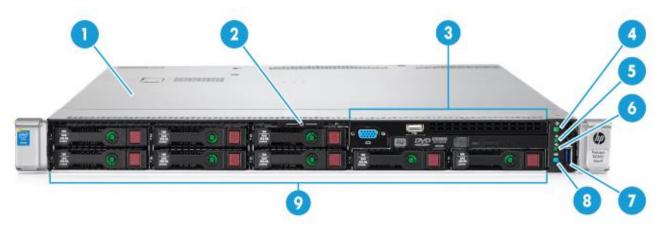
Overview

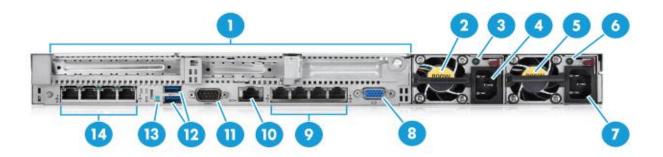
HP ProLiant DL360 Generation9 (Gen9)

HP's leading server for dense general-purpose computing, the HP ProLiant DL360 Gen9 Server delivers increased performance with the best memory and I/O expandability packed in a 1U dense rack design. Reliability, serviceability and always on availability, backed by a comprehensive warranty, make it ideal for the most space constrained server workloads.



Front View

- 1. Access Panel
- 2. Serial Label Pull Tab
- HP Universal Media Bay
 NOTE: Shown w/VGA, USB 2.0 and DVD-RW option.
 Alternative options 2 SFF HDDs or VGA and USB 2.0.
- Power On/Standby button and system power LED button
- 5. Health LED
- 6. NIC Status LED
- 7. USB 3.0 Connector
- 8. Unit Identification Button & LED
- SAS/SATA/SSD Drive Bays
 NOTE: 8SFF Model shown, 4LFF and 8 + 2SFF Models available.

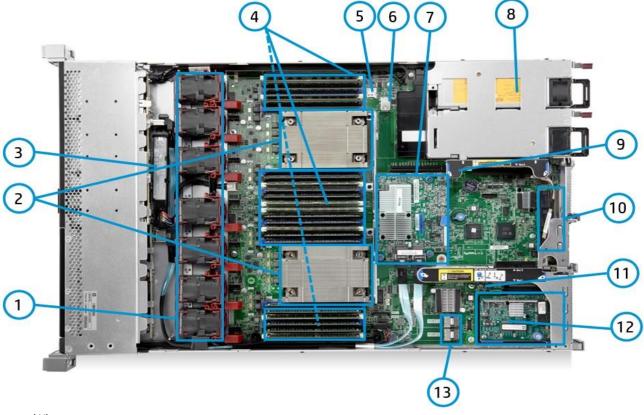


Rear view

- PCIe 3.0 Slots 1-3
 NOTE: Slot 1 and 2 Riser Ships Standard, Slot 3 Optional 1 FH /¾ length and two Low Profile slots available (shown) or two FH/ ¾ length slots.
- 2. HP Flexible Slot Power Supply Bay 2

Overview

- 3. Power Supply 2 Status LED
- 4. Power Supply 2 C13 Connection
- 5. HP Flexible Slot Power Supply Bay 1
- 6. Power Supply 1 Status LED
- 7. Power Supply 1 C13 Connection
- 8. Video Connector
- 9. Embedded 4x1GbE Network Adapter
- 10. Dedicated iLO 4 connector
- 11. Serial Port Connector (Optional)
- 12. USB 3.0 Connectors (2)
- 13. Unit Identification LED
- 14. FlexibleLOM bay (Optional) **NOTE:** Shown: 4x1Gbe.



Internal View

- 5 Standard Fans Ship for 1P and 7 Standard Fans Ship for 2P
 - **NOTE:** High Performance Fans also available as an option.
- 2. 2 Processors with HP Smart Socket Guide
- HP Smart Storage Battery (Optional)
- 4. 24 DDR4 DIMM slots (12 per processor)
- 5. MicroSD card slot
- 6. Dual Internal USB 3.0 connector
- 7. HP Flexible Smart Array or Smart HBA (Optional) NOTE: H240ar shown and P440ar available.
- 8. 2 HP Flexible Slot Power supplies
- 9. Secondary PCIe 3.0 riser for PCIe slot 3 (requires CPU 2)

Overview

- 10. Embedded 4x1Gbe NIC
- 11. Primary PCIe 3.0 riser for PCIe slots 1 & 2
- 12. FlexibleLOM Bay (Optional)
- 13. Embedded SATA Controller ports



Standard Features

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

Intel® Xeon® processor E5-2600 v3 product family is designed to deliver the best combination of performance, built-in capabilities, and costeffectiveness.

Processor

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

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) (24 x 16GB RDIMM @2133MHz) 384GB

NOTE: 64GB LRDIMMs, feature support to be available early 2015.

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.

4 x 6TB

4 x 6TB

QuickSpecs

Standard Features

Ex	nar	sion	s Sla	nts

Primary Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Forn	ı Factor	Notes
	1	PCle 3.0	x16	x16			nt, ¾ Length 9.5") Slot	Processor 1
	2	PCle 3.0	x8	x8		Low p	rofile slot	Processor 1
	NOTE: Bus V	Vidth indicate	s the number	of physical e	lectrical lanes i	running to th	e connector.	
Secondary Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
	3	PCIe 3.0	x16	x16			Low Profile	Processor 2
	3	PCle 3.0	x16	x16			Full Height, 3/4 Length (up to 9.5") Slot	Processor 2*
	*PCI-E Slot 2	cannot be us	ed in conjunct	ion with the	FH/¾ Length o	ption kit (74	4644-B21)	
Storage Controller	Entry Model	S	ŀ	IP Dynamic S	mart Array B14	Oi Controllei		
One of the following	Base Models HP H240ar Smart Host Bus Adapter							
depending on model	Performance Models HP Flexible Smart Array P440ar/2GB							
Internal Storage Devices One of the following depending on model	Optical Drive	N 4 N	LFF OTE: Two op	Kit 764632-B tion kits avail	21 VGA, USB 2.	drive: 7265	36-B21 or 726537-	B21;
	Hard Drives	N	None ship standard					
	Hard Drive B	·						
		4 LFF						
		1 N N ir n H	O SFF; 8 SFF NOTE: HP Prologer 19 Pro- OTE: All Pre- Installed. Shown ore using eit P LFF Hard Di	iant DL360 S configured M Ild the custor her P/N 6669 rive Blank Kit	odels come por mer need additi 987-B21: HP SF . These part nu	ffer both SFF oulated with onal hard dr F Hard Drive mbers for si	764630-B21 F and LFF models. some hard drive blaive blanks, they can Blank Kit or P/N 660 ngle HDD blanks bel D blanks for their se	order 5986-B21: ow are also

Maximum Inte	rnal	CAPACITY	CONFIGURATION
Storage	Hot Plug SFF SAS SSD	16.0TB	10 x 1.6TB
	Hot Plug SFF SATA SSD	8.0TB	10 x 800GB
	Hot Plug LFF SATA SSD	3.2TB	4 x 800GB
	Hot Plug LFF SAS SSD	6.4TB	4 x 1.6TB
	Hot Plug SFF SAS	12.0TB	10 x 1.2TB
	Hot Plug SFF SATA	10.0TB	10 x 1TB

Power Supply

One of the following depending on model HP 500W Flex Slot Platinum Hot Plug Power Supply

Hot Plug LFF SAS

Hot Plug LFF SATA

HP 800W Flex Slot Platinum Hot Plug Power Supply

HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply

NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

24.0TB

24.0TB

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 highefficiency 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.



Standard Features

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
1P model N/A 5 fans
Non-redundant Redundant
2P model N/A 7 fans

NOTE: The second processor option kit contains two fans.

NOTE: High Performance Fan Kit, 766201-B21, is available to meet some extended ambient operating temperatures above 35° C. Qualifications for extended ambient configurations are detailed at:

https://www.hp.com/servers/ashrae.

Interfaces

Serial

NOTE: Optional kit: 764646-B21.

Video 1 rear (Standard) 1 front (Optional)

NOTE: Front VGA options available for 8SFF and 4LFF models as detailed in the core options section of this

QuickSpecs.

Network RJ-45 (Ethernet)

Both the SFF and LFF models have an embedded 4x1GB NIC and a

FlexibleLOM bay. (See HP Networking section below for more details

and options).

HP iLO Remote Management Network 1Gb Dedicated

Port

SD Connector 1 micro SD Internal

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

slot while the server is powered.

USB 3.0 5 total: 2 rear, 1 front, 2 internal

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 including how to purchase from HP, please visit our OS Support Site at: http://www.hp.com/go/ossupport and our driver download page.

Upgradeability

Upgradeable to two processors (36 Cores)

Up to 24 DIMM slots available for higher Memory capacity Up to 10 SFF Hard Drive Bays; or 4 LFF Hard Drive Bays

FlexibleLOM slot for 1Gigabit or 10 Gigabit Ethernet or QDR/FDR InfiniBand networking options

3 PCIe 3.0 I/O slots for additional communications and storage expansion

NOTE: Slot 1 and 2 Riser Shipped Standard, Slot 3 Optional 1 FH / ¾ length and two Low Profile slots available (shown) or two FH/ ¾ length slots.

Redundant Power Supplies

Optical Drive supported via Universal Media Bay

NOTE: 8SFF Model via VGA, USB 2.0 and DVD-RW Option kit: 764732-B21; 4LFF Model via DVD-RW 726537-B21, DVD

726536-B21 and the Optical Cable: 766203-B21.

Standard Features

Industry Standard Compliance

ACPI 2.0b Compliant PCIe 3.0 Compliant **PXE Support WOL Support**

Microsoft® Logo certifications

USB 3.0 Support Energy Star ASHRAE A3/A4

NOTE: High Performance Fan Kit, 766201-B21, is available to meet some extended ambient operating temperatures above 35° C. Qualifications for extended ambient configurations are detailed at: https://www.hp.com/servers/ashrae.

Graphics

Integrated Matrox G200 video standard

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

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 UEFI FIO 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 1U Rack form factor

8 SFF Drive Bay Version and 10 SFF Drive Bay Version:

1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 27.5" (69.85cm) Length

4 LFF Drive Bay Version:

1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 29.5" (74.67cm) Length

Embedded Management

HP Integrated

Monitor your servers for ongoing management, service alerting, reporting and remote **Lights-Out (HP iLO)** management with iLO. Learn more at http://www.hp.com/go/ilo.

UEFI Configure 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.

Manager (HP SIM)

HP Systems Insight 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.

HP OneView Standard

HP OneView Standard can inventory, monitor, alert, and report on your G6, G7, Gen8, and Gen9 servers, while using the HP OneView user interface. Annual support is optionally available.

Learn more at http://www.hp.com/go/oneview.

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.

HP RESTful Interface Tool 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 Keyboard password

QuickLock, Network Server Mode

Serial interface control Administrator's password

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

iLO 4 can be disabled via a Global Setting

iLO Advanced supports directory services integration

TPM 1.2 UEFI

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.

Optional Features

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.

Management Utility (CMU)

HP Insight Cluster 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 Insight Cluster Management Utility (CMU)

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

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 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.

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



Optional Features

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/go/vsa1TB.

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

One Config Simple (SCE)

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



Service and Support

HP Technology Services

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.

HP Care Pack Services

Protect your business HP Care Pack Services enable you to order the right service level, length of coverage and response time as you **beyond warranty with** purchase your new server, giving you full entitlement for the term you select.

Optimized Support recommendation

HP Proactive Care - Call to Repair commitment, 24x7 coverage, three year Care Pack Service

Prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. Includes enhanced escalation management and the industry's highest level of hardware support commitment – hardware will be returned to operating conditions within six (6) hours after you open your case. Comes with collaborative software call management with two hour call back to reduce troubleshooting.

As a leading global support provider for Microsoft, Red Hat, VMware, SUSE and other operating systems, HP is able to simplify and shorten your time to resolution with one call for hardware or software questions. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf

HP ProLiant Server Hardware Installation

Help ensure your new HP ProLiant hardware is installed smoothly, efficiently and with minimal disruption to your IT and business operations. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

Standard Support recommendation

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

This service helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. Includes four hour response for hardware, and collaborative call management for software with a two hour callback.

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

HP ProLiant Hardware Installation

Help ensure your new HP ProLiant hardware is installed smoothly, efficiently and with minimal disruption to your IT and business operations. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

Related Services

Data Center Platform Consulting Services

These services help modernize key systems and leverage new technology to support a changing business climate and prepare you for the new style of IT. HP understands the needs of the data center of the future and will serve as your guide for the journey. http://www.hp.com/services/consulting

Data Privacy Services

Protect your data through better media management. HP Data privacy services help manage and protect sensitive data. 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. Choose how your factory solutions are built, tested, integrated, shipped and deployed. http://www.hp.com/go/factory-express

HP Foundation Care

Hardware and software support services provide easy connection to HP to resolve support issues quickly. Includes collaborative call management for industry leading software; full software support may also be purchased, giving you one place to call for help. http://www.hp.com/services/foundationcare

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

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.



Service and Support

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.



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.

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 (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.

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	Entry Models Base Models			
[SKU Number]	755260-B21	755261-B21	755262-B21		
Model Name	HP ProLiant DL360 Gen9 E5- 2603v3 1P 8GB-R B140i 500W PS Entry SATA Server	HP ProLiant DL360 Gen9 E5- 2603v3 1P 8GB-R H240ar 500W PS Entry SAS Server	HP ProLiant DL360 Gen9 E5- 2630v3 1P 16GB-R P440ar 500W PS Base SAS Server		
Processor	Intel® Xeon	® E5-2603v3	Intel® Xeon® E5-2630v3		
Number of Processors		One			
Memory	8GB (1x8GB Registered DIMMs, 2133 MHz) NOTE: The DIMM will operate at 1600 MHz with the E5-2603v3 Processor.	8GB (1x8GB Registered DIMMs, 2133 MHz) NOTE: The DIMM will operate at 1600 MHz with the E5-2603v3 Processor	16GB (1x16GB Registered DIMMs, 2133 MHz) NOTE: The DIMM will operate at 1866 MHz with the E5-2603v3 Processor		
Network Controller	HP E	HP Embedded 1Gb Ethernet 4-port 331i Adapter			
Storage Controller	HP Dynamic Smart Array B140i	HP H240ar Smart Host Bus Adapter	HP Flexible Smart Array P440ar/2GB		
Hard Drive	None ship standard NOTE: Only Supports SATA HDD unless HP Smart HBA or HP Smart Array Controller is added.	None shi	p standard		
Internal Storage		8 SFF HDD Bays			
Optical Drive Bay		Optional via Universal Media Bay			
PCI-Express Slots		2 Standard (1-FH/3/4 L, 1-LP) PCIe 3.	0		
Power Supply	(1)	(1) HP 500W Flex Slot Platinum Power Supply			
Fans	5 Standard hot plug fans, redundant				
Management	iLO Management (standard), Inte	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HP OneView (optional)			
Form Factor		Rack (1U), HP Easy Install Rails			
Warranty	Server Warranty includes 3-Year P	arts, 3-Year Labor, 3-Year Onsite sup	port with next business day response		

	Performance Models
[SKU Number]	755263-B21
Model Name	HP ProLiant DL360 Gen9 E5-2650v3 2P 32GB-R P440ar 800W RPS Performance SAS Server
Processor	Intel® Xeon® E5-2650v3
Number of Processors	Two
Memory	32GB (2x16GB Registered DIMMs, 2133 MHz)
Network Controller	HP Embedded 1Gb Ethernet 4-port 331i Adapter
Storage Controller	HP Flexible Smart Array P440ar/2GB
Hard Drive	None ship standard
Internal Storage	8 SFF HDD Bays
Optical Drive Bay	Optional via Universal Media Bay
PCI-Express Slots	2 Standard (1-FH/¾ L, 1-LP) PCIe 3.0



Pre-configured Models

Power Supply	(2) HP 800W Flex Slot Platinum Power Supply
Fans	7 standard hot plug fans, redundant
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HP OneView (optional)
Form Factor	Rack (1U), HP Easy Install Rails
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response



Configuration Information - Factory Integrated Models

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, 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 DL360 Gen9 4LFF Configure-to-order Server	HP ProLiant DL360 Gen9 8SFF Configure-to-order Server				
SKU Number	755259-B21	755258-B21				
Processor	2 (optional) x HP S	Smart Socket Guides				
DIMMSlots	24 DIMM slots for RDIM	24 DIMM slots for RDIMM, LRDIMM DDR4 Memory				
Storage Controller	HP Dynamic Smart Array B140i					
PCIe	2 PCIe 3.0 Slots: Slot 1, FH / ¾ Length; Slot 2, Low Profile					
Drive Cage	4LFF Hot Plug	8SFF Hot Plug				
Network Controller	HP Embedded 1Gb Ethernet 4-port 331i Adapter					
Fans	5 Standard hot plug 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					
Ears	HP Quick Release Ears					

NOTE: 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.

NOTE: Factory Integrated Models must start with a CTO Server.

NOTE: FIO indicates that this option is only available as a factory installable option.

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

NOTE: 4LFF CTO Server includes 1 SATA Cable, option kit: 766213-B21, which attaches to the B140i controller.

NOTE: 8SFF CTO Server includes two 4 x Mini-SAS Cables, option kit: 766209-B21, which attaches to an optional HP Smart HBA H240ar or HP Smart Array P440ar controller.

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

HP Processors Entry Processors- E5-2600v3 series Processors

HP DL360 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit	755374-L21
HP DL360 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit	755378-L21
Base Processors- E5-2600v3 series Processors	
HP DL360 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit	755382-L21
HP DL360 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit	755376-L21
HP DL360 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit	755384-L21
HP DL360 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit	755404-L21
HP DL360 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	755386-L21
HP DL360 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit	764097-L21
Performance Processors- E5-2600v3 series Processors	
HP DL360 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor Kit	755406-L21
HP DL360 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit	755388-L21
HP DL360 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	755390-L21
HP DL360 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit	755408-L21



Configuration Information - Factory Integrated Models

HP DL360 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) FIO Processor Kit	755392-L21
HP DL360 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	755394-L21
HP DL360 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit	755398-L21
HP DL360 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit	755396-L21
HP DL360 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit	755400-L21
HP DL360 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit	755402-L21
HP DL360 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit	764099-L21
HP DL360 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit	780003-L21
HP DL360 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	764101-L21
HP DL360 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit	755410-L21

NOTE: If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.

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

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: 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

NOTE: Select one or more memory from section below.

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

NOTE: 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.

NOTE: If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available.

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

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

Registered DIMMs (RDIMMs) for E5-2600v3 Series

HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
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

HP Power Supplies

NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

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: www.hp.com/go/hppoweradvisor.

HP Flex Slot Platinum Hot-plug Power Supplies

HP 500W Flex Slot Platinum Hot Plug Power Supply Kit	720478-B21
HP 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit	720620-B21

Step 3: Choose Additional Factory Integratable Options

HP Storage Controllers

NOTE: The embedded B140i controller will be used as the primary controller if no controller has been selected from the list below. Embedded SATA controller can support up to 8 SATA hard drives. Cable kit may be required.

HP Smart Array Controllers

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

749974-B21



Configuration Information - Factory Integrated Models

	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes 1 PCIe slot. NOTE: Includes the HP Smart Storage Battery	761872-B21
	HP Smart Host Bus Adapters HP H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	749976-B21
	HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter HP Cable Options	761873-B21
	HP DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable NOTE: Required with PN: 749974-B21 or PN: 749976-B21 if using the HP ProLiant DL360 Gen9 4LFF CTO Server (PN: 755259-B21).	766211-B21
	HP DL360 Gen9 SFF Embedded SATA Cable NOTE: Required with HP ProLiant DL360 Gen9 8SFF CTO Server (PN: 755258-B21) if using the embedded B140i as primary controller.	766207-B21
	HP DL360 Gen9 SFF Smart Array P440/H240 SAS Cables NOTE: Required with PN: 761872-B21 or PN: 761873-B21 if using the HP ProLiant DL360 Gen9 8SFF CTO Server (PN: 755258-B21).	775927-B21
	HP DL360 Gen9 LFF Smart Array P440/H240 SAS Cables NOTE: Required with PN: 761872-B21 or PN: 761873-B21 if using the HP ProLiant DL360 Gen9 4LFF CTO Server (PN: 755259-B21).	775929-B21
BIOS Mode	HP Legacy FIO Mode Setting NOTE: If selected, then B140i will not be supported and can no longer be a primary controller therefore, SAS internal controller must be selected to be the primary controller.	758959-B22
Controller State	HP FIO Enable B140i Setting	784308-B21
	NOTE: Must be selected when B140i is used as the primary controller and RAID is desired. HP Mfg FIO Enable HBA Mode Setting NOTE: When selected if H240ar/H240 are used as the primary controller then RAID is not allowed.	792962-B21
Embedded Management	HP iLO Advanced HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO E-LTU	C6N36A C6N36ABE
HP Converged Infrastructure Management Software	HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic	E5Y43A

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

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

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 configui

	r. Contact your local sales representative for additional information.	ends the use of diffi
	r. Contact your local sales representative for additional information. HP DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit NOTE: Required when upgrading an 8SFF config to a 10SFF config, not supported in 4LFF Model; when this option kit is installed it cannot be used in conjunction with the optical drive or USB 2.0/VGA option kits. NOTE: Adds 2SFF drives to the 8SFF model for a total of 10SFF SAS/SATA drives. This kit comes with the cable needed to attach the 2 drives to the internal B140i SATA controller. For SAS, an alternate storage controller and its associated cable kit are required. HP DL360 Gen9 SFF DVD/USB Universal Media Bay Kit NOTE: DVD RW (Drive Included), USB 2.0, and VGA; when this option kit is installed it cannot be used in conjunction with the 2 SFF SAS/SATA option kit. HP DL360 Gen9 SFF USB/VGA Universal Media Bay Kit	764632-B21 764634-B21
	NOTE: Front USB 2.0 and VGA, when this option kit is installed it cannot be used in conjunction with the 2 SFF SAS/SATA option kit. HP DL360 Gen9 Location Discovery Services Ear Kit	764757-B21
	NOTE: Requires ProLiant Location Discovery Services Infrastructure within server racks.	754545 P24
	HP DL360 Gen9 Serial Cable	764646-B21
	HP DL360 Gen9 SFF Systems Insight Display Kit NOTE: For the 8SFF or 10SFF models, adds a System Insight Display for improved diagnosis capabilities.	764636-B21
	HP DL360 Gen9 LFF USB/VGA Kit NOTE: Adds front VGA and USB 2.0 ports to LFF.	764638-B21
	NOTE: For the 8SFF or 10SFF models, adds a System Insight Display for improved diagnosis capabilities. NOTE: Options noted with "DL360 Gen9 SFF" are options only compatible with the 8 SFF Chassis; and Options noted with "DL360 Gen9 LFF" are options only compatible with the 4LFF Chassis.	
HP Processors	Entry Processors - E5-2600v3 series Processors	
	HP DL360 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	755374-B21
	HP DL360 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	755378-B21
	Base Processors - E5-2600v3 series Processors	
	HP DL360 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	755382-B21
	HP DL360 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	755376-B21
	HP DL360 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	755384-B21
	HP DL360 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit	755404-B21
	HP DL360 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	755386-B21
	HP DL360 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	764097-B21
	Performance Processors - E5-2600v3 series Processors	
	HP DL360 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit	755406-B21
	HP DL360 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	755388-B21
	HP DL360 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	755390-B21
	HP DL360 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor Kit	755408-B21
	HP DL360 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor Kit	755392-B21
	HP DL360 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor Kit	755394-B21
	HP DL360 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor Kit	755398-B21
	HP DL360 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit	755396-B21
	HP DL360 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit	755400-B21

HP DL360 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor Kit

755402-B21

	HP DL360 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit	764099-B21
	HP DL360 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit	780003-B21
	HP DL360 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	764101-B21
	HP DL360 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit	755410-B21
	NOTE: Processor XXXXXX-B21 option kits include 1 heat sink and two additional fans for 2P configs.	
IP Memory	Registered DIMMs (RDIMMs) for E5-2600v3 Series	
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
	HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
	HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	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: Memory speeds will vary by processor model, please see memory section of QuickSpecs.	
HP Optical Drives	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive NOTE: Supported only with the 4LFF Models & requires cable kit 766203-B21.	726536-B21
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive NOTE: Supported only with the 4LFF Models & requires cable kit 766203-B21.	726537-B21
	HP DL360 Gen9 LFF Optical Cable	766203-B21
	HP DL360 Gen9 SFF DVD/USB Universal Media Bay Kit NOTE: Front DVD-RW, USB 2.0 and VGA, and optical cable.	764632-B21
	UD M 1 II USD N	
	HP Mobile USB Non Leaded System DVD RW Drive NOTE: External USB Drive.	701498-B21
HP Drives		701498-B21
HP Drives	NOTE: External USB Drive.	701498-B21 718162-B21
HP Drives	NOTE: External USB Drive. SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
1P Drives	NOTE: External USB Drive. SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21
HP Drives	NOTE: External USB Drive. SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652605-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 146GB 6G SAS 7.5K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652605-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652605-B21 652749-B21 652745-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652564-B21 652749-B21 652745-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652605-B21 652749-B21 652745-B21 765424-B21 737394-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652564-B21 652749-B21 652745-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652564-B21 652749-B21 765424-B21 737394-B21 737261-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652605-B21 652749-B21 765424-B21 737394-B21 737261-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	718162-B21 652589-B21 759212-B21 652583-B21 759210-B21 652572-B21 759208-B21 652564-B21 652564-B21 652749-B21 765424-B21 737394-B21 737261-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	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-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	
HP 800GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741159-B21
HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741155-B21
HP 200GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741151-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741146-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741142-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741138-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691868-B21
HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691866-B21
HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691864-B21
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	757339-B21
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717973-B21
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21



HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739888-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717969-B21
6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value G1 Solid State Drives	
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756657-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756636-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756621-B21
HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive	756601-B21
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 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 (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 Hard Drive Blank Kits	734362-B21

	HP Large Form Factor Hard Drive Blank Kit	666986-B21
	HP Small Form Factor Hard Drive Blank Kit	666987-B21
	Hard Drive Kits	
	HP DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit NOTE: Not supported in the 4LFF Models, required for 10SFF config, when added to the 8SFF Model.	764630-B21
HP Networking	1 Gigabit Ethernet adapters	
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	10 Gigabit Ethernet adapters	
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	FlexibleLOM Adapters	
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
	HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs.	
HP InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter	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
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_na/13078_na.html.	
HP I/O Expansion Options	HP DL360 Gen9 Low Profile PCIe Slot CPU2 Kit NOTE: Add 3 rd PCIe slot into server connected to CPU 2. NOTE: After installation sever will have 1 FH / ¾ Length, and 2 Low Profile PCIe 3.0 Slots, requires second CPU.	764642-B21
	HP DL360 Gen9 Full Height PCIe Slot CPU2 Kit with GPU Power Cable NOTE: After installation the server will have 2 FH / ¾ Length PCIe 3.0 Slots, requires second CPU. NOTE: Includes GPU power cable and bracket; when this option kit is installed the Low	764644-B21
	Profile PCIe3.0 riser is not useable.	
HP Power Supplies	HP Flex Slot Platinum Hot-plug Power supplies	
	HP 500W Flex Slot Platinum Hot Plug Power Supply Kit	720478-B21
	HP 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
	HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit	720620-B21
	NOTE: 1400W Power Supply contains intelligent power discovery feature. NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.	

Core Options

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.

HP Computation and Graphics Accelerators

HP NVIDIA Quadro K4200 Graphics Accelerator

JOG90A

Graphics Accelerators NOTE: HP DL360 Gen9 supports up to two K4200 GPU cards. A single K4200 card installed in the primary PCI-e slot requires the Gen9 GPU Cable for CPU1 Kit 766199-B21. Two cards installed in the both the primary and secondary PCI-e slots require an HP DL360 Gen9 Full Height PCIe Slot CPU2 Kit 764644-B21, and if the HDD need to be RAIDed, the HP Smart Array P440ar for two GPUS needs to be installed, option kit 726740-B21.

HP NVIDIA Quadro K2200 Graphics Accelerator

JOG89A

NOTE: Supports up to two cards. Two cards installed in the both the primary and secondary PCI-e slots require an HP DL360 Gen9 Full Height PCIe Slot CPU2 Kit 764644-B21. If two K2200 GPU cards are installed it does not require HP Smart Array P440ar for two GPU option kits for RAIDed HDDs.

HP DL360 Gen9 GPU Cable for CPU1 Kit

766199-B21

NOTE: Includes GPU power cable and brackets.

NOTE: Only the above listed Graphics cards are HP standard supported options in this server.

NOTE: The NVIDIA 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.

HP Cooling Options

HP DL360 Gen9 High Performance Fan Kit

766201-B21

NOTE: High Performance Fan Kit, is available to meet some extended ambient operating temperatures above 35° C. Qualifications for extended ambient configurations are detailed at: https://www.hp.com/servers/ashrae.



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 Software

HP Insight Control

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 24x7 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_na/12631_na.html.

Embedded Management

HP iLO Advanced

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

HP Converged Infrastructure Management Software

HP OneView Advanced (with HP iLO Advanced)

HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34A
HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y35AAE
HP OneView incl 3yr 24x7 Supp Bundle 1 Svr E-LTU	E5Y43AAE

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

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

NOTE: For additional license kits please see the QuickSpecs at

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

HP PCIe Workload Accelerator Options

Value Endurance (VE) PCIe Workload Accelerators



	HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21
	HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763838-B21
	HP 1.6TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763836-B21
	HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763834-B21
	Light Endurance (LE) PCIe Workload Accelerators	
	HP 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21
	HP 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775670-B21
	HP 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775668-B21
	-	
	HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775666-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/quickspecs/14528_na/14528_na.html	
HP Security	HP 1U Security Bezel Kit	664918-B21
	HP Trusted Platform Module Option	488069-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 Controllers	
		726736-B21
	HP Smart Array Controllers HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller	726736-B21 766205-B21
	HP Smart Array Controllers HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart	
	HP Smart Array Controllers HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique	766205-B21
	HP Smart Array Controllers HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit.	766205-B21 726740-B21
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCle slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit. HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes 1 PCle slot.	766205-B21 726740-B21 726825-B21
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit. HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes 1 PCIe slot. NOTE: Includes the HP Smart Storage Battery.	766205-B21 726740-B21 726825-B21
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCle slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit. HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes 1 PCle slot. NOTE: Includes the HP Smart Storage Battery. HP Smart Host Bus Adapters HP H240ar 12Gb 2-ports Int Smart Host Bus Adapter	766205-B21 726740-B21 726825-B21 726821-B21
	HP Smart Array Controllers HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCle slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit. HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes 1 PCle slot. NOTE: Includes the HP Smart Storage Battery. HP Smart Host Bus Adapters HP H240ar 12Gb 2-ports Int Smart Host Bus Adapter NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCle slot. HP H240 12Gb 2-ports Int Smart Host Bus Adapter	766205-B21 726740-B21 726825-B21 726821-B21 726757-B21
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCle slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit. HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes 1 PCle slot. NOTE: Includes the HP Smart Storage Battery. HP Smart Host Bus Adapters HP H240ar 12Gb 2-ports Int Smart Host Bus Adapter NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCle slot. HP H240 12Gb 2-ports Int Smart Host Bus Adapter HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	766205-B21 726740-B21 726825-B21 726821-B21 726757-B21 726907-B21
	HP Smart Array Controllers HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCle slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit. HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes 1 PCle slot. NOTE: Includes the HP Smart Storage Battery. HP Smart Host Bus Adapters HP H240ar 12Gb 2-ports Int Smart Host Bus Adapter NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCle slot. HP H240 12Gb 2-ports Int Smart Host Bus Adapter	766205-B21 726740-B21 726825-B21 726821-B21 726757-B21 726907-B21
	HP Smart Array Controllers HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HP Smart Storage Battery, and associated cabling to attach it to a 10SFF chassis configuration. HP DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations NOTE: This controller is specific for the DL360 Gen9 with 2 GPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit. HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives, consumes 1 PCIe slot. NOTE: Includes the HP Smart Storage Battery. HP Smart Host Bus Adapters HP H240ar 12Gb 2-ports Int Smart Host Bus Adapter NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. HP H240 12Gb 2-ports Int Smart Host Bus Adapter HP H241 12Gb 2-ports Ext Smart Host Bus Adapter HP H241 12Gb 2-ports Ext Smart Host Bus Adapter HP Cable Options HP DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable NOTE: Required for an upgrade from a B140i SATA controller to a HP Smart HBA 240ar or	766205-B21 726740-B21 726825-B21 726821-B21 726757-B21 726907-B21 726911-B21



NOTE: Required for use with the HP Smart Array P440 (PCIe Controllers) 726821-B21 or 761872-B21, the option kit documentation details out cable placement with the HP Smart Array P440 in PCIe 3.0 Slots 1 or 2 connecting to the 8SFF backplane or the 2 SFF SAS/SATA option kit.

HP DL360 Gen9 LFF Smart Array P440/H240 SAS Cables

775929-B21

NOTE: Required for use with the HP Smart Array P440 (PCIe Controllers) 726821-B21 or 761872-B21, the option kit documentation details out cable placement with the HP Smart Array P440 in PCIe 3.0 Slots 1 or 2 connecting to the 4LFF backplane.

HP DL360 Gen9 SFF Smart Array P440ar/H240ar SAS Cable

766209-B21

HP DL360 Gen9 LFF Embedded SATA Cable

766213-B21

NOTE: Options noted with "DL360 Gen9 SFF..." are options only compatible with the 8 SFF Model; and Options noted with "DL360 Gen9 LFF..." are options only compatible with the 4LFF Model.

Optional Upgrades

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

727258-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 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-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	EH946C
HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	EJ014B
HP StoreEver LTO-5 Ultrium 3280 SAS Tape Drive in 3U Rack-mount	EJ013B
HP StoreEver 1U SAS Rack-mount Kit	AE459B

HP Tape Storage Systems

HP StoreEver MSL6480

HP StoreEver MSL6480 Scaleable Expansion Module	
NOTE: Please see the Quick Specs for Technical Specifications and additional information:	

http://h18000.www1.hp.com/products/quickspecs/14604 na/14604 na.html

QU625A
AK379A
AK381A
AQ746A

HP Storage Options

Fibre Channel HBA

NOTE: The following is a list of all Fibre Channel Host Bus Adapters for Windows and Linux. For detailed compatibility information 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	QW972A

Converged Network Adapter

HP StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
HP StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A

Additional Options

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 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 11614 1075mm Shock Universal Rack	H6J82A	
	HP 11622 G2 1075mm Pallet Universal Rack	H6J83A	
	HP 11622 G2 1075mm Shock Universal Rack	H6J84A	
	HP 11648 1075mm Pallet Universal Rack	H6J87A	
	HP 11648 1075mm Shock Universal Rack	H6J88A	
	NOTE: Please see the HP 11000 G2 Series Racks QuickSpecs for information on additional		
	racks options and rack specifications.		
	HP Intelligent Series Rack		
	HP 636 1075mm Pallet Intelligent Series Rack	BW895A	
	HP 636 1075mm Shock Intelligent Series Rack	BW896A	
	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 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 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 NOTE: Please see the HP Value Series Rack QuickSpecs for information on additional racks options and rack specifications.	AF046A	
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 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 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU	H5M60A
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 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67A
HP 13.2kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU	H3X07A
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 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit	AF512A
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
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)	DONASA
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 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU	D9N47A
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 Monitored PDU	D9N53A
HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU	D9N49A
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 Monitored PDU	G9Z07A
HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU	D9N63A
HP Environmental Sensor for Remote Monitored PDUs	E2D53A
NOTE: Please see the HP Monitored Power Distribution Units QuickSpecs for information on addition product specifications.	nal options and
HP Intelligent Power Distribution Units (iPDU)	AFE30.4
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 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 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 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 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	H8B53A
PDU	
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 QuickSpecs for Technical Specifications and additional information:	
http://www8.hp.com/h20195/v2/GetHtml.aspx?docname=c04376687	
NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page.	

HP Rack Mount Consoles, KVM Switches, and Keyboards

HP 36U Location Discovery Kit	BW945A
HP 42U Location Discovery Kit	BW946A
HP 47U Location Discovery Kit	BW947A
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14429_na/14429_na.html

HP Rack Mount Consoles

HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor	AZ870A
HP TFT7600 G2 KVM Console Rackmount Keyboard US TAA Monitor	AZ885A
NOTE: Please see the HP Rack Console QuickSpecs for information on additional options	
and product specifications.	

HP KVM Switches

HP Server Console 0x2x8 Port Analog Switch	AF616A
HP Server Console 0x2x16 Port Analog Switch	AF617A
HP TAA 0x2x16xKVM Server Console G2 Switch	AF626A
HP 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 NOTE: To learn more, please visit the HP KVM Switches web page.	AF622A

HP USB Keyboard and Mouse

HP USB BFR with PVC Free US Keyboard/Mouse Kit 631341-B21

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

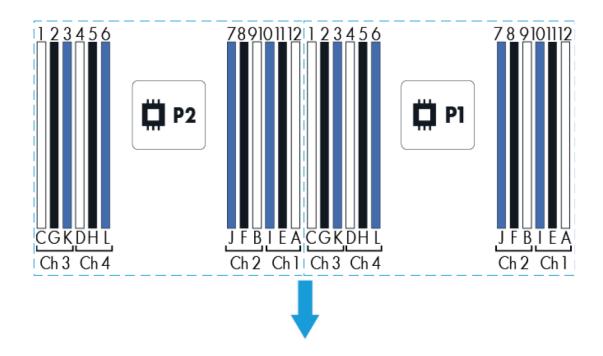


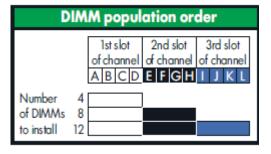
	Rail Kits	
	HP 1U LFF Gen9 Easy Install Rail Kit	789388-B21
	HP 1U Small Form Factor Easy Install Rail Kit	734807-B21
	HP 1U Cable Management Arm for Easy Install Rail Kit	734811-B21
	HP 1U Small Form Factor Ball Bearing Rail Kit	663201-B21
	HP 1U Large Form Factor Ball Bearing Rail Kit	663202-B21
	HP 1U Cable Management Arm for Ball Bearing Rail Kit	663203-B21
HP Uninterruptible	HP Rack-mountable UPS	
Power Systems (UPS)		
	HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A
	HP R/T3000 G2 Uninterruptible Power System (UPS)	
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A
	R5000 Uninterruptible Power System (UPS)	
	HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
	R7000 Uninterruptible Power System (UPS)	
	HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
	HP T750 G2 UPS Models	
	HP T750 G2 750VA NA Tower Uninterruptible Power System	AF446A
	HP T1500 G3 UPS Models	
	HP T1500 G3 1400VA NA Tower Uninterruptible Power System	AF450A
	NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page.	
HP USB and SD	HP Enterprise Mainstream Flash Media Kits for Memory Cards	
Options	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 Care Pack	Installation & Start-up Services	
Services	HP Install ProLiant DL36x(p) Service	U4506E
	HP Startup ProLiant DL36x(p) Service	U4507E
	Proactive Care	
	HP 3 year 24x7 DL360 Gen9 w/IC Proactive Care Service	U5HM4E
	HP 3 year 24x7 with Defective Media Retention DL360 Gen9 w/IC Proactive Care Service	U5HM5E
	HP 3 year 24x7 w/Comprehensive Defective Material Retention DL360 Gen9 w/IC Proactive Care Service	U5HM6E
	HP 3 year Call to Repair DL360 Gen9 w/IC Proactive Care Service	U5HN3E
	HP 3 year Call to Repair with Defective Media Retention DL360 Gen9 w/IC Proactive Care Service	U5HN4E
	HP 3 year CTR with Comprehensive Defective Material Retention DL360 Gen9 w/IC Proactive Care Service	U5HN5E
	HP 3 year 24x7 DL360 Gen9 Proactive Care Service	U7AM2E
	HP 3 year 24x7 with Defective Media Retention DL360 Gen9 Proactive Care Service	U7AM3E
	HP 3 year 24x7 with Comprehensive Defective Material Retention DL360 Gen9 Proactive	U7AM4E
	Care Service	
	Care Service HP 3 year Call to Repair DL360 Gen9 Proactive Care Service	U7AM8E
		U7AM8E U7AM9E

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.
- . 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.
- . 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 DL360 Gen9 Server.
- For memory population rules and additional memory guidelines, please see the DL360 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

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)					Unbuffered with ECC DIMMs (UDIMMs)	
DIMM Rank	Single R	lank		Dual Rank		Quad Rank	
DIMM Capacity	4GB	8G	iB	1	6GB	32GB	
Voltage			Std Vo	ltage 1.2V			
SLOTS THAT CAN BE POPULATED							
24 slot servers				24			
MAXIMUM CAPACITY (GB)							
	96	19	12	384		768	
1 DIMM Per Channel	_	2133					
2 DIMM Per Channel		2133					
3 DIMM Per Channel	1600	1600 160		1600	1600		

DIMM slot and configuration diagram

DIMM slot and configuration diagrams

- Population order; start with "A" first, "B" second, "C" third, etc.
- When one processor is installed, install DIMMs in sequential alphabetic order: A, B, C, D, E, F ...
- When two processors are installed, install DIMMs in sequential
- alphabetic order: CPU1-A, CPU2-A, CPU1-B, CPU2-B, CPU1-C, CP2-C

Memory Speed by Processor Model

Processor Models	Supported Memory Speeds
E5-2603v3, E5-2609v3,	1600MHz
E5-2620v3, E5-2623v3, E5-2630v3, E5-2640v3, E5- 2630Lv3,	1866MHz
E5-2637v3, E5-2643v3, E5-2650v3, E5-2660v3, E5- 2667v3, E5-2670v3, E5-2680v3, E5-2683v3, E5-2690v3, E5-2695v3, E5-2697v3, E5-2698v3, E5-2699v3, E5- 2650Lv3, 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
E5-2603v3,	8GB (1x8GB)	376GB (23x16GB, 1x8GB)	768GB (24x32GB)
E5-2630v3,	16GB (1x16GB)	384GB (23x16GB, 1x16GB)	768GB (24x32GB)
E5-2650v3,	32GB (2x16GB)	384GB (22x16GB, 2x16GB)	768GB (24x32GB)

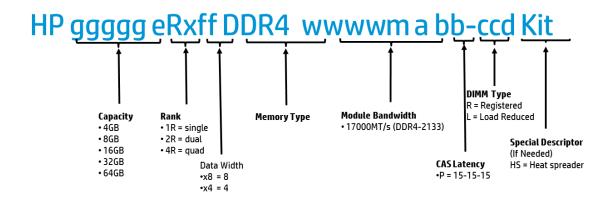


Memory

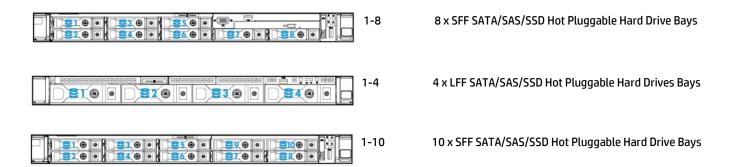
DDR4 memory options part number decoder

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

- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



Storage



Technical Specifications

System	Unit
--------	------

Dimensions 8 SFF and 10 SFF 1.7 x 17.1 x 27.5 inches (4.32 x 43.47 x 69.85 cm)

 $(H \times W \times D)$ 4 LFF - 1.7 x 17.1 x 29.5 inches (4.32 x 43.46 x 75.0 cm)

Weight 8 SFF Chassis 33.3 lb. (15.31 kg) NOTE: Includes 2 SFF Option for a total Maximum:

(approximate) (all hard drives. power supply, and

processor installed)

4 LFF Chassis 37 lb. (16.78kg)

Minimum: 8SFF Chassis 27 lb. (12.25 kg) (one hard drive, power supply, and

4 LFF Chassis 30.36 lb. (13.77 kg)

Input Requirements Range Line Voltage

processor installed)

100 to 120 VAC 200 to 240 VAC

of 10 SFF HDD

BTU Rating

Maximum

Power

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

Rated Steady-State

For 1400W Power Supply: 1400W (at 100 VAC), 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 100 to 127 VAC), 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. For approved hardware configurations, the supported system inlet range is extended to be: 5° to 40°C (41° 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: 5° to 45°C (41° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae. System performance 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



Technical Specifications

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

System performance may be reduced if operating in the extended

ambient operating range or with a fan fault.

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 (1P non-redundant) 4.6 A Average Bystander

(2P redundant) 5.5 A Average Bystander

L pAm (1P non-redundant) 29 dBA

(2P redundant) 37 dBA

Operating

L WAd (1P non-redundant) 4.6 A Average Bystander

(2P redundant) 6.2 C Average Bystander

L pAm (1P non-redundant) 30 dBA

(2P redundant) 46 dBA

NOTE: 1P Configuration tested included two Intel E5-2630 v3, 2.3GHz processors, one 500GB SAS HDD, five standard hot plug fans, one 8GB DDR4 RDIMM's 2133MHz, one 500W power supply.

NOTE: 2P Configuration tested included two Intel E5-2650 v3, 2.6GHz processors, one 500GB SAS HDD, seven standard hot plug fans, two 16GB DDR4 RDIMM's 2133MHz, one 500W power

supply, P440ar HDD controller PCI card with 2GB cache.

NOTE: Values are subject to change without notification and are for reference only.

NOTE: Performance of system, options, and ancillary equipment will vary depending on the system configuration.

NOTE: Levels presented do not account for non-Hewlett-Packard installed hardware.

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.

HP Dynamic Smart Number of PCI links Four Array B140i PCI link rate 4 Gb/s Controller

Storage protocol

SATA

support

Technical Specifications

SAS/SATA peak data tranfer rate 6 Gb/s

Number of SAS/SATA links 10 links

SAS/SATA

2x4 connectors; 2x1 connectors

connectivity

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

License

Not Supported

HP Smart Storage

Administrator

Supported

port 331i Adapter

HP Ethernet 1Gb 4- 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

Rate

10Base-T (Half-

Duplex)

10Base-T (Full-

Duplex)

100Base-TX (Half-

Duplex)

200 Mb/s per port, 800 Mb/s combined 100Base-TX (Full-

Duplex)

1000Base-TX (Half

and Full-Duplex)

1000Mb/s per port, 4000 Mb/s combined

1000Base-TX (Full- 2000Mb/s per port, 8000 Mb/s combined

Duplex)

Connector Four RJ-45

Cable Support

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

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

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

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

Category 5 or higher UTP; up to 328 ft (100 m) 10/100/1000 Base-TX

Environment-friendly End-of-life **Products and Approach 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: 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.



Technical Specifications





Summary of Changes

Date	Version History	Action	Description of Change
12/01/2014	From Version 3 to 4	Changed	Changes made throughout the QuickSpecs.
10/13/2014	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 were added to the Additional Options section.
		Changed	Call outs description for images, Standard Features, Optional Features, Pre-Configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.
9/22/2014	From Version 1 to 2	Changed	Changes made throughout the QuickSpecs.

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