NOTE: the DIMM will operate at 1600MHz with this processor.	16GB (1x16GB Registered DIMMs, 2133 MHz) NOTE: the DIMM will only operate at 1866MHz with this processor		16GB (2x8GB Registered DIMMs, 2133 MHz) NOTE: the DIMM will only operate at 1866MHz with this processor
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter			
Storage Controller	HPE H240ar Smart Host Bus Adapter	HPE Flexible Smart Array P440ar/2GB + Smart Storage Battery		
Hard Drive	None ship standard			
Internal Storage	8 SFF HDD Bays			
Optical Drive Bay	None Included: 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 500W Flex Slot Platinum Power Supply	
Fans	4 hot plug fans, redundant		6 hot plug fans, redundant	
Management	Standard: iLO Management Optional: iLO Advanced, Insight Control, HPE OneView			
Form Factor	Rack (2U), HPE Easy Install Rails			
Warranty	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response			

Smart Buy Models

	E5-2600v3 Series Smart Buy Models			
[SKU Number]	800075-S01	800076-S01	800077-S01	784655-S01
Model Name	HP DL380 Gen9 E5-2643v3 SFF Svr/S-Buy	HP DL380 Gen9 E5-2667v3 SFF Svr/S-Buy	HP DL380 Gen9 E5-2690v3 2P SFF Svr/S-Buy	HP DL380 Gen9 E5-2670v3 Perf Svr/S-Buy
Processor	Intel® Xeon® E5-2643v3	Intel® Xeon® E5-2667v3	Intel® Xeon® E5-2690v3	Intel® Xeon® E5-2670v3
Number of Processors	One		Two	
Memory	32GB (2x16GB Registered DIMMs, 2133 MHz)		64GB (4x16GB Registered DIMMs, 2133 MHz)	
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter			HPE Embedded 1Gb Ethernet 4-port 331i Adapter plus HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter
Storage Controller	HPE Flexible Smart Array P440ar/2GB + Smart Storage Battery			
Hard Drive	None ship standard			
Internal Storage	8 SFF HDD Bays			
Optical Drive Bay	None Included: 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)			6 PCIe slots
Power Supply	(1) HPE 500W Flex Slot Platinum Power Supply	(2) HPE 500W Flex Slot Platinum Power Supply	(2) HPE 800W Flex Slot Platinum Power Supply	
Fans	4 hot plug fans, redundant		6 hot plug fans, redundant	
Management	Standard: iLO Management Optional: iLO Advanced, Insight Control, HPE OneView			Standard: iLO Advanced Optional: Insight Control, HPE OneView
Form Factor	Rack (2U), HPE Easy Install Rails			
Warranty	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response			

Smart Buy Models

[SKU Number]	800078-S01	779559-S01	777339-S01	792468-S01
Model Name	HP DL380 Gen9 E5-2697v3 2P SFF Svr/S-Buy	HP DL380 Gen9 E5-2620v3 12LFF Svr/S-Buy	HP DL380 Gen9 E5-2640v3 24SFF Svr/S-Buy	HP DL380 Gen9 E5-2650v3 25SFF Svr/S-Buy
Processor	Intel® Xeon® E5-2697v3	Intel® Xeon® E5-2620v3	Intel® Xeon® E5-2640v3	Intel® Xeon® E5-2650v3
Number of Processors	Two	One	One	Two
Memory	64GB (4x16GB Registered DIMMs, 2133 MHz)	16GB (1x16GB Registered DIMMs, 2133 MHz) NOTE: the DIMM will only operate at 1866MHz with this processor	32GB (2x16GB Registered DIMMs, 2133 MHz) NOTE: the DIMM will only operate at 1866MHz with this processor	32GB (4x8GB Registered DIMMs, 2133 MHz)
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter			
Storage Controller	HPE Flexible Smart Array P440ar/2GB + Smart Storage Battery	HPE Smart Array P840/4GB + Smart Storage Battery	HPE Flexible Smart Array P440ar/2GB + Smart Storage Battery + SAS Expander	
Hard Drive		None ship standard		2x 300GB 10k SAS 4x 600GB 10k SAS
Internal Storage	8 SFF HDD Bays	12LFF HDD Bays	24 SFF HDD Bays	
Optical Drive Bay	None Included: Optional DVD-ROM (726536-B21) or DVD-RW (726537-B21) via the Universal Media Bay (724865-B21)		Not Available	
PCI-Express Slots	3 PCIe slots (+3 PCI slots available with upgrade option, second processor required)			
Power Supply	(2) HPE 800W Flex Slot Platinum Power Supply			
Fans	6 hot plug fans, redundant	4 hot plug fans, redundant		6 hot plug fans, redundant
Management	Standard: iLO Management Optional: iLO Advanced, Insight Control, HPE OneView			Standard: iLO Advanced Optional: Insight Control, HPE OneView
Form Factor	Rack (2U), HPE Easy Install Rails			
Warranty	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response			

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 a Hewlett Packard Enterprise 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)

CTO Server Model	HP ProLiant DL380 Gen9 8SFF Configure-to-order Server	HP ProLiant DL380 Gen9 NVMe 6 Solid State Drive Express Bay Configure-to-order Server	HP ProLiant DL380 Gen9 24SFF Configure-to-order Server	HP ProLiant DL380 Gen9 4LFF Configure-to-order Server	HP 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 + 6NMVe 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 Flexible LOM or stand up card	HPE Embedded 1Gb Ethernet 4-port 331i Adapter	HPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE Flexible LOM or stand up card		

Configuration Information - Factory Integrated Models

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 CTO Server (810393-B21) there are limitations on GPU support.

NOTE: The NVMe CTO Server (810393-B21) ships with the standard x8 Risers supporting 2xNVMe drives.

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

HPE Processors Entry Processors - E5-2600v4 series Processors

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

HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/10-core/25MB/55W) FIO Processor Kit 817931-L21

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

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

NOTE: Ships with a High Performance Heatsink.

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

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

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

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

Entry Processors- E5-2600v3 series Processors

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

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

Base Processors- E5-2600v3 series Processors

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

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

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

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

Configuration Information - Factory Integrated Models

HP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit	719058-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	719049-L21
Performance Processors - E5-2600v4 series Processors	
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.	
NOTE: This processor is not supported in a 12LFF or 24LFF CTO Server + Rear drive.	
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® E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Processor Kit	817965-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2697v4 (2.3GHz/18-core/45MB/145W) FIO Processor Kit	817963-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2697Av4 (2.6GHz/16-core/40MB/145W) FIO Processor Kit	817955-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor Kit	817961-L21
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® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit	817953-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit	817951-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit	817945-L21
HPE DL380 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	817943-L21
HPE DL380 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	817937-L21
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® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	817933-L21
Performance Processors- E5-2600v3 series Processors	

Configuration Information - Factory Integrated Models

HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor Kit	719057-L21
NOTE: Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit	719048-L21
HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	719059-L21
HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	762764-L21
HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit	719056-L21
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	
HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	762766-L21
NOTE: Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit	719055-L21
NOTE: Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit	719044-L21
NOTE: Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit	762760-L21
NOTE: Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit	719054-L21
NOTE: Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit	781913-L21
NOTE: Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit	781915-L21
NOTE: Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit	762768-L21
NOTE: 2SFF rear drives are not supported with this processor in a 12LFF model.	
NOTE: If two processors are desired, select one xxxxxx-L21 and one corresponding xxxxxx-B21.	
NOTE: Up to two processors supported. Mixing different processor models is not supported.	
NOTE: DDR4 speed is the maximum memor speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.	

Configuration Information - Factory Integrated Models

NOTE: When v4 Processor is selected, then only PC4-2400T Memory Kit can be selected.

NOTE: When v3 Processor is selected, then only PC4-2133P Memory Kit can be selected.

NOTE: 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

NOTE: Select one or more memory from below

NOTE: LRDIMM and RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM.

NOTE: HPE memory from previous generation servers are not qualified or warranted with this HPE ProLiant server. HP SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9

NOTE: 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.

NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: <http://www.hp.com/go/proliant-energy-efficient>.

NOTE: Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz, 1600MHz, or 1333MHz. Please see Memory Population Table or Online Memory Configuration Tool at: <http://www.hp.com/go/ddr4config>.

Registered DIMMs (RDIMMs) for E5-2600v3 Series

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

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

HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726724-B21
HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21

Registered DIMMs (RDIMMs) for E5-2600v4 Series

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

Configuration Information - Factory Integrated Models

	HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series	
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
	HP 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B21
HPE Power Supplies	<p>NOTE: 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.</p> <p>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.hp.com/go/hppoweradvisor.</p>	
	HPE Flex Slot Platinum Hot-Plug Power Supplies	
	HP 500W Flex Slot Platinum Hot Plug Power Supply Kit	720478-B21
	HP 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
	HP 800W Flex Slot Titanium Hot Plug Power Supply Kit	720482-B21
	<p>NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.</p>	
	HP 800W Flex Slot Universal Hot Plug Power Supply Kit	720484-B21
	<p>NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.</p>	
	HP 800W Flex Slot -48VDC Hot Plug Power Supply Kit	720480-B21
	<p>NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.</p>	
	HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit	720620-B21
	HP 750W Flex Slot Hot Plug Battery Backup Module	738024-B21
	<p>NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration.</p> <p>NOTE: Only 1 Battery Backup module per server, and a Flex Slot Power Supply needed in parallel.</p> <p>NOTE: The above power supply options are all 80Plus Platinum-certified with an efficiency rating of up to 94%. 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</p>	

Step 3: Choose Additional Factory Integratable Options (only one of the following from each list unless otherwise noted)

HPE Storage Controllers	<p>NOTE: The embedded B140i controller will be used as the primary controller if no controller is selected from the list below. Embedded SATA controller can support up to 8 SATA hard drives. Cable Kit may be required.</p>
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Configuration Information - Factory Integrated Models

	HPE Flexible Smart Array Controllers	
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	749974-
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	B21
	NOTE: Includes the HP Smart Storage Battery.	
	HPE Smart Array Controllers	
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	B21
	NOTE: Includes the HP Smart Storage Battery.	
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller	761874-
	NOTE: Includes the HP Smart Storage Battery.	B21
	HPE Smart Host Bus Adapters	
	HP H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter	749976-
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	B21
	HPE Cable Options	
	HP DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit	783007-
		B21
	HP DL380 Gen9 2SFF Front SAS x4 Cable Kit	783008-
	NOTE: Required for front mount 2SFF to H240/P440ar, H240 or embedded B140i SATA controller	B21
	HP DL380 Gen9 8SFF SAS Cable Kit	783009-
	NOTE: Required for 8/16/24 SFF models for use with P840/440 controllers	B21
	HP DL380 Gen9 2SFF x8 Front Cable Kit	785989-
	NOTE: Required for front/rear mount 2SFF to P440/840 PCIe controller	B21
	HP DL380 Gen9 12LFF SAS Cable Kit	785991-
	NOTE: Required for 12LFF models with P440/840 PCIe controllers	B21
	HP DL380 Gen9 8SFF H240 Cable Kit	786092-
	NOTE: Required for 8/16/24 SFF models for use with H240/P440ar, H240 PCIe or embedded B140i SATA controller.	B21
	HP DL380 Gen9 12LFF H240 SAS Cable Kit	786215-
	NOTE: Required for 12LFF models with H240/P440ar, H240 or embedded B140i SATA controller	B21
BIOS Mode	HP Legacy FIO Mode Setting	758959-
	NOTE: If selected, then B140i will not be supported and can no longer be a primary controller, therefore SAS internal controller must be selected to be the primary controller.	B22
Controller State	HP FIO Enable B140i Setting	784308-
	NOTE: Must be selected when B140i is used as primary controller and RAID is desired.	B21
	HP Mfg FIO Enable HBA Mode Setting	792962-
	NOTE: When selected if H240ar/H240 are used as the primary controller then RAID is not allowed.	B21

Configuration Information - Factory Integrated Models

HPE Unique Options	HP 2SFF Front SPEC Perf FIO Mount NOTE: May only be selected with 8SFF CTO Server and optical media cage kit and 2SFF Drive cage option. When this option is selected, a primary controller is not required for the 8SFF CTO Server.	787945-B21
HPE Insight Software	HPE Insight Control HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO E-LTU	C6N36ABE
HPE Converged Infrastructure Management Software	HPE OneView Advanced (with iLO Advanced) HP OneView for ProLiant DL Server incl 3 yr 24x7 Supp FIO Bundle Physical 1 Svr Lic HPE OneView Advanced (without HPE iLO Advanced) HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU	E5Y43A P8B31A

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

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 a Hewlett Packard Enterprise 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
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NOTE: This option provides support for up to 6NVMe drives, and can only be populated in BAY2 in SFF CTO Server 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: There are limitations on GPU support with the NVMe bay installed.

HP DL380 Gen9 Universal Media Bay Kit	724865-B21
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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 server model.

HP DL380 Gen9 Graphics Enablement Kit	719082-B21
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NOTE: This kit includes alternative 2 heatsinks plus6 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
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NOTE: This kit is required for specific Ambient temperature environments, more details here: <http://www.hp.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
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NOTE: For 2SFF front the Universal Media Bay (724865-B21) is required.

NOTE: 2SFF in the rear is only supported with a 24SFF (CTO Server or field upgraded) or 12LFF (719061-B21) CTO Server.

NOTE: 2SFF Rear drives are not supported with 160W Processors.

Core Options

HP DL380 Gen9 3LFF Rear SAS/SATA Kit	768856-B21
NOTE: This is only supported in the 12LFF CTO Server (719061-B21).	
NOTE: 3LFF rear drives will consume the 2nd riser expansion slot.	
NOTE: 3LFF Rear drives are not supported with 160W Processors.	
HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit	719076-B21
Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
NOTE: This replaces the standard Primary riser in slot1.	
HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit	719073-B21
Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
HP 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: Can only be populated in slot3 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 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 Entry Processors - E5-2600v4 series Processors

Core Options

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) Processor Kit	817931-B21
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) Processor Kit	817929-B21
HPE DL380 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit	817927-B21
HPE DL380 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	817925-B21
HPE DL380 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit	817923-B21
HPE DL380 Gen9 Intel® Xeon® E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit	817939-B21
Entry Processors - E5-2600v3 series Processors	
HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	719052-B21
HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	719053-B21
Base Processors - E5-2600v3 series Processors	
HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	719060-B21
HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	719049-B21
HP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit	719058-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	719050-B21
HP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	779556-B21
HP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	719051-B21
Performance Processors - E5-2600v4 series Processors	

Core Options

HPE DL380 Gen9 Intel® Xeon® E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit	817957-B21
NOTE: Ships with a High Performance Heatsink.	
NOTE: This processor is not supported in a 12LFF or 24LFF CTO Servers + Rear drive.	
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) Processor Kit	817965-B21
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) Processor Kit	817955-B21
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) Processor Kit	817959-B21
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) Processor Kit	817951-B21
NOTE: Ships with a High Performance Heatsink.	
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) Processor Kit	817943-B21
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) 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
Performance Processors - E5-2600v3 series Processors	

Core Options

HP 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 24LFF CTO Server + Rear drive.	
HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit	781915-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit	781913-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor Kit	719054-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit	762760-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit	719044-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor Kit	719055-B21
NOTE: Ships with a High Performance Heatsink.	
HP 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) Processor Kit	719046-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	762764-B21
HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	719059-B21
HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	719048-B21
HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor Kit	719056-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit	719057-B21
NOTE: Ships with a High Performance Heatsink.	
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	

Core Options

may depend on the quantity and type of DIMMs installed.

NOTE: 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.

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.

NOTE: Mixing of DIMM types 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.

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.

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

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

Core Options

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

HP 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Registered Memory Kit 805358-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.

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 currently only available as BTO for field upgrades only (no CTO support).

NOTE: NVDIMMs are only supported with E5-2600v4 processors.

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.

NOTE: NVDIMMs shipping in Q2/3 2016.

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.

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

HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive 791034-B21

HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 781518-B21

HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive 718162-B21

HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 785069-B21

HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 652589-B21

HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive 748387-B21

HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 759212-B21

HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 781516-B21

HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 652583-B21

Core Options

HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	

Core Options

HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793703-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793671-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	628061-B21

Core Options

HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
12G SAS Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
HPE 1.6TB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846432-B21
HPE 800GB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846430-B21
12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.2TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822567-B21
HPE 1.6TB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846436-B21
HPE 1.6TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822563-B21
HPE 800GB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846434-B21
HPE 800GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822559-B21
HPE 400GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822555-B21
6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives	
HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816576-B21
HPE 1.92TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816572-B21
HPE 960GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816568-B21
HPE 480GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816562-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	

Core Options

HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779176-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779172-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779168-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779164-B21
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21
6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value G1 Solid State Drives	
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756657-B21
6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1 Solid State Drives	
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764929-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764927-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764925-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764923-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	

Core Options

HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816929-B21
HP 1.92TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816919-B21
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816909-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HP 480GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789145-B21
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816899-B21
HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816889-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816879-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804575-B21
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	

Core Options

HP 1.92TB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	817015-B21
HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	817011-B21
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-B21
HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816999-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816989-B21
HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816985-B21
HP 240GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816979-B21
HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816975-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816965-B21
HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816969-B21
6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise Value G1 Solid State Drives	
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756660-B21
6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise Value M1 Solid State Drives	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764945-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764943-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764941-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764939-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	

Core Options

HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816933-B21
HP 1.92TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816923-B21
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
HP 960GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816913-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HP 480GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816903-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789147-B21
HP 240GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816893-B21
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 120GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816883-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
6G SATA Hot Plug LFF (3.5-inch) SC Write Intensive Solid State Drives	
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives	
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804634-B21
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	832417-B21
HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
HPE NVMe PCIe Read Intensive SFF (2.5-inch) Solid State Drives	

Core Options

HP 2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764908-B21
HP 1.2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764906-B21
HP 400GB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764904-B21
HPE NVMe PCIe Mixed Use SFF (2.5-inch) Solid State Drives	
HP 2TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765044-B21
HP 1.6TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765038-B21
HP 800GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765036-B21
HP 400GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765034-B21
HPE NVMe PCIe Write Intensive SFF (2.5-inch) Solid State Drives	
HP 2TB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764894-B21
HP 1.6TB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764892-B21
HP 800GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736939-B21
HP 400GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736936-B21
NOTE: The NVMe CTO Server (810393-B21) or the NVMe Express Bay Enablement kit (774741-B21) are required to support these drives.	
NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs .	
M.2 SSD	
HPE Dual 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835565-B21
HPE 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835563-B21
HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	777894-B21
HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	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	
HP Large Form Factor Hard Drive Blank Kit	666986-B21
HP Small Form Factor Hard Drive Blank Kit	666987-B21
Hard Drive Kits	

Core Options

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

NOTE: This option provides support for up to 6NVMe drives, and can only be populated in BAY2 in SFF CTO Server 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.

HP 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:

<http://h20195.www2.hp.com/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 CTO Server configurations and can only be populated in Bay1.

HPE Networking

1 Gigabit Ethernet adapters

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

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

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

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

10 Gigabit Ethernet adapters

HP Ethernet 10Gb 2-port 530SFP Adapter 652503-B21

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

HP Ethernet 10Gb 2-port 546SFP+ Adapter 779793-B21

HP Ethernet 10Gb 2-port 557SFP+ Adapter 788995-B21

HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-B21

HP Ethernet 10Gb 2-port 561T Adapter 716591-B21

NOTE: The DL380 Gen9 ships with 4x1Gb Embedded.

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

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

QuickSpecs for Technical Specifications and additional information:

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

FlexibleLOM Adapters

Core Options

HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
HPE FlexFabric 10Gb 2-port 556FLR-T Adapter	794525-B21
HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21

NOTE: The DL380 Gen9 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	HP 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/ .	
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21
	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825111-B21

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	
	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).	
	HP 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).	

Core Options

HPE Power Supplies	<p>HPE Flex Slot Platinum Hot-plug Power supplies</p> <p>HP 500W Flex Slot Platinum Hot Plug Power Supply Kit 720478-B21</p> <p>NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.</p> <p>HP 800W Flex Slot Titanium Hot Plug Power Supply Kit 720482-B21</p> <p>NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.</p> <p>HP 800W Flex Slot Platinum Hot Plug Power Supply Kit 720479-B21</p> <p>NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.</p> <p>HP 800W Flex Slot Universal Hot Plug Power Supply Kit 720484-B21</p> <p>NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.</p> <p>HP 800W Flex Slot -48VDC Hot Plug Power Supply Kit 720480-B21</p> <p>NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.</p> <p>HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit 720620-B21</p> <p>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).</p> <p>HP 750W Flex Slot Hot Plug Battery Backup Module 738024-B21</p> <p>NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration.</p> <p>NOTE: Only 1 Battery Backup module per server, and a Flex Slot Power Supply needed in parallel.</p> <p>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.</p> <p>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</p> <p>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.hp.com/go/hppoweradvisor.</p> <p>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.</p> <p>NOTE: Maximum of 2 Flex Slot PS per platform.</p>
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Core Options

HPE Computation HP DL380 Gen9 Graphics Enablement Kit 719082-B21
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.

NOTE: There are limitations on the server model 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 with the NVMe bay installed.

NOTE: All GPU support is limited with 1TB max memory support.

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

HP NVIDIA GRID K1 Quad GPU PCIe Graphics Accelerator

J0G94A

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: There are limitations on the server model and processor supported when adding Graphics accelerators.

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

NVIDIA GRID K2 Reverse Air Flow Dual GPU PCIe Graphics Accelerator

753958-B21

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

NOTE: Max cooling setting required to support in RSBU.

NOTE: 12LFF support is restricted to 25C Server Ambient only.

Core Options

NVIDIA Tesla K40C 12GB Computational Accelerator 753960-B21

NOTE: This is supported in all server models.

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: 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: No support in combination with the 24SFF or 12LFF servers.

HP NVIDIA Quadro K2200 Graphics Accelerator JOG89A

NOTE: This is supported in all server models.

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).

HP NVIDIA Quadro K4200 Graphics Accelerator JOG90A

NOTE: This is supported in all server models.

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).

HP NVIDIA Quadro K5200 GPU Graphics Accelerator JOG91A

NOTE: This is supported in all server models.

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 E5-2600v3 processors.

Core Options

NVIDIA Quadro K6000 PCI-E Graphics Adapter 730874-B21

NOTE: This is supported in all server models.

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: Only supported with E5-2600v3 processors.

HPE NVIDIA Tesla M60 Reverse Air Flow Dual GPU PCIe Graphics Accelerator M3X67A

NOTE: This card is not supported in the standard riser. However is supported in the 728543-B21 riser in the secondary position (second processor required) or in the, primary position. Maximum 2 supported with both risers, support for 2 cards requires the 1400W Power Supply (720620-B21) to be selected

NOTE: This card only runs at PCIeGen2 speeds.

NOTE: This card is limited to Processors running with under 140W power consumption.

NOTE: Additional Grid 2.0 Licensing from NVIDIA is required.

HPE NVIDIA Quadro M4000 Graphics Accelerator M9X58A

NOTE: Only supported with E5-2600v4 processors.

NOTE: This is supported in all server models.

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).

HP NVIDIA Quadro M5000 Graphics Accelerator M9R60A

NOTE: Only supported with E5-2600v4 processors.

NOTE: This is supported in all server models.

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.

HP NVIDIA Quadro M6000 Graphics Accelerator J0G92A

NOTE: This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the, primary position.

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

NOTE: This card only runs at PCIeGen2 speeds.

Core Options

Intel® Xeon® Phi 7120P (16GB/300W) Coprocessor Kit E2M34A

NOTE: This card only runs at PCIeGen2 speeds.

NOTE: This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the, primary position.

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

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

NOTE: This is supported in an 8SFF server model only.

NOTE: Max cooling setting required to support in RSBU.

HP AMD FirePro W7100 Accelerator Kit JOH10A

NOTE: This is supported in all server models.

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: Only supported with E5-2600v3 processors.

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 server model and processor supported when adding Graphics accelerators.

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

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

HP 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 1TB memory or less 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.

Core Options

HPE Cooling Options	<p>HP DL380 Gen9 High Performance Fan Kit</p> <p>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.</p> <p>NOTE: The 12LFF and 24SFF server models (including field upgrades to 24SFF) will already include 6 High Performance Fan kits.</p> <p>NOTE: The High Performance Fan Kit is needed to support certain Passive GPGPU (Graphics cards) configurations; or ASHRAE operating environments.</p> <p>NOTE: For elevated ambient temperature support please see: http://www.hp.com/servers/ASHRAE.</p>	719079-B21
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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 a Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

HPE Insight Software	HPE Insight Control HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A
	HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28ABE
	HP 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>	

Embedded Management	HPE iLO Advanced HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21
	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE

HPE Converged Infrastructure Management Software	HPE OneView Advanced (with HPE iLO Advanced) HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU HPE OneView Advanced (without HPE iLO Advanced)	E5Y34A E5Y35AAE
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Additional Options

HP OneView w/o iLO including 3yr 24x7 Support 1 Server LTU	P8B24A
HP OneView w/o iLO including 3yr 24x7 Support Flex Quantity E-LTU	P8B26AAE
HP OneView Media Kit Phys No Lic	E5Y37A
HP Operations Analytics for HP OneView LTU	K8G29A
HP Operations Analytics for HP OneView E-LTU	K8G29AAE

NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.

NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).

NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at:

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

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

High Performance Clusters	HPE Cluster Management Utility	
	HP Insight Cluster Management Utility 1yr 24x7 Flexible License	QL803B
	HP Insight Cluster Management Utility 3yr 24x7 Flexible License	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.

HP Insight Cluster Management Utility Media	BD477A
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NOTE: For additional license kits please see the [HPE Insight Cluster Management Utility QuickSpecs](#)

HPE PCIe Workload Accelerator Options	Value Endurance (VE) PCIe Workload Accelerators	
	HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21
	HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763838-B21
	HP 1.6TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763836-B21
	HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763834-B21
	Light Endurance (LE) PCIe Workload Accelerators	
	HP 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21
	HP 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775670-B21
	HP 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775668-B21
	HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775666-B21
NVME PCIe Workload Accelerators		

Additional Options

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
HP 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
HP 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803197-B21
HP 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
HP 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803195-B21
HP 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803200-B21

HPE Security	HP 2U Security Bezel Kit	666988-B21
	HP 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.	
	HP 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.	

HPE Storage Controllers	SAS Controllers	
	HPE Flexible Smart Array Controllers	
	HP 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.	
	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	
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
NOTE: Provides support for up to 8 internal SAS/SATA drives.		
HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726897-B21	
HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21	
HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21	
HPE Smart Host Bus Adapters		

Additional Options

HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
HP H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
HP 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.

HPE Cable Options

HP DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit	783007-B21
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NOTE: 12LFF port 3 to 2SFF or 3LFF to P440/840 PCIe.

HP DL380 Gen9 2SFF Front SAS x4 Cable Kit	783008-B21
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NOTE: For front mount 2SFF to H240/P440ar, H240 or embedded B140i SATA.

HP DL380 Gen9 8SFF SAS Cable Kit	783009-B21
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NOTE: 8/16/24 SFF to P840/440 bay 3.

HP DL380 Gen9 2SFF x8 Front Cable Kit	785989-B21
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NOTE: For front/rear mount 2SFF to P440/840 PCIe).

HP DL380 Gen9 12LFF SAS Cable Kit	785991-B21
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NOTE: For 12LFF to P440/840 PCIe cables- ports 1/2/3.

HP DL380 Gen9 8SFF H240 Cable Kit	786092-B21
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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
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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

HP SmartCache No Media 24x7 Technical Support 1 Svr License	D7S26A
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HP SmartCache No Media 24x7 Technical Support Flexible License	D7S27A
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HP SmartCache No Media 24x7 Technical Support Electronic License	D7S27AAE
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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
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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.

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

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 see: <http://www.hp.com/storage/SPOCK> and <http://www.hp.com/go/ebs>.

Tape Drives

HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver LTO-7 Ultrium 15000 Internal Tape Drive	BB873A
HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape	C0H19A

Autoloader

HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	C0L99A
HP StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	EJ014B
HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HP StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	EH946C
HP StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
HP StoreEver 1U SAS Rack-mount Kit	AE459B

HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2m Cable	K2R09A
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HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 4m Cable	K2R10A
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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

HPE Disk Backup HPE RDX Removable Disk Backup System

HP RDX+ 1TB External Backup System	B7B69B
HP RDX+ 500GB External Backup System	B7B66B
HP RDX 2TB USB3.0 External Disk Backup System	E7X53B
HP D3700 Enclosure	QW967A
HP D3600 Enclosure	QW968A
HP RDX+ External Docking System	C8S07B

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>.

Additional Options

HPE Storage Options	<p>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/saninfrastructure/hba.html.</p> <p>Emulex Fibre Channel HBAs</p> <p>HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter AJ762B</p> <p>HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter AJ763B</p> <p>HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter C8R38A</p> <p>HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter C8R39A</p> <p>QLogic Fibre Channel HBAs</p> <p>HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter AK344A</p> <p>HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter AJ764A</p> <p>HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter QW971A</p> <p>HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter QW972A</p> <p>Converged Network Adapter</p> <p>HP StoreFabric CN1100R Dual Port Converged Network Adapter QW990A</p> <p>HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter N3U52A</p> <p>HP StoreFabric CN1200E 10Gb Converged Network Adapter E7Y06A</p> <p>HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter N3U51A</p>
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HPE Disk Storage Systems	<p>Disk Enclosures</p> <p>HP D6000 Dual I/O Module Disk Enclosure QQ695A</p> <p>HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle E7W30A</p> <p>HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle E7W31A</p> <p>HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle QQ697A</p> <p>HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle QQ698A</p> <p>HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle QQ699A</p> <p>HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle QQ700A</p> <p>HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle E7W32A</p> <p>HP D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle M0T59A</p> <p>HP D6000 w/70 6TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 420TB Bundle M0T57A</p> <p>HP D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle M0T58A</p>
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Additional Options

HPE Data Center HPE Advanced Series Racks

Racks	HPE 11648 1075mm Pallet Universal Rack	H6J87A
	HPE 11648 1075mm Shock Universal Rack	H6J88A
	HPE 11642 1075mm Pallet Universal Rack	H6J65A
	HPE 11642 1075mm Shock Universal Rack	H6J66A
	HPE 11642 1200mm Pallet Universal Rack	H6J67A
	HPE 11642 1200mm Shock Universal Rack	H6J68A
	HPE 11636 1075mm Pallet Universal Rack	H6J77A
	HPE 11636 1075mm Shock Universal Rack	H6J78A
	HPE 11622 G2 1075mm Pallet Universal Rack	H6J83A
	HPE 11622 G2 1075mm Shock Universal Rack	H6J84A
	HPE 11614 1075mm Shock Universal Rack	H6J82A

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

HPE Enterprise Series Racks

	HPE 647 1075mm Pallet Intelligent Series Rack	BW911A
	HPE 647 1075mm Shock Intelligent Series Rack	BW912A
	HPE 647 1200mm Pallet Intelligent Series Rack	BW913A
	HPE 647 1200mm Shock Intelligent Series Rack	BW914A
	HPE 642 1075mm Pallet Intelligent Series Rack	BW903A
	HPE 642 1075mm Shock Intelligent Series Rack	BW904A
	HPE 642 1200mm Pallet Intelligent Series Rack	BW907A
	HPE 642 1200mm Shock Intelligent Series Rack	BW908A
	HPE 636 1075mm Pallet Intelligent Series Rack	BW895A
	HPE 636 1075mm Shock Intelligent Series Rack	BW896A
	HPE 842 1075mm Pallet Intelligent Series Rack	BW917A
	HPE 842 1075mm Shock Intelligent Series Rack	BW918A

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

HPE Value Series Rack

	HPE V142 1075mm deep Pallet 100 series Rack	AF046A
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NOTE: Please see the [HPE Standard Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

HPE Power	HPE Basic Power Distribution Units (PDU)
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Additional Options

Distribution Units (PDUs)	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 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 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU	H5M60A
	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 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 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A
	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
	HP 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)	

Additional Options

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 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU	D9N51A
HPE Metered 3Ph 5.7kVA/L21-20P 16A/120-208V Outlets (13) C13 (3)5-20R/Vertical NA/JP PDU	D9N52A
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 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A
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
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)	

Additional Options

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 11kVA/L22-20P 16A/240V Outlets (6) C19/Horizontal NA/JP PDU	AF900A
HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU	AF901A
HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A
HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) C19/Horizontal NA/JP PDU	AF537A
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
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 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 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	H8B52A
HPE Metered Switched 3Ph 8.6kVA/L2190-30P 24A/208V Outlets (23) C13 C19 (1) 520R/Vertical NA/JP PDU	H8B53A
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 HPE Location Discovery Services



Additional Options

Consoles, KVM Switches, and Keyboards	HP 36U Location Discovery Kit	BW945A
	HP 42U Location Discovery Kit	BW946A
	HP 47U Location Discovery Kit	BW947A
	HP DL380 Gen9 Location Discovery Services Ear Kit	768884-B21
	HP Location Discovery Services LCD8500 Kit	TL052A
	NOTE: Please see the HPE Location Discovery Services QuickSpecs for information on additional options and product specifications.	
	HPE Rack Mount Consoles	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	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		
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21	

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.

Additional Options

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
HP 2U Small Form Factor Ball Bearing Rail Kit	720863-B21
NOTE: Does not include CMA (720865-B21).	
HP 2U Large Form Factor Ball Bearing Rail Kit	720864-B21
NOTE: Does not include CMA (720865-B21).	
HP 2U Cable Management Arm for Ball Bearing Rail Kit	720865-B21
HPE Other Options	
HP Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP Advanced Power Manager Kit	741192-B21

HPE Uninterruptible Power Systems (UPS)

HPE DirectFlow Three Phase UPS Power Unit (1U UPS)	
HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
Input/Output Module Options for 1U UPS	
HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A
HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF491A
HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF492A
HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9Y76A
HP DirectFlow UPS Management Card	AF493A
Power Unit (2U UPS)	
HP R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
Input/Output Module Options for 2U UPS	
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF486A
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
HP 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
HP 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	
HP DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
HP DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HP WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs	

Additional Options

for information on additional options and product specifications.

HPE Tower UPS

HPE T750 G4 UPS Models

HP T750 G4 NA/JP Uninterruptible Power System J2P85A

HPE T1000 G4 UPS Models

HP T1000 G4 NA/JP Uninterruptible Power System J2P86A

HPE T1500 G4 UPS Models

HP T1500 G4 NA/JP Uninterruptible Power System J2P87A

HPE Rack-mountable UPS

HPE R/T2200 G4 UPS Models

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

HPE R/T3000 G4 UPS Models

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

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

R1500 G4 Models

HP R1500 G4 NA Uninterruptible Power System J2Q99A

R7000 Uninterruptible Power System (UPS)

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

R5000 Uninterruptible Power System (UPS)

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

NOTE: Please see the [HPE Line Interactive Single Phase UPS QuickSpecs](#)

for information on additional options and product specifications.

HPE UPS Options

HP R/T2200 G4 Extended Runtime Module J2R09A

HP R/T3000 G4 Extended Runtime Module J2R10A

HP 2U Rack/Tower UPS Shipping Kit L4Q11A

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

HPE USB and SDHPE Enterprise Mainstream Flash Media Kits for Memory Cards

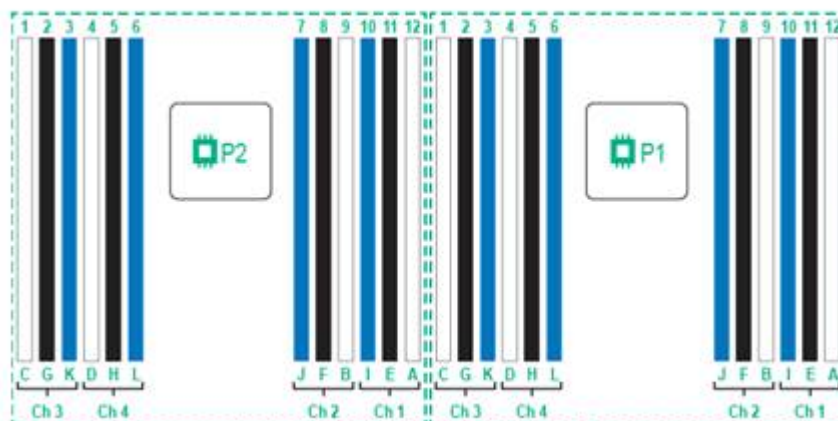
Options	HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21
	HP 32GB SD Enterprise Mainstream Flash Media Kit	700136-B21
	HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21

Additional Options

HPE Care Pack 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: http://h18000.www1.hp.com/products/QuickSpecs/14225_na/14225_na.html

Memory

- For memory population rules and additional memory guidelines, please see the DL380 Gen9 user guide at <http://www.hp.com/support>.
- 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)			
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
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133	2133
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
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

Memory Bandwidth and Capacity

[DIMM Type]	Registered DIMMs (RDIMMs)			Load Reduced (LRDIMMs)		
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank
DIMM Capacity	8GB	16GB	16GB	32GB	32GB	64GB
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400	2400
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
SLOTS THAT CAN BE POPULATED						
24 slot servers	24	24	24	24	24	24
MAXIMUM CAPACITY (GB)						
	192	384	384	768	768	1536
POPULATED DIMM SPEED (MT/s)						
1 DIMM Per Channel	2400	2400	2400	2400	2400	2400
2 DIMM Per Channel	2133	2133	2133	2133	2400	2400
3 DIMM Per Channel	1866	1866	1866	1866	2400	2400

Memory Speed by Processor Model	Processor Models	Supported Memory Speeds
	E5-2609v3, E5-2603v3	1600MHz
	E5-2630Lv3, E5-2640v3, E5-2630v3, E5-2623v3, E5-2620v3	1866MHz
	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	2133MHz
	E5-2609v4, E5-2603v4	1866MHz
	E5-2630Lv4, E5-2623v4, E5-2620v4, E5-2640v4, E5-2630v4	2133MHz
	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	2400MHz

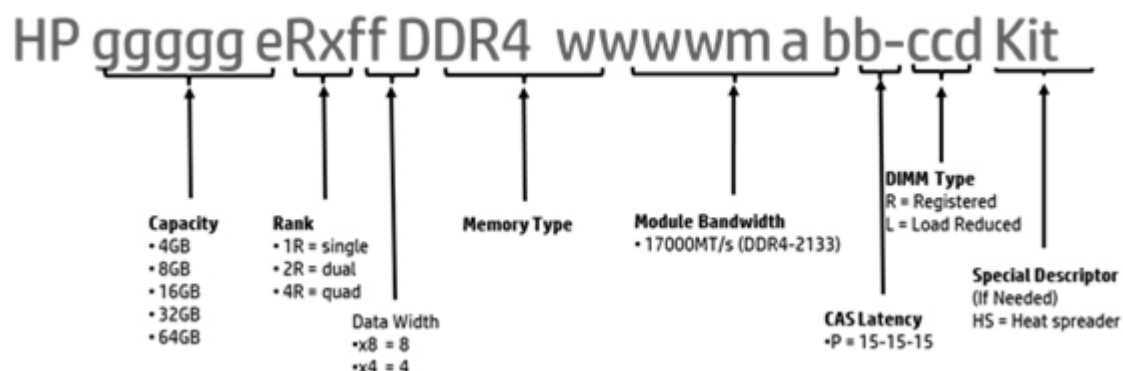
Memory

Standard and Maximum Memory Capacity (Pre-configured Models)	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
	E5-2609v3, E5-2609v4	8GB (1x8GB)	1480GB (23x64GB, 1x8GB)	1536GB (24x64GB)
	E5-2620v3, E5-2620v4, E5-2630v4	16GB (1x16GB)	1488GB (23x64GB, 1x16GB)	1536GB (24x64GB)
	E5-2650v3, E5-2650v4, E5-2690v3	32GB (2x16GB)	1440GB (22x64GB, 2x16GB)	1536GB (24x64GB)
	E5-2660v4	64GB (4x16GB)	1344GB (20x64GB, 4x16GB)	1536GB (24x64GB)

DDR4 memory options part number decoder

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

- 2GB = 2,048MB
- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



Storage

4LFF 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



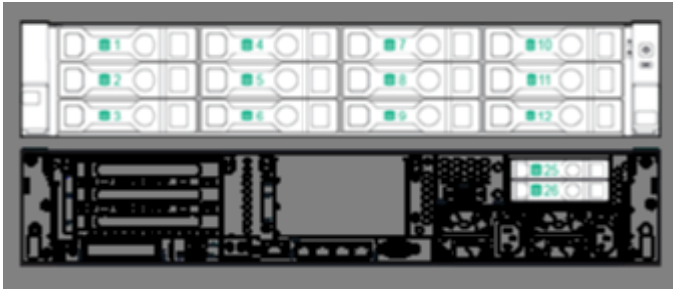
25-27

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/SSD 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



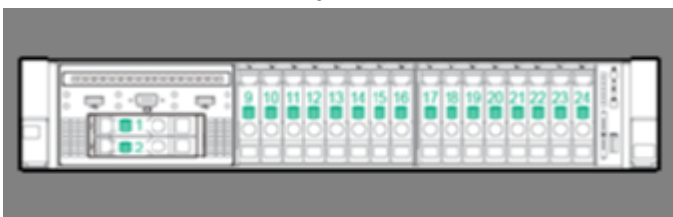
1-2

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

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.

Storage

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) NOTE: Dimensions without Bezel.	
	Weight (approximate)	Minimum:	32.6 lb (14.759 kg) (Minimum - 8SFF CTO Server 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)	Range 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 Rated Output (per power supply)	Steady-State Power	For 1400W Power Supply: 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

Technical Specifications

	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).
	Extended Ambient Operating Support	For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae
		For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
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.

Technical Specifications

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

L WAd 4.0 B Entry LFF
 4.1 B Entry
 4.2 B Base
 5.7 B Base LFF
 4.3 B Perf

L pAm 23 dBA Entry LFF
 24 dBA Entry
 24 dBA Base
 39 dBA Base LFF
 25 dBA Perf

Operating

L WAd 4.3 B Entry LFF
 4.6 B Entry
 4.8 B Base
 5.9 B Base LFF
 5.6 B Perf

L pAm 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.

Technical Specifications

HPE Dynamic Smart Array B140i Controller	Number of PCI links	Four
	PCI link rate	4 Gb/s
	Storage protocol support	SATA
	SAS/SATA peak data transfer rate	6 Gb/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 Administrator	Supported

HPE Ethernet 1Gb 4-port 331i Adapter	Network Interface Compatibility	10Base-T/100Base-TX/1000Base-TX
	Ports	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

Technical Specifications

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)	1000Mb/s per port, 4000 Mb/s combined
	1000Base-TX (Full-Duplex)	2000Mb/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 Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

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

Summary of Changes

Date	Version History	Action	Description of Change
01-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, Pre-configured 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.
28-Sep-2015	From Version 10 to 11	Added	Added new 6Gb SATA Solid State Drives.
			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





Summary of Changes

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

Summary of Changes

1-Dec-2014	From Version 4 to 5	Changed	Uninterruptible Power Systems (UPS) sections were revised.
13-Oct-2014	From Version 3 to 4	Changed	Changes made throughout the entire QuickSpecs.
13-Oct-2014	From Version 2 to 3	Added	Corrected inconsistencies between Product Bulletin and Concentra versions.
		Changed	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.
			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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