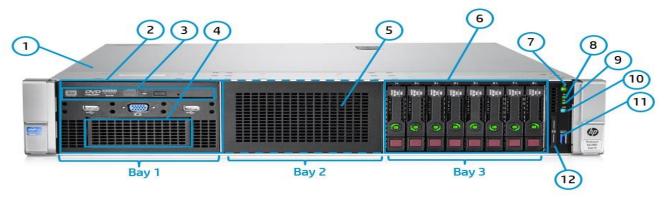
Overview

HP ProLiant DL380 Generation9 (Gen9)

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



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

- 1. Quick removal access panel
- 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

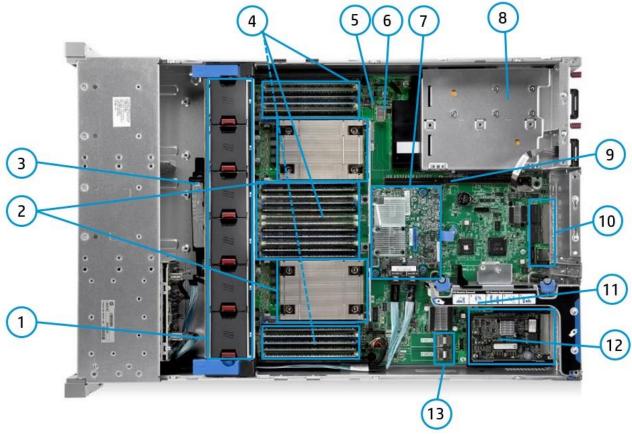


Rear view

- 1. PCI Slots (Slots 1-3 top to bottom, riser shipped standard)
- PCI Slots (Slots 4-6top to bottom, requires second riser card, and second processor)
- 3. Optional serial port
- Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end)
- HP Flexible Slot Power Supply bay 1 (800w shown)
 NOTE: Optional Micro UPS option.
- 6. Power supply Power LED

Overview

- 7. Power supply Power connection
- 8. HP Flexible Slot Power Supply bay 2 (800w shown)
- 9. Power supply Power LED
- 10. Power supply Power connection
- 11. VGA connector
- 12. Embedded 4x1GbE Network Adapter
- 13. Dedicated iLO connector
- 14. USB 3.0 connectors (2)
- 15. Unit ID LED
- 16. Optional FlexibleLOM ports (Shown: 4x1GbE)



Internal View

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

Overview

- 12. Optional Flexible LOM slot
- 13. X4 SATA ports (1 and 2)

What's New

- New support for NVMe PCIe SSDs
- New Graphic card options



Standard Features

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

ProcessorUp to two of the following depending on model

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

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).

Chipset

Intel® C610 Series Chipset

Intel® E5-2600v3 Processor Family

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

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

On System

HP iLO (Firmware HP iLO4 2.0) 4GB NAND

Management Chipset NOTE: 1GB USB user space configurable via UEFI and accessible via iLO. Read and learn more in the iLO

QuickSpecs.

Memory

Type:

One of the following depending on model

HP SmartMemory

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

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

channel)

Maximum Capacity

(LRDIMM)

1.5TB

(24 x 64GB LRDIMM @2133MHz)

Maximum Capacity (RDIMM) 768GB (24 x 32GB RDIMM @2133MHz)

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.

Standard Features

Expansion Slots

Primary Riser (Standard)	Expansion Slots#	Technology	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

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

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.

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

Expansion Slots #	Technology	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	х8	x8	23		Full-height, half- length slot	Proc 2

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

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.

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

Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
2	PCle 3.0	x16	x16	0x05		Full-height, full- length slot	Proc 1
3	PCIe 3.0	x8	x8	80x0		Full-height, half- length slot	Proc 1

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

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.

Storage Controller

One of the following depending on model

Entry Models HP 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-

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

HP Dynamic Smart Array B140i Controller

HP Flexible Smart Array P440ar/2G FIO Controller

HP Flexible Smart Array P840/4G FIO Controller

Performance Models

HP Dynamic Smart Array B140i Controller

HP Flexible Smart Array P440ar/2GB

Internal Storage Devices

One of the following depending on model

Optical Drive Ships standard in Performance Models

Optional: DVD-ROM, DVD-RW

Hard Drives None ship standard

Hard Drive Bays 8 SFF with optional Universal Media bay, 8SFF bay or 6NME drive options

24 SFF plus optional 2 SFF drives rear 12 LFF plus optional 3 LFF drives rear

^{**} Indicates the number of physical electrical lanes running to the connector.

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Standard Features

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

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

NOTE: The 6 NVMe drive option can only be leveraged in the SFF chassis and replaces

4 LFF drive bays total

NOTE: The Universal Media Bay (724865-B21) not available with the LFF chassis or

the 24SFF front end, and can only be populated in Bay1.

NOTE: The 8SFF can be upgraded with a drive cage to 16 or 24 SFF with field upgrades. For optimal upgrade Bay2 should be populated second, with Bay 13 the last to be populated for a field upgrade to 24 SFF.

NOTE: The 4LFF chassis cannot be upgraded to 12LFF in the field.

NOTE: All Pre-configured Chassis come with an embedded 10-Port SATA controller. Optional HP Flexible Smart Array and Smart SAS HBA Controllers can be added.

Maximum	Internal
Storage	

	CAPACITY	CONFIGURATION
Hot Plug SFF SAS	52.0TB	24+2 x 2TB (with optional rear SFF drive cage)
Hot Plug SFF SATA	52.0TB	24+2 x 2TB (with optional SFF drive cage)
Hot Plug LFF SAS	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	49.92TB	24+2 x 1.92TB (with optional rear SFF drive cage)
Hot Plug LFF SATA SSD	24.0TB	12+3 x 1.6TB (with optional rear LFF drive cage)
Hot Plug SFF NVMe SSD	9.6TB NVMe + 36TB SFF	6x1.6TB NVMe plus 36TB with 18 SFF (Bay 1, bay 3 and optional rear drive support)

Power Supply

HP 500W Flex Slot Platinum Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HP 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.

HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply

NOTE: Available in 94% efficiency. HP Flexible Slot Battery Backup Unit Kits

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

HP Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HP 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 HP Power Advisor Tool located at http://www.hp.com/go/hppoweradvisor.

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

System Fans

One of the following depending on model

Non-redundant Redundant

6 fans

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

fans.

2P model

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

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

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

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

Standard Features

Interfaces Serial Optional

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

active simultaneously

FlexibleLOM Network Ports 4 x 1Gb ports shipping standard with optional FlexibleLOM

HP iLO Remote Management Network 1 Gb Dedicated

Port

Micro SD Slot 1 Micro SD

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

the SD slot while the server is powered.

USB 3.0 Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0

front via Universal Media Bay

SID (Systems Insight Display) Optional

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

Operating Systems and Virtualization Software Support for ProLiant Servers

Microsoft Windows Server

Canonical Ubuntu

Red Hat Enterprise Linux (RHEL)
SUSE Linux Enterprise Server (SLES)

Oracle Solaris VMware

Citrix XenServer

NOTE: For more information on HP's 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://www.hp.com/support/DL380Gen9.

Upgradeability

Upgradeable to two processors (36 Cores)

NOTE: Processor upgrade available from Intel® Xeon® Processors E5-2600v3. Please contact HP Technology Sales (http://www.hp.com/support), your local HP Re-seller.

Up to 24 DIMM slots available for higher Memory capacity

FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options

HP Flexible Smart Array or Smart HBA Controllers Embedded 10-Port SATA, B140i as standard

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

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

Redundant Power Supply

Optical Drive supported via Universal Media Bay

NOTE: The Universal Media bay provides front VGA and 2xUSB 2.0, plus ability to add 2SFF and Optical. **NOTE:** Universal Media bay is only available with 8 or 8+8SFF chassis & can be populated in Bay1 only.

HP Legacy Mode (FIO only, 758959-B22)

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

Industry Standard Compliance

ACPI 2.0b Compliant PCIe 3.0 Compliant

PXE Support WOL Support

Microsoft® Logo certifications

USB 3.0 Support USB 2.0 Support

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

Energy Star ASHRAE A3/A4

NOTE: The DL380 Gen9 is now one of the first HP 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.

Standard Features

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

UEFI (Unified Extensible Firmware Interface Forum)

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

Graphics

Integrated Matrox G200eH2 video standard with 16MB of Video RAM

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

HP iLO 4 On System Management Memory

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

HP Server UEFI/Legacy ROM

HP Server UEFI /Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration while interacting with your server at boot time. HP 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 HP ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit http://www.hp.com/go/proliantuefi/docs.

UEFI enables numerous new capabilities specific to HP 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 HP RESTful API.
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM

For more information please visit http://www.hp.com/go/proliant/uefi.

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

NOTE: HP Legacy FIO Mode Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory.

Form Factor

One of the following depending on model

2U Rack form factor

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

HP Integrated Lights-Out (HP iLO) $Monitor\ your\ servers\ for\ ongoing\ management,\ service\ alerting,\ reporting\ and\ remote$

iLO) management with iLO. Learn more at http://www.hp.com/go/ilo.

UEFIConfigure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at http://www.hp.com/go/ProLiant/uefi.

HP RESTful API RESTful API is an application programming interface. RESTful Web Service API served by

iLO's web server. Learn more at http://www.hp.com/go/restfulapi.

Standard Features

Intelligent **Provisioning** Provision servers by discovering and deploying 1 to few servers with Intelligent Provisioning. Learn more at http://www.hp.com/go/intelligentprovisioning.

Embedded Remote Support

HP's embedded remote support, used with Insight Online direct connect or HP Insight Remote Support, allows HP ProLiant servers to transmit hardware events directly to HP or an HP Authorized Partner for automated phone home support. Learn more at

http://www.hp.com/go/insightonline/info.

Server utilities

HP Smart Update Optimize firmware and driver updates with HP Smart Update solutions. Learn more at

http://www.hp.com/go/smartupdate.

HP Systems Insight Manager (HP SIM)

HP SIM allows you to monitor the health of your HP ProLiant Servers and HP Integrity

Servers, and also provides you with basic support for non-HP servers.

HP SIM also integrates with HP SUM to provide quick and seamless firmware updates. Learn

more at http://www.hp.com/go/sim.

Scripting Tool Kit and Windows **PowerShell**

Provision 1 to many servers using your own scripts to discover and deploy them with HP Scripting Tool Kit for Windows and Linux or HP Scripting Tools for Windows PowerShell.

Learn more at http://www.hp.com/go/ProLiantSTK or

http://www.hp.com/go/powershell.

Tool

HP RESTful Interface HP RESTful Interface tool is a scripting tool to provision servers using RESTful API Interface to discover and deploy servers at scale. Learn more at http://www.hp.com/go/restfulapi.

HP 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.hp.com/go/ilo/mobileapp.

HP Insight Online

HP Insight Online, available at no additional cost as part of your HP warranty, Care Pack or contractual support agreement with HP, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at

http://www.hp.com/go/insightonline/info.

Security

Power-on password Serial interface control Administrator's password

UEFI

iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption

Integrated Lights-Out can be disabled via a Global Setting iLO Advanced supports directory services integration

TPM 1.2

Warranty

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP 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 HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP 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

HP iLO Advanced licenses offer smart remote functionality without compromise, for all HP 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 HP iLO Advanced at http://www.hp.com/go/iloadvanced.

Server Management HP Insight Control

HP 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.hp.com/go/insightcontrol.

HP OneView Advanced

HP OneView Advanced is converged management that eliminates infrastructure complexity with automation simplicity. This modern architecture is designed to accelerate your IT operations across servers, storage, and network resources using software-defined approaches and automation, see

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

HP Insight Cluster Management Utility (CMU)

HP Insight Cluster Management Utility is a hyperscale-optimized management framework that includes software for the provisioning, control, performance management and monitoring of groups of nodes and infrastructure. Learn more at http://www.hp.com/go/cmu.

Rack and Power Infrastructure

HP Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HP 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, HP is uniquely positioned to address the key concerns of power, cooling, cable management and system access.

Learn more at HP Rack and Power Infrastructure.

High Performance Clusters

HP 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 HPC 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 HP Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by HP when integrated within an HP cluster. Flexible, validated solutions can be defined with the help of configuration tools. http://www.hp.com/techservers/clusters/ucp/index.html.

HPC Interconnects

NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HP Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPC Clusters with InfiniBand Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html.

Storage Software

Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than HP 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, HP data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.

Data Archive and Migration Software

HP's storage software enables you to comply with data retention and retrieval requirements, improve



Optional Features

application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.

Storage Resource Management Software (SRM)

HP's 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

HP 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 HP storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.

HP StoreVirtual VSA

With HP 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. HP ProLiant Gen9 servers include a 3-year limited license for HP StoreVirtual VSA software with 1TB of capacity at no extra cost. Simply select to install HP 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/qo/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 HP's Customer Business Center or an Authorized Partner for assistance.

http://www.hp.com/products/configurator.



Service and Support

Service and Support

HP Technology Services for Industry Standard Servers

HP Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HP to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

Protect your business beyond warranty with HP Care Pack Services

HP Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the selected support.

Optimized Care

Supports maintaining servers at optimum performance availability

HP Proactive Care with 24x7 coverage, three year Care Pack Service

HP Proactive Care helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. This Care Pack Service combines three years' proactive reporting and advice with our 24x7 coverage and enhanced escalation management, four hour hardware response time and two hour call back for software questions on leading industry standard software running on your HP ProLiant server. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf

Standard Care Package

Supports maintaining high level of server availability

HP Proactive Care with 6 hour call-to-repair commitment, three year Care Pack Service

HP Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice when your products are connected to HP. This Service combines three years' proactive reporting and advice with our highest level reactive coverage - HP's 24x7, six hour hardware call-to-repair. HP is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. Service includes collaborative software support for Independent Software Vendors software (Red Hat, VMWare, Microsoft, etc.) running on your HP ProLiant/Apollo server.

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf

Related Services

HP Server Hardware Installation

Provides for the basic hardware installation of HP 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

Data Privacy – protect your data through better media management. HP Data privacy services help manage and protect sensitive data to reduce the risk of unauthorized access to private information and help meet compliance requirements. Our retention services allow you to keep drives and other devices upon failure, our removal services provide convenient data sanitization and our recovery services allow you to safely retire IT assets and capture any remaining value from the hardware, http://www.hp.com/services/dataprivacy

Factory Express for Servers and storage –

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP Apollo, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSAxxxx3PAR suite, XP, rackable tape libraries and configurable network switches.

For more information on Factory Express services for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.

Additional HP Care Pack services can be found at: http://www.hp.com/go/cpc

to HP

Connect your devices Unlock all of the benefits of your technology investment by connecting your products to HP. Achieve up to 77% reduction in down time, near 100% diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HP Proactive Care Service and HP 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 HP support.

Service and Support

HP Support Center

Personalized online support portal with access to information, tools and experts to support HP business products. Submit support cases online, chat with HP experts, access support resources or collaborate with peers. Learn more http://www.hp.com/go/hpsc

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

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

** HP Support Center Mobile App is subject to local availability

Parts and Materials

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

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

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

For more information To learn more on HP ProLiant servers, please contact your HP sales representative or HP Authorized Channel Partner or visit: http://www.hp.com/services/proliant



Pre-configured Models

For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information - Factory Integrated Models" section

- 1. Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.
- 2. HP does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.
- 3. If you desire a custom configuration please see "Configuration Information Factory Integrated Models" section of this QuickSpecs.
- 4. Not all models are available in all regions. Check with your local country HP offices for availability.

NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either P/N 666987-B21: HP SFF Hard Drive Blank Kit or P/N 666986-B21: HP LFF Hard Drive Blank Kit. **NOTE:** All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (AOKO2A). 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.

Caution: HP 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.

	Entry	Models	Base N	1odels	
[SKU Number]	766342-B21	752686-B21	752688-B21	752687-B21	
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	HP ProLiant DL380 Gen9 E5-2620v3 2.4GHz 6-core 1P 16GB-R P840ar/4GB 12LFF 2x800W PS Base Server	HP ProLiant DL380 Gen9 E5-2620v3 1P 16GB-R P440ar 8SFF 500W PS Base Server	
Processor	Intel® Xeor	[®] E5-2609v3	Intel® Xeon®	E5-2620v3	
Number of Processors			One		
Memory	NOTE: With the E5-2609v3	red DIMMs, 2133 MHz) 8 this memory DIMM will only t 1600MHz.	16GB (1x16GB Registered DIMMs, 2133 MHz) NOTE: with the E5-2620v3 this memory DIMM will only operate at 1866MHz		
Network Controller		HP Embedded 1Gb Eth	ernet 4-port 331i Adapter		
Storage Controller	HP Dynamic Smart Array B140i NOTE: Default is AHCI off chipset, Smart Array needs to be enabled on SATA model.		HP Flexible Smart Array P840/4G Controller	HP Flexible Smart Array P440ar/2GB	
Hard Drive	None ship standard		None ship standard; includes 10 LFF hard drive blanks	None ship standard	
Internal Storage	4 LFF HDD Bays	8 SFF HDD Bays	12 LFF HDD Bays	8 SFF HDD Bays	
Optical Drive Bay	Not Available	Optional Universal Media Bay (724865-B21)	Not Available	Optional Universal Media Bay (724865-B21)	
Optical Drive	Optional via HP 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 HP Mobile USB DVDRW Drive (701498-B21)	Optional DVD-ROM (726536-B21) or DVD-RW (726537-B21) via the Universal Media Bay (724865-B21)	
PCI-Express Slots	3 PCIe slots	s (+3 PCI slots available with ı	upgrade option, second proces	ssor required)	
Power Supply	(1) HP 500W Flex Slot	Platinum Power Supply	(2) HP 800W Flex Slot Platinum Power Supply	(1) HP 500W Flex Slot Platinum Power Supply	
Fans	4 hot plug fans, redundant		6 hot plug high performance fans, redundant	4 hot plug fans, redundant	
Management	iLO Management (sta		ng (standard), iLO Advanced (c OneView (optional)	ptional), Insight Control	
Form Factor	Rack (2U), HP	Easy Install Rails	Rack (2U), HP Easy II	nstall Rails with CMA	
Warranty	Server Warranty include	es 3-Year Parts, 3-Year Labor,	, 3-Year Onsite support with n	ext business day response	



Pre-configured Models

	Performance Models	High Perforr	nance Models			
[SKU Number]	752689-B21	803860-B21	803861-B21			
Model Name	HP ProLiant DL380 Gen9 E5- 2650v3 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server	HP ProLiant DL380 Gen9 E5- 2690v3 2P 32GB 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	[®] E5-2690v3			
Number of Processors		Two				
Memory	32	GB (2x16GB Registered DIMMs, 2133	MHz)			
Network Controller	HP En	nbedded 4x1Gb, plus 2x10Gb-T Flex	ible LOM			
Storage Controller		HP Flexible Smart Array P440ar/2GB				
Hard Drive		None ship standard				
Internal Storage		8 SFF HDD Bays				
Optical Drive Bay	Optional Universal M	Optional Universal Media Bay (724865-B21) Optional via Universal Media Ba				
Optical Drive	Н	HP Half-Height SATA DVD-RW Optical Drive				
PCI-Express Slots	6 PCle s	ots (includes second riser slot upgra	ade option)			
Power Supply	(2)	HP 800W Flex Slot Platinum Power S	Supply			
Fans	6 hot plug fans, redundant	6 hot plug high perfor	mance fans, redundant			
Management		iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HP OneView (optional)				
Energy Star		Meets Energy Star requirements				
Form Factor	F	Rack (2U), HP Easy Install Rails with (- MA			
Warranty	Server Warranty includes 3-Ye	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.

Country Code Key xx1 = B21 Worldwide

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

xx1 = 291 Japan xx1 = AA1 PRC



Configuration Information - Factory Integrated Models

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

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

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

[Chassis]	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 HP Smart Socket Guide					
DIMMSlots		24 DIMM slots for RDIMM, LRDIMM DDR4 Memory					
Storage Controller	HP Dyna	HP Dynamic Smart Array B140i, plus optional HP 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	HP Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HP Flexible LOM or stand up card	HP Embedded 1Gb Ethernet 4-port 331i Adapter	HP Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HP Flexible LOM or stand up card				
Fans	4 hot plug fans, redundant	6 hot plug high performance fans, redundant		4 hot plug fans, redundant	6 hot plug high performance fans, redundant		
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HP OneView (optional)						
USB	1 front, 2 internal, 2 rear	1 front, 1 internal, 2 rear	1 front, 2 internal, 2 rear	No front U	SB support		
Ears			HP Quick Release Ears				

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

HP Processors

Select one or two processors from Core options-Processor section below,

- If one processor is desired, select one xxxxxx-L21
- If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.
- Up to 2 processors supported. Mixing different processor models is not supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) = version number.

HP Memory

Select one or more memory from Core options-Memory section below,



Configuration Information - Factory Integrated Models

- LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM.
- HP memory from previous generation servers are not qualified or warranted with this HP ProLiant Server.
 HP SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9.
- If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available.
- 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.
- Depending on the memory configuration and processor model, the memory speed may run at 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: http://www.hp.com/qo/ddr4config.

HP Power Supplies

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

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

Step 3: Choose Additional Factory Integratable Options

HP Unique Options

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

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

HP I/O Expansion Options

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

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

HP Drives

Select one or more drives from Core options-HP Drives section below:

- The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.
- Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details
- The HP ProLiant Gen9 Smart Storage solutions are equipped with re-designed Small Form Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HP Qualified Hard Drives and Solid State Drives.
 These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove".

HP Flexible LOM

Select a FlexibleLOM from Core options-Networking section below,

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

HP Networking

Select a standup NIC adapter from Core options-Networking section below,



Configuration Information - Factory Integrated Models

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

HP Storage Controllers

Select one or more Storage options from Additional options section below.

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

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

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

HP Cooling Options

Select one or more Fan Kits from Core options section below.

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

HP Rail Kits

Select one type of rail kit from Additional options section below.

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

Caution: HP 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

HP Unique Options

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

HP DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit NOTE: This option provides support for up to 6NVMe drives, and can only be populated in BAY2 in SFF chassis only, can be used with Bay1 and Bay 3 populated. NOTE: The HP DL380 Gen9 High Performance Fan Kit is required for NVMe support (719079-B21) NOTE: The PCle 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.	774741-B21
HP DL380 Gen9 Universal Media Bay Kit NOTE: The HP DL380 Gen9 Universal Media bay provides front VGA and 2xUSB 2.0; plus support for 2xSFF front drives (724864-B21) and ODD support (No included); and can only be located in Bay1 in either an 8SFF or 8+8SFF front end.	724865-B21
HP DL380 Gen9 Graphics Enablement Kit 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.	719082-B21
HP DL380 Gen9 High Performance Fan Kit 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.	719079-B21
HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit NOTE: For 2SFF front the Universal Media Bay (724865-B21) is required. NOTE: 2SFF in the rear is only supported with a 24SFF (CTO chassis or field upgraded) or 12LFF (719061-B21) front end. NOTE: 2SFF Rear drives are not supported with 160W Processors.	724864-B21
HP DL380 Gen9 3LFF Rear SAS/SATA Kit NOTE: This is only supported in the 12LFF chassis (719061-B21). NOTE: 3LFF rear drives will consume the 2nd riser expansion slot. NOTE: 3LFF Rear drives are not supported with 160W Processors	768856-B21
HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL. NOTE: This replaces the standard Primary riser in slot1.	719076-B21
HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL	719073-B21
HP DL380 Gen9 8SFF Bay1 Cage/Backplane Kit 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.	719067-B21
HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit 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.	768857-B21
HP 12Gb SAS Expander Card with Cables for DL380 Gen9 NOTE: SAS expander to enable 24SFF field upgrade.	727250-B21
HP DL380 Gen9 Systems Insight Display Kit NOTE: The Systems Insight Display no longer ships as standard but is available as a Factory Integrated or field upgrade option.	768900-B21
HP Legacy FIO Mode Setting	758959-B22



	NOTE: UEFI is the default, this FIO part can be used for CTO to enable Legacy mode. HP DL380 Gen9 Rear Serial Port and Enablement Kit	768896-B21
HP Processors	Entry Processors - E5-2600v3 series Processors HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	719053-L21
	HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	719053-B21
	HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	719052-L21
	HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	719052-B21
	Base Processors - E5-2600v3 series Processors HP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	719051-L21
	HP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	719051-B21
	HP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	779556-L21
	HP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	779556-B21
	HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	719050-L21
	HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	719050-B21
	HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	719060-L21
	HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	719060-B21
	HP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	719058-L21
	HP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink.	719058-B21
	HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	719049-L21
	HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit Performance Processors - E5-2600v3 series Processors	719049-B21
	HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	719057-L21
	HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink.	719057-B21
	HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	719048-L21
	HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	719048-B21
	HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	719059-L21
	HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	719059-B21
	HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit NOTE: FIO indicates factory integrated option via CTO.	762764-L21
	HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	762764-B21
	HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	719056-L21
	HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink.	719056-B21
	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. NOTE: FIO indicates factory integrated option via CTO.	
HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor Kit NOTE: Ships with a High Performance Heatsink.	719046-B21
HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	762766-L21
HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor Kit NOTE: Ships with a High Performance Heatsink.	762766-B21
HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	719055-L21
HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor Kit NOTE: Ships with a High Performance Heatsink.	719055-B21
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	719044-L21
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink.	719044-B21
HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	762760-L21
HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit NOTE: Ships with a High Performance Heatsink.	762760-B21
HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	719054-L21
HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor Kit NOTE: Ships with a High Performance Heatsink.	719054-B21
HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	781913-L21
HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink.	781913-B21
HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO.	781915-L21
HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit NOTE: Ships with a High Performance Heatsink.	781915-B21
HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. NOTE: This processor is not supported in a 12LFF or 24SFF Chassis + Rear drives	762768-L21
HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: This processor is not supported in a 12LFF or 24SFF Chassis + Rear drive.	762768-B21

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

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

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



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

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

HP 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 Registered Memory Kit	726717-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-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.	
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	NOTE: The following memory is supported by the E5-2600v3 series Processors.	
	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
	NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz.	
HP 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
IP 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
	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	032003-021
	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
	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	032743-021
	HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
	111 33345 124 343 13KTpitt Et (3.5 mail) 36 converter Enterprise 391 Warranty Halu Drive	103767-061



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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 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
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HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	761477-B21 793671-B21
	765257-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
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 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	765455 D21
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	793695-B21
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	
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 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
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-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) Enterprise Performance Solid State Drives	741155 001
HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741155-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
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 Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid	779172-B21
State Drive	
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
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-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



Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 734360-B21 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21		
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 800GB 62 SAT A Walue Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 400GB 63 SAT Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 400GB 65 SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 400GB 65 SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 200GB 65 SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 200GB 65 SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 100GB 65 SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 100GB 65 SATA Walue Endurance SFF 2.5-in SC Enterprise Walue 3yr Wty Solid State Drive HP 100GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 100GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 100GB 66 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 400GB 66 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 400GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 400GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 400GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive HP 240GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive 65 SATA Not Plug SFF (2.5-inch) Enterprise Light 61 Solid State Drives HP 120GB 65 SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State		762261-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive FR 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty 691868-B21 Solid State Drive HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty 691868-B21 Solid State Drive HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty 691864-B21 Solid State Drive HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty 5018 State Drive HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty 5018 State Drive HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty 5018 State Drive 6G SATA Not Plug SFF (2.5-inch) Enterprise Value Solid State Drives 6G SATA Not Plug SFF (2.5-inch) Enterprise Value Syr Wty Solid State Drive HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 200GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 200GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive 6G SATA Not Plug SFF Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive 6G SATA Not Plug SFF Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Value 3yr Wty G1 Solid Stat	12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
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HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive 66 SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 10GB 6G SATA Walue Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 11GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive G6 SATA Hot Plug SFF Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive G6 SATA Hot Plug SFF Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) Enterprise Value 3yr Wty G1 Solid State Drive G766G5 AFF HOT Brive SFF Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive G766G5 AFF HOT Brive SFF Val	6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
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HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) Enterprise Light G1 Solid State Drives HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive G6 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 HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive HP 20GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 10GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drive HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive T89155-B21		717969-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) Enterprise Light G1 Solid State Drives HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive G6 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 HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive HP 20GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 10GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive G6 SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drive HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive T89155-B21	6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value G1 Solid State Drives	
Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Light G1 Solid State Drives HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive 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 HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 734360-B21 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drive 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21	HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State	756657-B21
Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Light G1 Solid State Drives HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive 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 HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21		756636-B21
HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive 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 HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 804605-B21 HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21 HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21		756621-B21
Borive GG 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 HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive GG SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive GG SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21	6G SATA Hot Plug SFF (2.5-inch) Enterprise Light G1 Solid State Drives	
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21 HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive		756601-B21
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21 HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1 Solid State Drives	
Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 734360-B21 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21	HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State	764929-B21
Drive HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 734360-B21 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21		764927-B21
Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 734360-B21 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21		764925-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 734360-B21 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21		764923-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21 HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 734360-B21 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21	6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives	
HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives 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 SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21	· · · · · · · · · · · · · · · · · · ·	717965-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21		
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive804605-B21HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive789155-B21		
HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive 789155-B21	•	QOVEUE DO1
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive 804599-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 240GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789135-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 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	
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691860-B21
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-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
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756639-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756624-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) Enterprise Value Solid State Drives	
HP 1.6TB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive	757342-B21
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Conveter Enterprise Value 3yr Wty Solid State Drive	739900-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718183-B21



HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive	739890-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718177-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Light G1 Solid State Drives	
HP 960GB 6G SATA Light Endurance LFF 3.5-in SC Converter ENT Light 3yr Wty G1 Solid State Drive	756604-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	718171-B21
HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734362-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	
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 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789157-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-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-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 240GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789137-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 800GB 6G SATA Write Intensive-2 LFF 3.5-in LPC 3yr Wty Solid State Drive	831725-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
HP NVMe PCIe Read Intensive SFF (2.5-inch) Solid State Drives	
HP 400GB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764904-B21
HP 1.2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764906-B21
HP NVMe PCIe Mixed Use SFF (2.5-inch) Solid State Drives HP 400GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765024 D21
HP 800GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765034-B21
• •	765036-B21 765038-B21
HP 1.6TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive HP NVMe PCIe Write Intensive SFF (2.5-inch) Solid State Drives	/05038-621
HP 400GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736936-B21
HP 800GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736939-B21
HP 1.6TB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764892-B21
NOTE: The NVMe CTO chassis (810393-B21) or the NVMe Express Bay Enablement kit	704032-021
(774741-B21) are required to support these drives.	
M.2 SSD	
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 NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only. NOTE: M.2 supports Software RAID only. NOTE: No HP Flexible Smart Array supported.	788028-B21

Hard Drive Blank Kits

Core Options

HP Networking

HP Large Form Factor Hard Drive Blank Kit	666986-B21
HP Small Form Factor Hard Drive Blank Kit	666987-B21
Hard Drive Kits	
HP DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit NOTE: This option provides support for up to 6NVMe drives, and can only be populated in	774741-B21
BAY2 in SFF chassis only, can be used with Bay1 and Bay 3 populated.	
NOTE: The HP 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.	7100C7 D21
HP DL380 Gen9 8SFF Bay1 Cage/Backplane Kit	719067-B21
HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit	768857-B21
HP DL380 Gen9 3LFF Rear SAS/SATA Kit HP DL380 Gen9 3LFF Rear SAS/SATA Kit	724864-B21
NOTE: For a complete list of the drive, Controller and cable options please check the	768856-B21
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 front end configurations and can	
only be populated in Bay1.	
1 Gigabit Ethernet adapters	
HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter	615732-B21 652497-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter	615732-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters	615732-B21 652497-B21 811546-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 1OGb 2-port 530SFP Adapter	615732-B21 652497-B21 811546-B21 652503-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 550SFP+ Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded.	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 366T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 366T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 366T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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:	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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.	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21 716591-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 366T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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 HP Ethernet 1Gb 4-port 331FLR Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21 716591-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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 HP Ethernet 1Gb 4-port 331FLR Adapter HP Ethernet 1Gb 4-port 366FLR Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21 716591-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 550T Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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 HP Ethernet 1Gb 4-port 331FLR Adapter HP Ethernet 1Gb 4-port 336FLR Adapter HP Ethernet 1Gb 4-port 366FLR Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21 716591-B21
HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 557SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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 HP Ethernet 1Gb 4-port 331FLR Adapter HP Ethernet 1Gb 4-port 366FLR Adapter	615732-B21 652497-B21 811546-B21 652503-B21 656596-B21 779793-B21 788995-B21 665249-B21 716591-B21

700751-B21

QuickSpecs

HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter

Core Options

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	HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21	
	HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21	
	NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded.		
	NOTE: Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs.		
HP InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter NOTE: The RHEL6.5 driver is not part of SPP, but may be downloaded here: http://downloads.linux.hp.com/SDR/downloads/MLNX_OFED/.	702211-B21	
	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	
	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA	583211-B21	
HP I/O Expansion Options	HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit 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.	719076-B21	
	Slot1: 1xGen3 x16 FH/FL, 1xGen3 x8 FH/HL		
	HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit 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.	719073-B21	
P Power Supplies	HP Flex Slot Platinum Hot-plug Power supplies		
	HP 500W Flex Slot Platinum Hot Plug Power Supply Kit NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	720478-B21	
	HP 800W Flex Slot Titanium Hot Plug Power Supply Kit NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	720482-B21	
	HP 800W Flex Slot Platinum Hot Plug Power Supply Kit NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	720479-B21	
	HP 800W Flex Slot Universal Hot Plug Power Supply Kit NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.	720484-B21	
	HP 800W Flex Slot -48VDC Hot Plug Power Supply Kit NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.	720480-B21	
	HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit 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 HP Power Discovery Services (blue connector).	720620-B21	
	HP 750W Flex Slot Hot Plug Battery Backup Module NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration. NOTE: Only 1 Battery Backup module per server, and a Flex Slot Power Supply needed in parallel.	738024-B21	



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

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

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

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

NOTE: Maximum of 2 Flex Slot PS per platform.

HP Computation and Graphics Accelerators

HP DL380 Gen9 Graphics Enablement Kit

Graphics Accelerators NOTE: This GPU enablement kit includes 2 Heatsinks and 6 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 chassis and processor supported when adding Graphics accelerators.

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

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

HP NVIDIA GRID K1 Quad GPU PCIe Graphics Accelerator

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 chassis 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

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 chassis and processor supported when adding Graphics accelerators.

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

NVIDIA Tesla K40C 12GB Computational Accelerator

NOTE: This is supported in all chassis. **NOTE:** The Primary GPU riser (719076-B21) is required to support this in slot1.

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

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

HP NVIDIA Tesla K80 Dual GPU PCIe Computational Accelerator

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

719082-B21

JOG94A

753958-B21

753960-B21

JOG95A

JOG89A

JOG90A

J0G91A

730874-B21

JOG92A

C1P87A

E2M34A

QuickSpecs

Core Options

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

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

NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators (No 24/26SFF support with the K80).

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

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: 24SFF support is restricted to 30C Server Ambient only

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

HP NVIDIA Quadro K2200 Graphics Accelerator

NOTE: This is supported in all chassis.

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

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

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

HP NVIDIA Quadro K4200 Graphics Accelerator

NOTE: This is supported in all chassis.

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

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

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

HP NVIDIA Quadro K5200 GPU Graphics Accelerator

NOTE: This is supported in all chassis.

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

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

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

NVIDIA Quadro K6000 PCI-E Graphics Adapter

NOTE: This is supported in all chassis.

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

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

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

HP NVIDIA Quadro M6000 Graphics Accelerator

NOTE: This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the 752803-B21, primary position. Maximum 2 supported with both risers, support for 2 cards requires the 1400W Power Supply (720620-B21) to be selected.

Intel® Xeon® Phi 5110P Coprocessor Kit

NOTE: This card only runs at PCleGen2 speeds.

NOTE: This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the 752803-B21, primary position. Maximum 2 supported with both risers, support for 2 cards requires the 1400W Power Supply (720620-B21) to be selected.

NOTE: Max cooling setting required to support in RSBU.

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

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

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 752803-B21, 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).

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QuickSpecs

Core Options

NOTE: This is supported in an 8SFF chassis only.

NOTE: Max cooling setting required to support in RSBU

HP AMD FirePro W7100 Accelerator Kit

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

processor required).

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

HP AMD FirePro S9150 Accelerator Kit

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

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

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

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

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

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

HP 150W PCI-E Power Cable Kit

669777-B21

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: NVIDIA limits configurations to having 1TB memory or less installed

HP Cooling Options

HP DL380 Gen9 High Performance Fan Kit

719079-B21 **NOTE:** High Performance Fan kit consists of 6 fans, these will need to replace all the

standard Fans in the unit, and fill all 6-Fan cages.

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

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

NOTE: For elevated ambient temperature support please see:

http://www.hp.com/servers/ASHRAE.

Additional Options

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

HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License

HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License

HP Insight Control Server Provisioning Media Kit

BD883A

HP Insight Management Media Kit

C6N31A

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

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service. **NOTE:** Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.

NOTE: For additional license options please see the QuickSpecs at:

http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html.

HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO C6N36A License

HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic C6N36ABE License

Embedded Management

HP iLO Advanced

HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License

HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates

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

HP Converged Infrastructure Management Software

HP OneView Advanced (with HP iLO Advanced)

HP OneView incl 3yr 24x7 Supp Phys 1 Svr LicE5Y34AHP OneView incl 3yr 24x7 Supp Flex Qty E-LTUE5Y35AAEHP OneView for ProLiant DL Server incl 3yr 24x7 Supp Fl0 Bundle Physical 1 Svr LicE5Y43A

HP OneView Advanced (without HP iLO Advanced)

HP OneView w/o iLO Adv incl 3yr 24x7 Supp Phys 1 Svr Lic E5Y38A
HP OneView w/o iLO Adv inc 3yr 24x7 Supp Flex Qty E-LTU E5Y39AAE
HP OneView Media Kit Phys No Lic E5Y37A
HP Operations Analytics for HP OneView LTU K8G29A
HP Operations Analytics for HP OneView E-LTU K8G29AE

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

NOTE: Server provisioning (via 'HP Insight Control server provisioning') is licensed as part of HP 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 HP 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

HP Cluster Management Utility

HP Insight Cluster Management Utility 1yr 24x7 Flexible License

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



Additional Options

NOTE: For additional license kits please see the QuickSpecs at:

http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.html.

HP PCIe Wor	kload
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	
HP 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803204-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
HP 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803195-B21
HP 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803200-B21

HP Security

HP 2U Security Bezel Kit

HP Trusted Platform Module Option

HP Flexible Smart Array Controllers

666988-B21 488069-B21

726821-B21

NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: http://www.hp.com/go/TPM.

NOTE: ProLiant OS pre-installed units will come with the partition required for TPM deployment.

NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.

HP Storage Controllers

SAS 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 HP Smart Storage Battery.	
HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	749974-B21
NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	

NOTE: Includes the HP Smart Storage Battery.

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

NOTE: FIO indicates factory integrated option via CTO.

HP Smart Array Controllers

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

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

NOTE: Includes the HP Smart Storage Battery.

NOTE: FIO indicates factory integrated option via CTO.

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

NOTE: Includes the HP Smart Storage Battery.



Additional Options

NOTE: When ordering controllers, please reference the HP Cable Options below for the **NOTE:** FIO indicates factory integrated option via CTO. **HP Smart Host Bus Adapters** 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. HP H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter 749976-B21 **NOTE:** Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. **NOTE:** FIO indicates factory integrated option via CTO. **HP Cable Options** 783007-B21 HP DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit **NOTE:** 12LFF port 3 to 2SFF or 3LFF to P440/840 PCIe. HP DL380 Gen9 2SFF Front SAS x4 Cable Kit 783008-B21 NOTE: For front mount 2SFF to H240/P440ar, H240 or embedded B140i SATA. HP DL380 Gen9 8SFF SAS Cable Kit 783009-B21 **NOTE:** 8/16/24 SFF to P840/440 bay 3. HP DL380 Gen9 2SFF x8 Front Cable Kit 785989-B21 **NOTE:** For front/rear mount 2SFF to P440/840 PCIe). HP DL380 Gen9 12LFF SAS Cable Kit 785991-B21 **NOTE:** For 12LFF to P440/840 PCIe cables- ports 1/2/3. HP DL380 Gen9 8SFF H240 Cable Kit 786092-B21 **NOTE:** 8/16/24SFF to 240/440ar, H240 PCIe or embedded B140i SATA. HP DL380 Gen9 12LFF H240 SAS Cable Kit 786215-B21 NOTE: For 12LFF ports 1&2 to H240/P440ar, H240 or embedded B140i SATA. **NOTE:** For details on cabling options, additional information available here: Cabling Matrix. **Optional Software** HP Secure Encryption No Media Flexible License per Drive **D8S84A** D8S85AAE HP Secure Encryption No Media E-LTU per Drive **NOTE:** HP Secure Encryption is supported when one of the supported Smart Array Controllers or the supported Smart SAS HBA (configured in a RAID mode) is installed in the server. HP Secure Encryption licensing is based on the number of physical drives requiring encryption. NOTE: For more information about HP Secure Encryption, go to http://www.hp.com/go/hpsecureencryption. HP SmartCache No Media 24x7 Technical Support 1 Svr License D7S26A HP SmartCache No Media 24x7 Technical Support Flexible License D7S27A HP SmartCache No Media 24x7 Technical Support Electronic License D7S27AAE NOTE: HP SmartCache is supported when one of the supported Smart Array Controllers is installed in the server. NOTE: HP SmartCache comes standard (no licensing is required) if the HP Smart Array P840 Controller is installed in the server. **Optional Upgrades** 727258-B21 HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers **NOTE:** Provides backup power for multiple HP Smart Array controllers or other devices (up **NOTE:** Ships as standard with some HP Flexible Smart Array Controllers. HP 12Gb SAS Expander Card with Cables for DL380 Gen9 727250-B21

HP 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 HP tape backup products see: http://www.hp.com/storage/SPOCK and http://www.hp.com/go/ebs.

Tape Drives

HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive

EH964A



Additional Options

	HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader	COH19A	
	HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A	
	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 Tape Drive in 3U Rack-mount	EJ013B	
	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	
	HP Mini SAS High Density to 4-lane Mini SAS External Fanout 2 Meter Cable	K2R09A	
	HP Mini SAS High Density to 4-lane Mini SAS External Fanout 4 Meter Cable	K2R10A	
	HP Tape Storage Systems HP StoreEver MSL6480		
	HP StoreEver MSL6480 Scaleable Expansion Module	QU626A	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	QUUZUA	
	information: http://h18000.www1.hp.com/products/quickspecs/14604_div/14604_div (Worldwide).	.html	
	HP StoreEver MSL6480 Scalable Base Module	QU625A	
	HP MSL2024 0-Drive Tape Library	AK379A	
	HP MSL4048 0-Drive Tape Library	AK381A	
HP Disk Backup	HP RDX Removable Disk Backup System		
	HP RDX1000 USB 3.0 External Disk Backup System	B7B69A	
	HP RDX+ 1TB External Backup System	B7B69B	
	HP RDX500 USB 3.0 External Disk Backup System	B7B66A	
	HP RDX+ 500GB External Backup System	B7B66B	
	HP RDX320 USB3.0 External Disk Backup System	B7B63A	
	HP RDX 2TB USB3.0 External Disk Backup System	E7X53A	
	HP RDX 2TB USB3.0 External Disk Backup System	E7X53R	
	HP D3700 Enclosure	QW967A	
	HP D3600 Enclosure	QW968A	
	HP RDX+ External Docking System	C8S07B	
		C0307B	
	NOTE: For the complete range of RDX drives and media see: http://www.hp.com/go/rdx. For hardware and software compatibility of HP disk backup products see: http://www.hp.com/storage/SPOCK.		
HP Storage Options	NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows Server 2003 and Line please see: http://h18006.www1.hp.com/storage/saninfrastructure/hba.html. Emulex Fibre Channel HBAs		
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B	
	HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B	
	HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A	
	HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A	
	QLogic Fibre Channel HBAs		
	HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A	
	HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A	
	HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A	
	HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW971A QW972A	
		UVVJIZH	
		4	
	Converged Network Adapter		
		QW990A E7Y06A	

Additional Options

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HP Disk Storage	Disk Enclosures	
Systems	HP D6000 Dual I/O Module Disk Enclosure	QQ695A
	HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W30A
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A
HP Data Center Rack	s HP 11000 G2 Series Racks	
	HP 11648 1075mm Pallet Universal Rack	H6J87A
	HP 11648 1075mm Shock Universal Rack	H6J88A
	HP 11642 1075mm Pallet Universal Rack	H6J65A
	HP 11642 1075mm Shock Universal Rack	H6J66A
	HP 11642 1200mm Pallet Universal Rack	H6J67A
	HP 11642 1200mm Shock Universal Rack	H6J68A
	HP 11636 1075mm Pallet Universal Rack	H6J77A
	HP 11636 1075mm Shock Universal Rack	H6J78A
	HP 11622 G2 1075mm Pallet Universal Rack	H6J83A
	HP 11622 G2 1075mm Shock Universal Rack	H6J84A
	HP 11614 1075mm Shock Universal Rack	H6J82A
	NOTE: Please see the HP 11000 G2 Series Racks QuickSpecs for information on	
	additional racks options and rack specifications.	
	HP Intelligent Series Rack	
	HP 647 1075mm Pallet Intelligent Series Rack	BW911A
	HP 647 1075mm Shock Intelligent Series Rack	BW912A
	HP 647 1200mm Pallet Intelligent Series Rack	BW913A
	HP 647 1200mm Shock Intelligent Series Rack	BW914A
	HP 642 1075mm Pallet Intelligent Series Rack	BW903A
	HP 642 1075mm Shock Intelligent Series Rack	BW904A
	HP 642 1200mm Pallet Intelligent Series Rack	BW907A
	HP 642 1200mm Shock Intelligent Series Rack	BW908A
	HP 636 1075mm Pallet Intelligent Series Rack	BW895A
	HP 636 1075mm Shock Intelligent Series Rack	BW896A
	HP 842 1075mm Pallet Intelligent Series Rack	BW917A
	HP 842 1075mm Shock Intelligent Series Rack	BW918A
	NOTE: Please see the HP Intelligent Series Racks QuickSpecs for information on additional racks options and rack specifications.	
	HP Value Series Rack	
	HP V142 1075mm deep Pallet 100 series Rack	AF046A
	NOTE: Please see the HP Value Series Rack QuickSpecs for information on additional racks	A1 040A
	options and rack specifications.	
HP Power	HP Basic Power Distribution Unit (bPDU)	
Distribution Units	HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5M54A
(PDUs)	HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56A
	HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDU	H5M55A
	HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU	H5M57A
	HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU	H5M58A
	HP 7.3kVA 230 Volt IEC309 32A Input (20xC13) INTL Basic PDU	H5M68A
	HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M61A
	HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU	H5M59A
	HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70A
	HD 9 36// 209 Volt (CS9365C Input (20xC13/6xC19) N/ ID Rasic PDU	HEMEON

HP 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU

H5M60A



HP 11kVA 230 Volt IEC309 63A Input (30xC13/6xC19) INTL Basic PDU	H5M71A
HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75A
HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xNEMA 5-20R) NA/JP Basic PDU	H5M63A
HP 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU	H5M64A
HP 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU	H5M62A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU	H5M72A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU	H5M73A
HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67A
HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU	H3X08A
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit	252663-D71
HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D74
HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D75
HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit	252663-B33
HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit	252663-B34
HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit	AF512A
HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit	AF513A
HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit	AF519A
HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit	AF511A
HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit	AF518A
NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP	
website at http://www.hp.com/go/pdu.	
HP Monitored Power Distribution Units (mPDU)	
HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43A
HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU	D9N46A
HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU	D9N44A
HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45A
HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU	G9Z05A
HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU	G9Z06A
HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU	D9N47A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU	D9N48A
HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU	D9N51A
HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP Monitored PDU	D9N52A
HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP	D9N53A
Monitored PDU	
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU	D9N55A
HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU	D9N49A
HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU	D9N50A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N57A
HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU	D9N58A
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU	D9N61A
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU	D9N62A
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored PDU	D9N54A
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU	D9N59A
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Watertight Input (12xC13/12xC19) NA/JP	G9Z07A
Monitored PDU	
HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU	D9N63A
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N56A
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU	D9N60A
HP 22kVA 400 Volt IEC309 32A 3-Phase Watertight Input (12xC13/12xC19) INTL Monitored	G9Z08A
PDU	
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the HP Monitored Power Distribution Units QuickSpecs for information	
on additional options and product specifications.	
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HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF520A
HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF521A
HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF522A
HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF523A
HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Power Distribution Unit	AF900A
HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distribution Unit	AF901A
HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525A
HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF526A
HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF527A
HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF535A
HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF537A
HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Power Distribution Unit	AF538A
HP 4.9kVA 24A Single Phase NA/JP Intelligent Modular Power Distribution Kit	AF531A
HP 8.6kVA 24A Three Phase NA/JP Intelligent Modular Power Distribution Kit	AF532A
HP 14.4kVA 40A Three Phase NA/JP Intelligent Modular Power Distribution Unit	AF533A
HP 7.3kVA 32A Single Phase INTL Intelligent Modular Power Distribution Kit	AF534A
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 HP Intelligent Power Distribution Units QuickSpecs for information	
on additional options and product specifications.	
HP Managed Power Distribution Units (maPDU)	
HP 2.8kVA 120 Volt L5-30 Input (24x NEMA 5-20) NA/JP Managed PDU	H8B48A
HP 3.6kVA 200-240 Volt Detachable C20 Input (7xC13/1xC19) WW Managed PDU	H8B49A
HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Managed PDU	H8B50A
HP 7.3kVA 200-240 Volt IEC309 32A Input (20xC13/4xC19) INTL Managed PDU	H8B51A
HP 8.6kVA 208 Volt L15-30 3 Phase Input (18xC13/6xC19) NA/JP Managed PDU	H8B52A
HP 8.6kVA 208 Volt L21-30 3 Phase Input (20xC13/3xC19/1x NEMA 5-20) NA/JP Managed PDU	H8B53A
HP 11kVA 400 Volt IEC309 16A 3 Phase Input (21xC13/3xC19) INTL Managed PDU	H8B54A
HP 14.4kVA 208V CS8365C 3 Phase Input (12xC13/12xC19) NA/JP Managed PDU	H8B55A
HP 17.3kVA 208V IEC309 60A 3 Phase Input (12xC13/12xC19) NA/JP Managed PDU	H8B56A
NOTE: Please see the HP Managed Power Distribution Units QuickSpecs for information	
on additional options and product specifications.	
NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page.	
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HP Rack Mount Consoles, KVM Switches, and Keyboards

HP	Location	Discovery	Services
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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 QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14429_div/14429_div.html (Worldwide)

HP Rack Mount Consoles

III Rack Flouric Consoles	
HP LCD8500 1U US Rackmount Console Kit	AF630A
HP LCD8500 1U UK Rackmount Console Kit	AF631A
HP LCD8500 1U DE Rackmount Console Kit	AF632A
HP LCD8500 1U FR Rackmount Console Kit	AF633A
HP LCD8500 1U JP Rackmount Console Kit	AF642A
HP LCD8500 1U RU Rackmount Console Kit	AF643A
HP LCD8500 1U INTL Rackmount Console Kit	AF644A
HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
HP TFT7600 G2 KVM Console Rackmount Keyboard JP Monitor	AZ882A



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 HP KVM Switches web page.	
HP USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
HP 1U INT Rackmount Keyboard with USB	AG086A
HP 1U US Rackmount Keyboard with USB	AG072A
NOTE: Places see the UP USP Keyboard and Mouse QuickSpace for information on	

NOTE: Please see the HP USB Keyboard and Mouse QuickSpecs for information on additional options and product specifications.

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: HP 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.

your mountainers mountainers proper to the arrangement properties and the arrangement and	
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 2111 arge Form Factor Ball Bearing Bail Kit	720864-B21



	NOTE: Does not include CMA (720865-B21).						
	HP 2U Cable Management Arm for Ball Bearing Rail Kit	720865-B21					
	HP 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					
P Uninterruptible	HP DirectFlow Three Phase UPS						
ower Systems (UPS)	Power Unit (1U UPS)						
	HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A					
	HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A					
	HP RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF437A					
	Input/Output Module Options for 1U UPS						
	HP 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 Input/Output Module	AF488A					
	HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A					
	HP 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module	AF490A					
	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 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309 Input/Output Module	AF483A					
	HP 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated Input/Output Module	AF485A					
	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 HP DirectFlow Three Phase Uninterruptible Power System QuickSpecs						
	for information on additional options and product specifications.						
	HP Tower UPS						
	HP T750 G4 UPS Models	120054					
	HP T750 G4 NA/JP Uninterruptible Power System	J2P85A					
	HP T750 G4 INTL Uninterruptible Power System	J2P88A					
	HP T1000 G4 UPS Models	IDDOC A					
	HP T1000 G4 NA/JP Uninterruptible Power System	J2P86A					
	HP T1000 G4 INTL Uninterruptible Power System	J2P89A					
	HP T1500 G4 UPS Models HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A					
	HP T1500 G4 NATU Uninterruptible Power System	J2P87A J2P90A					
	HP T750 G2 UPS Models	JZPSUA					
	HP T750 G2 750VA INTL Tower Uninterruptible Power System	AF447A					
	HP Rack-mountable UPS HP R/T2200 G4 UPS Models						

HP R/T2200 G4 NA/JP Uninterruptible Power System

J2R00A



HP USB and SD Options

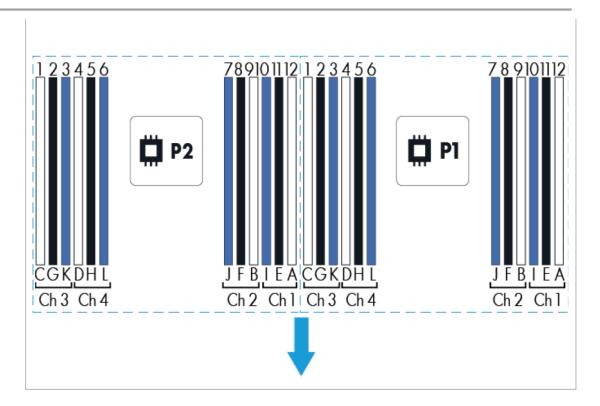
HP Care Pack Services

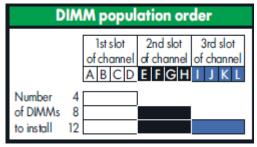
HP R/T3000 G4 UPS Models		
HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A	
HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A	
HP R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A	
R1500 G4 Models		
HP R1500 G4 NA Uninterruptible Power System	J2Q99A	
HP R1500 G4 JP/TWN Uninterruptible Power System	J2R05A	
HP R1500 G4 INTL Uninterruptible Power System	J2R03A	
R1.5kVA G3 Models		
R7000 Uninterruptible Power System (UPS) HP R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A	
HP R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A	
R5000 Uninterruptible Power System (UPS)	711 10571	
HP R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A	
HP R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A	
NOTE: Please see the HP Line Interactive Single Phase UPS QuickSpecs for information on		
additional options and product specifications.		
HP 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 HP Uninterruptible Power Systems (UPS) web		
page.		
HP Enterprise Mainstream Flash Media Kits for Memory Cards		
HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-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	
Installation & Start-up Services		
HP Install ProLiant DL38x(p) Service	U4554E	
HP Startup ProLiant DL38x(p) Service	U4555E	
Proactive Care		
HP 3 year 24x7 DL380 Gen9 w/IC Proactive Care Service	U5HW1E	
HP 3 year 24x7 with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service	U5HW2E	
HP 3 year 24x7 w/ Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service	U5HW3E	
HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service	U5HX0E	
HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service	U5HX1E	
HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service	U5HX2E	
HP 3 year 24x7 DL380 Gen9 Proactive Care Service	U7AE8E	
HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service	U7AE9E	
HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service	U7AF0E	
HP 3 year Call to Repair DL380 Gen9 Proactive Care Service	U7AF4E	
HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 Proactive Care Service	U7AF5E	
HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service	U7AF6E	

Memory

Memory Subsystem Architecture Each Intel® Xeon® E5-2600v3 family processor socket contains four memory channels per installed processor with three DIMMs per channel for a total of twelve (12) DIMMs or a grand total of twenty-four (24) DIMMs for the server.

Memory Population guidelines





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.
- . HP memory from previous generation servers is not compatible with the DL380 Gen9 Server. Certain HP SmartMemory features such as memory authentication and enhanced performance may not be supported.



Memory

- To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html (Worldwide).
- . 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 channels1 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 HP ProLiant Gen9 Intel® Xeon®E5-2600v3 Series Processor Family

Memory Bandwidth and Capacity

[DIMM Type]	Registered DIMMs (RDIMMs)					Load Reduced (LRDIMMs)			
DIMM Rank	Sing	le Rank	Dual Rank					Quad Rank	
DIMM Capacity	4GB 8GB		GB	16GB	32GB	16GB	32GB	64GB	
DIMM Native Speed (MT/s)	2133					33			
/oltage	Std Voltage 1.2V								
SLOTS THAT CAN BE POPULATED									
24 slot servers	24								
MAXIMUM CAPACITY (GB)									
	96	1	92	384	768	384	768	1536	
I DIMM Per Channel	2133								
2 DIMM Per Channel	2133								
3 DIMM Per Channel	1600 1866								

Memory Speed by Processor Model

Processor Models	Supported Memory Speeds
E5-2603v3, E5-2609v3,	1600MHz
E5-2620v3, E5-2623v3, E5-2630v3, E5-2630Lv3, E5- 2640v3,	1866MHz
E5-2637v3, E5-2643v3, E5-2650v3, E5-2650Lv3, E5- 2660v3, E5-2667v3, E5-2670v3, E5-2680v3, E5-2683v3, E5-2690v3, E5-2695v3, E5-2697v3, E5-2698v3, E5- 2699v3, E5-2687Wv3,	2133MHz

Standard and Maximum Memory Capacity (Preconfigured Models)

Pre-Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
E5-2609v3,	8GB (1x8GB)	744GB (23x32GB, 1x8GB)	768GB (24x32GB)
E5-2620v3,	16GB (1x16GB)	752GB (23x32GB, 1x16GB)	768GB (24x32GB)
E5-2650v3, E5-2690v3,	32GB (2x16GB)	736GB (22x32GB, 2x16GB)	768GB (24x32GB)

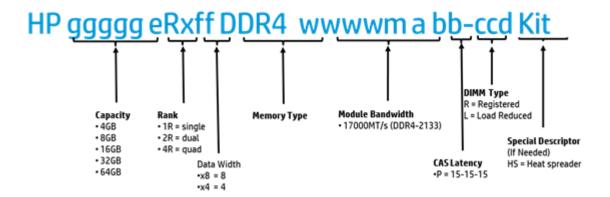


Memory

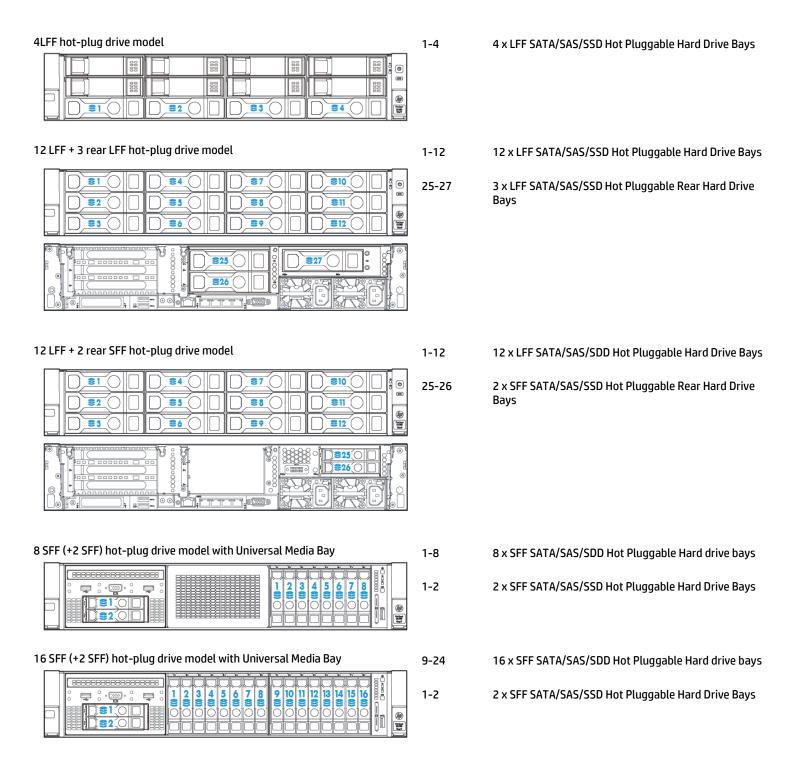
DDR4 memory options part number decoder

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

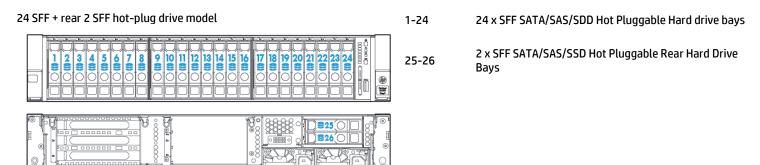
- 2GB = 2,048MB
- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



Storage



Storage



NOTE: Drives behind the SAS expander will be labeled continuous, drives behind a controller will be numbered 1-8. Note: With a SAS Expander and rear drive support the 2SFF rear will be labeled 25 & 26, for 3LFF they will be numbered 25-27.

Technical Specifications

System Unit Dimensions SFF Drives: 3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm)

LFF Drives: 3.44 x 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm)

NOTE: Dimensions without Bezel.

Weight (approximate) Minimum: 32.6 lb (14.759 kg)

(Minimum - 8SFF chassis with 1xSFF HDD and 7 HDD blanks, 1x processor, 1x power supply

(plus blank), 1x Flexible Smart Array. 1x Riser installed)

Maximum: 51.5 lb (23.6 kg)

(Maximum - 12 LFF hard drives (No rear

drives), 2x

processors, 2x power supplies, 1x Flexible Smart Array, 2x Risers installed)

Input Requirements Range Line Voltage 100 to 120 VAC

(per power supply)

BTU Rating

200 to 240 VAC

For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at

200 VAC), 3112 BTU/hr (at 240 VAC) for China Only

For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at

200 VAC), 1965 BTU/hr (at 240 VAC) for China Only

Power Supply Output

(per power supply)

Rated Steady-State

Power

Maximum

For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC) For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC),

800W (at 240 VAC) input for China only

For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC),

500W (at 240 VAC) input for China only

Maximum Peak

Power

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

240 VAC) input for China only

For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to

240 1VAC), 800W (at 240 VAC) input for China only

For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to

240 VAC), 500W (at 240 VAC) input for China only

System Inlet **Temperature** Standard Operating

Support

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a

maximum of 3050 m (10,000 ft), no direct sustained

sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

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



Technical Specifications

System performance may be reduced if operating in the extended

ambient operating range or with a fan fault.

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

(36°F/hr).

Relative Humidity Operating Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point

or 8% relative humidity. Maximum to be the lower (less moisture) of

24°C (75.2°F) dew point or 90% relative humidity.

(non-condensing) Non-operating 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb

temperature, non-condensing.

Altitude Operating 3050 m (10,000 ft). This value may be limited by the type and number

of options installed. Maximum allowable altitude change rate is 457

m/min (1500 ft/min).

Non-operating 9144 m (30,000 ft). Maximum allowable altitude change rate is 457

m/min (1500 ft/min).

Acoustic Noise Listed are the declared A-Weighted sound power levels (LWAd) and declared average

bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779

(ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

Idle

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
25 dBA Entry LF

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

HP Dynamic Smart Array B140i Controller

Number of PCI links Four **PCI link rate** 4 Gb/s Storage protocol SATA

support SAS/SATA peak

data transfer rate

6 Gb/s 10 links

Number of SAS/SATA links

SAS/SATA connectivity 2x4 connectors; 2x1 connectors

Expander support No

Drives supported

Up to 10 Internal Drives

(max)

RAID support 0, 1, 10, 5 SATA Software HP SSA, SMH, SIM

management

Warranty Server warranty **HP Secure** Not Supported

Encryption license

HP SmartCache

Not Supported

License

HP Smart Storage Administrator

Supported

HP Ethernet 1Gb 4port 331i Adapter

Network Interface 10Base-T/100Base-TX/1000Base-TX

Compatibility IEEE 802.3 10Base-T

> IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX PCI Express, two lanes (x2)

Data Transfer Method

Controller BCM5719 **Network Transfer** 10Base-T (Half-

Rate

Duplex) 10 Mb/s per port, 40 Mb/s combined

10Base-T (Full-

100Base-TX (Half-

Duplex) 20 Mb/s per port, 80 Mb/s combined

Duplex)

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

100 Mb/s per port, 400 Mb/s combined

Connector Four RJ-45

Cable Support Categories 3, 4 or 5 UTP; up to 328 ft (100 m) 10 Base-T

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 offers end-of-life HP 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 HP sales office. Products returned to HP 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 web site at:



Technical Specifications

http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Summary of Changes

Date	Version History	Action	Description of Change
Aug-17-2015	From Version 9 to 10	Added	Added new Solid State Drives offering.
			Added new graphic options.
		Changed	What's New changed to:
		changea	New support for NVMe PCIe SSDs
			New Graphic card options
			Service and Support section was updated.
			Maximun Internal Storage and Core Options were revised.
		Removed	Obsolete SKUs were removed from QuickSpecs.
Jun-01-2015	From Version 8 to 9	Added	New larger capacity HDDs (up to 8TB LFF), Max capacity 120TB were added.
			New higher capacity memory (64GB), Max capacity 1.5TB was added.
			New Networking options were added.
			Optional Software added to HP Storage Controllers.
		Changed	Updated max HDD and memory capacity due to new options added. HP SmartCache Software, HP Disk Backup System, HP Uninterruptible Power Systems (UPS) were
			updated.
Mar-30-2015	From Version 7 to 8	Added	New Hard Drives offering.
			Optical Software added to HP Storage Controllers.
			Added new HP Care Pack Services.
			Added new HP PCIe Workload Accelerator Options.
		Changed	What's New, Standard Features, Unique Options, Power Supplies, HP Storage Controllers, HP Disk Storage Systems, and Technical Specifications were revised.
		Removed	Removed obsolete HP Care Pack Services.
Feb-17-2015	From Version 6 to 7	Added	Added Smart Buy Models to the NA version only.
Feb-09-2015	From Version 5 to 6	Added	What's new section was added. Added new HDD offering, new computational Graphics options, and new G4 UPS models.
		Changed	HP Drives, HP Computation and Graphics Accelerators, HP Tape Backup, HP Disk Backup, HP Rack Mount, Consoles, KVM Switches, and Keyboards, and HP Uninterruptible Power Systems (UPS) sections were revised.
Dec-01-2014	From Version 4 to 5	Changed	Changes made throughout the entire QuickSpecs.
0ct-13-2014	From Version 3 to 4	Changed	Corrected inconsistencies between Product Bulletin and Concentra versions.
Oct-13-2014	From Version 2 to 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section.
			HP PCIe Workload Accelerator Options, HP USB and SD options, and HP Care Pack Services were added to the Additional Options section.
		Changed	Standard Features, Optional Features, Pre- Configured Models, Configuration Information -



Summary of Changes

			Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.
Sep-19-2014	From Version 1 to 2	Changed	Changes made throughout the entire QuickSpecs.



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