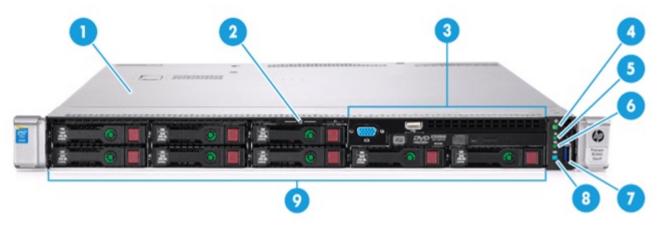
Overview

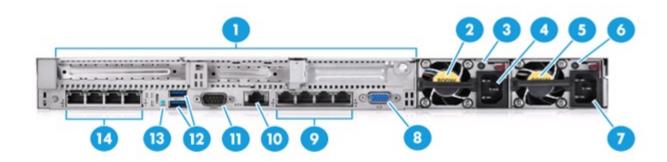
HP's leading server for dense general-purpose computing, the HP ProLiant DL360 Gen9 Server delivers increased performance with the best memory and I/O expandability packed in a 1U dense rack design. Reliability, serviceability and always on availability, backed by a comprehensive warranty, make it ideal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



Front View

- Quick Removal Access Panel
- 2. Serial Label Pull Tab
- 3. HP Universal Media Bay (shown w/VGA and USB connector and DVD-RW option, alternative option 2 SFF HDDs)

 NOTE: (shown w/VGA and USB connector and DVD-RW option, alternative option 2 SFF HDDs)
- 4. Power On/Standby button and system power LED button
- Health LED
- 6. NIC Status
- 7. USB 3.0 Connector
- 8. UID LED
- 9. HDD Bays, 8SFF Model Shown, 4 LFF and 8 + 2 SFF Models available



Rear view

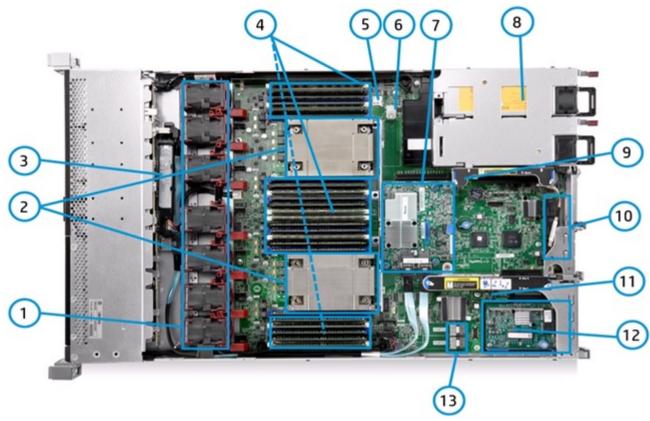
- 1. PCIe Slots 1-3
 - NOTE: Slot 1 and 2 Riser Shipped Standard, Slot 3 Optional
- 2. HP Flexible Power Supply Bay
- 3. Power Supply Power LED
- 4. Power Supply Power Connection
- 5. HP Flexible Slot Power Supply Bay 2
- 6. Power Supply LED
- 7. Power Supply Connection
- 8. VGA Connector



Overview

- 9. Embedded 4 x 1GbE Network Adapter
- 10. Dedicated iLO connector
- 11. Serial Connector
- 12. USB 3.0 Connectors (2)
- 13. Unit ID LED
- 14. Optional FlexibleLOM ports

NOTE: Shown: 4 x 1Gbe



Internal view

- 1. Fan cage shown with 6 High Ambient temperature Hot-plug fans (Standard fans also available)
- 2. 2 Processors, heatsink showing, with HP Smart Socket Guide
- 3. Optional HP Smart Storage Battery
- 4. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)
- 5. MicroSD card slot
- 6. Internal USB 3.0 connector
- 7. Optional HP Flexible Smart Array or Smart HBA (H240ar shown)
- 8. (Under) Hot Plug redundant HP Flexible Slot Power supplies
- 9. Connection for second (optional) riser (Required second CPU)
- 10. Embedded 4x1Gbe NIC
- 11. Primary PCle riser, standard (Optional single wide GPU riser)
- 12. Optional Flexible LOM slot
- 13. X4 SATA ports (1 and 2)



Standard Features

NOTE: For more information regarding Intel Xeon processors, please see the following URL: 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 cost-effectiveness. One (or two) of the following Intel® Xeon® E5-2600 v3 processors based on the model

Processor

One of the following depending on Model

Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
E5-2699v3	2.3GHz	18	45MB	145W	9.6GT/s	2133
E5-2698v3	2.3GHz	16	40MB	135W	9.6GT/s	2133
E5-2697v3	2.6GHz	14	35MB	145W	9.6GT/s	2133
E5-2695v3	2.3GHz	14	35MB	120W	9.6GT/s	2133
E5-2690v3	2.6GHz	12	30MB	135W	9.6GT/s	2133
E5-2687Wv3	3.1GHz	10	25MB	160W	9.6GT/s	2133
E5-2683v3	2.0GHz	14	35MB	120W	9.6GT/s	2133
E5-2680v3	2.5GHz	12	30MB	120W	9.6GT/s	2133
E5-2670v3	2.3GHz	12	30MB	120W	9.6GT/s	2133
E5-2667v3	3.2GHz	8	25MB	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	25MB	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	25MB	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	8.0GT/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 Management Chipset HP iLO (Firmware HP iLO4 2.0) 4GB NAND

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

in the iLO QuickSpecs.



Standard Features

Memory

One of the following depending on Model

Type

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

Maximum Capacity

(LRDIMM)

768GB

384GB

(24 x 32GB LRDIMM @2133MHz)

(24 x 16GB RDIMM @2133MHz)

(RDIMM)

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

switchesoperation to the spare rank.

Expansion Slots

Primary Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCle 3.0	x16	x16		Full Height, 3/4 Length (up to 9.5") Slot	Processor 1
	2	PCIe 3.0	x8	x8		Low profile	Processor 1

NOTE: Bus Width indicates the number of physical electrical lanes running to the 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 used in conjunction with the FH/3/4 Length option kit (744644-B21)

Storage Controller One of the following depending on Model Entry Models

HP Dynamic Smart Array B140i Controller

Base Models HP H240ar Smart Host Bus Adapter
Performance Models HP Flexible Smart Array P440ar/2GB



Internal Storage Devices

One of the following depending on Model

Optical Drives

8 SFF with optional Universal Media bay 4 SFF with optional Universal Media bay

Hard Drives

Hard Drive Bays

8 SFF with optional Universal Media bay

4 LFF

8 SFF with optional HP DL360 Gen9 2 SFF SAS/SATA kit

NOTE: HP ProLiant DL360 Series servers offer both SFF, and LFF

versions in CTO.

None ship standard

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 Gen8 Hard Drive Blank Kit or P/N 666986-B21: HP LFF Gen8 Hard Drive Blank Kit. These part numbers for single HDD blanks below are also provided should the customer require replacement HDD blanks for their server.

Maximum	Internal
Storage	

	CAPACITY	CONFIGURATION
Hot Plug SFF SAS SSD	8.0TB	10 x 800GB
Hot Plug SFF SATA SSD	4.0TB	10 x 400GB
Hot Plug LFF SATA SSD	3.2TB	4 x 800GB (with optional LFF drive cage)
Hot Plug SFF SAS	12.0TB	10 x 1.2TB
Hot Plug SFF SATA	10.0TB	10 x 1TB
Hot Plug LFF SAS	12.0TB	4 x 3TB (with optional LFF drive cage)
Hot Plug LFF SATA	16.0TB	4 x 4TB (with optional LFF drive cage)

Power Supply One of the following

One of the following depending on Model

HP 500W Flex Slot Platinum Hot Plug Power Supply

HP 800W Flex Slot Platinum Hot Plug Power Supply

HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply

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

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the ProLiant Power Cables web page.

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

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

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.



System Fans

One of the following depending on Model

Non-redundant

Redundant

5 fans

Non-redundant

Redundant

2P model

1P model

7 fans

NOTE: The second processor option kit contains two fans.

NOTE: High Performance Fan Kit is available to meet some extended ambient operating temperatures above 35 C on qualifying HW configurations as detailed in Core Options section of

this QuickSpec. Additional details can be found at: https://www.hp.com/servers/ashrae.

Interfaces Serial

NOTE: For Gen9 the serial port is now optional, kit: 764646-B21

Video 2 (1 front, 1 back) not active simultaneously

Network RJ-45 (Ethernet)

Both the SFF and LFF Chassis have an embedded 4 x

1GB NIC and a FlexibleLOM bay. (See HP Networking

section below for more details and options).

HP iLO Remote Management Network

Port

4 Gb Dedicated

SD Slot 1 micro SD Internal Secure

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 (secure)

NOTE: 8LFF & 12LFF drive cage models with Quick release latch rack ears supports front USB

3.0

Operating Systems and Microsoft Windows Server

Virtualization Software Canonical Ubuntu

Support for ProLiant

Servers

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 (24 cores)

Up to 24 DIMM slots available for higher Memory capacity Up to 8 SFF Hard Drive Bays; or 4 LFF Hard Drive Bays

NOTE: 10 SFF HDD can be achieved with the 8SFF Chassis and the 2 SFF Option Kit (764630-

B21)

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

Redundant Power Supply

Optical Drive supported via Universal Media Bay



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

Graphics

Integrated Matrox G200 video standard

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

HP iLO 4 On System Management Memory

- 16 MB Flash
- 256 MB DDR 3 with ECC (112 MB after ECC and video)

HP Server UEFI/Legacy HP Server UEFI /Legacy ROM 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 UEFI.

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 8 +2 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 Lights-Out (HP iLO) Monitor your servers for ongoing management, service alerting, reporting and remote management with iLO. Learn more at

www.hp.com/go/ilo.

UEFIConfigure and boot your servers securely with industry standard Unified

Extensible Firmware Interface (UEFI). Learn more at

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

www.hp.com/go/restfulapi.

Intelligent Provisioning Provision servers by discovering and deploying 1 to few servers with

Intelligent Provisioning. Learn more at 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

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

Server utilities

HP Smart Update

Optimize firmware and driver updates with HP Smart Update solutions.

Learn more at www.hp.com/go/smartupdate.

HP Systems Insight Manager (HP SIM)

HP SIM allows you to monitor the health of your HP ProLiant Servers and HP Integrity Servers, and also provides you with basic support for

non-HP servers.

HP SIM also integrates with HP SUM to provide quick and seamless

firmware updates. Learn more at www.hp.com/go/sim.

Scripting Tool Kit and Windows PowerShell

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

Scripting Tools for Windows PowerShell. Learn more at www.hp.com/go/ProLiantSTK or 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 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: www.hp.com/go/ilo/mobileapp.

additional information please visit. www.np.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

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



Standard Features

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.

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html



Optional Features

Embedded Management

iLO Advanced

HP iLO Advanced licenses offer smart remote functionality without compromise, for all HP ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HP iLO Advanced at www.hp.com/go/iloadvanced.

Server Management

HP Insight Control

HP Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see

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

HP OneView

Powerful converged management of servers, storage, and network for IT service automation and infrastructure simplicity, see

www.hp.com/go/oneview.

HP Insight Cluster Management Utility (CMU)

HP Insight Cluster Management Utility is a hyperscale-optimized management framework that includes software for the provisioning, control, performance management and monitoring of groups of nodes and infrastructure. Learn more at 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 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



Optional Features

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.

• HP StoreVirtual VSA

With HP StoreVirtual VSA you can use the power of virtualization to turn a set of heterogeneous and disconnected physical disk drives in your servers and storage devices into a single pool of logical storage capacity.

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

One Config Simple (SCE)

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



Service and Support

Service and Support

HP Technology Services for Industry Standard Servers and BladeSystem

Capitalizing on HP ProLiant server and HP BladeSystem capabilities requires a service partner who understands your increasingly complex business technology environment. That's why it makes sense to team up with the people who know HP infrastructure hardware and software best - the experienced professionals at HP Services.

What HP ProLiant and BladeSystem Services can do for you

HP ProLiant and BladeSystem Services can help you design, deploy, test, integrate, support, and manage IT and infrastructure solutions. This way, HP proposes services solutions that include more than just uplift of base warranty. Foundation Care services deliver scalable support-packages for HP industry-standard servers and software. You can choose the type and level of service that is most suitable for their business needs. New to this portfolio is HP Collaborative Support. If you are running business critical environments, HP offers Proactive Care or Critical Advantage. These services help deliver high levels of application availability through proactive service management and advanced technical response

You can get the support you need by choosing from one of a number of service packaged solutions we have designed to address wider set of customer support needs.

HP Technology Services meets business challenges with services offered in three support recommendations - **Optimized Care**, **Standard Care**, **and Basic Care** - available for each product group. Such support solutions enable customers to optimize technology operations, minimize risk and drive better business outcomes with easy-to-buy, easy-to-use scalable support recommendations for servers, storage, networking and software.

All three service recommendations include support services from the broader portfolio of Foundation Care and Proactive Care services.

Optimized Care

Optimized Care: Supports maintaining servers at optimum performance availability

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

HP Installation and Startup for Insight Control Software / HP SIM

Provides for the deployment and basic configuration of HP Insight Control or HP SIM (Systems Insight Manager) on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf

3-Year HP 24x7 4 hour Response, Proactive Care or Critical Advantage

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your query or issue end to end until resolved, delivering a single point of contact for you http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-2140ENW.pdf

Additional Services: Data Center Transformation Services

Standard Care

Standard Care: Service recommendation that maintains high level of server availability

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

HP Installation and Startup for Insight Control Software / HP SIM

Provides for the deployment and basic configuration of HP Insight Control or HP SIM (Systems Insight Manager) on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf



Service and Support

3-Year HP 24x7 4 hour Response, Collaborative Support

Offers customers a single point of contact for server problem diagnosis, hardware problem resolution, and basic software problem diagnosis, fault isolation, and resolution if available to HP. If the problem is with HP HW, the representative will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged. In case, the issue is with HP or supported third-party software product and cannot be resolved by applying known fixes, HP will contact the third-party vendor and create a problem incident on your behalf.

Additional Services: Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware) Installation & Start Up and Software Support; Microsoft or Linux or VMware education courses; +60 Proactive Select Credits.

Basic Care

Basic Care: delivers minimum recommended support service level

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

3-Year HP 24x7 4 hour Response, Hardware Support Onsite Service

Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf

Additional Services -Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware) Installation & Start Up and Software Support; +30 Proactive Select Credits, Factory Express.

Insight Remote Support

Provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. Learn more http://www.hp.com/go/insightremotesupport

HP Support Center

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

HP's Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HP Insight Remote Support and HP Support Center are available at no additional cost with a HP warranty, HP Care Pack or HP contractual support agreement.

*HP Support Center Mobile App is subject to local availability

Warranty / Service Coverage

For ProLiant servers and storage systems, the services cover HP-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HP as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.



Service and Support

For more information

To learn more on HP ProLiant servers and HP BladeSystem servers, please contact your HP sales representative or HP Authorized Channel Partner. Or visit:

http://www.hp.com/services/proliant



Pre-configured Models

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

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

NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either P/N 666987-B21: HP SFF Hard Drive Blank Kit or P/N 666986-B21: HP LFF Hard Drive Blank Kit.

NOTE: All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (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 Models

[SKU Number]	755260-B21	755261-B21	755262-B21	
Model Name	HP ProLiant DL360 Gen9 E5- 2603v3 1P 8GB-R B140i 500W	HP ProLiant DL360 Gen9 E5- 2603v3 1P 8GB-R P440ar 500W	HP ProLiant DL360 Gen9 E5- 2630v3 1P 16GB-R P440ar 500W	
	PS Entry SATA Server	PS Entry SAS Server	PS Base SAS Server	
Processor	Intel® Xeon® E5-2603v3	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)	
Network Controller	HP Em	nbedded 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		
Internal Storage		8 SFF HDD Bays		
Optical Drive Bay		Optional via Universal Media Bay		
Optical Drive				
	2 Standard (1-FH/3/4L, 1-LP) PCIe 3.0	2 Standard (1-FH/	HL, 1-LP) PCIe 3.0	
Power Supply	(1) Hi	P 500W Flex Slot Platinum Power	Supply	
Fans		5 Standard hot plug fans, redundar	nt	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HP OneView (optional)	iLO Management (standard), Intelligent Provisioning (standard), iLO		
Energy Star				
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			



Pre-configured Models

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 Controllei	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
Optical Drive	
PCI-Express Slots	3 Standard (1-FH/HL, 2-LP) PCIe 3.0
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)
Energy Star	
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

xx=AA1 PRC



Configuration Information - Factory Integrated Models

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

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

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

[Chassis]	HP ProLiant DL360 Gen9	HP ProLiant DL360 Gen9	
	4LFF Configure-to-order	8SFF Configure-to-order	
	Server	Server	
SKU Number	755259-B21	755258-B21	
Processor	2 (optional) x HP S	mart Socket Guides	
DIMMSlots	2 (optional) x HP S	mart Socket Guides	
Storage Controller	HP Dynamic Sn	nart Array B140i	
PCle			
Drive Cage	4LFF Hot Plug 8SFF Hot Plug		
Network Controller	HP Embedded 1Gb Ethernet 4-port 331i Adapter		
Fans			
Management	(standard), Intelligent Provisioning (standard),	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HP OneView (optional)	
USB			
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.

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

HP Processors

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

- If one processor is desired, select one xxxxxx-L21
- If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.
- Up to 2 processors supported. Mixing different processor models is not supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed
- For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicates the

Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 4 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) = version number.



Configuration Information - Factory Integrated Models

HP Memory

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

- LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM.
- HP memory from previous generation servers are not qualified or warranted with this HP ProLiant Server. HP SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9.
- If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available.
- Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient.
- Depending on the memory configuration and processor model, the memory speed may run at 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: www.hp.com/go/ddr4memory-configurator

HP Power Supplies

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

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

Step 3: Choose Additional Factory Integratable Options

HP Unique Options

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

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

HP Drives

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

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

HP Flexible LOM

Select a FlexibleLOM from Core options-Networking section below,

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

HP Networking

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



Configuration Information - Factory Integrated Models

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

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

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

HP Graphics Options

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

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

HP I/O Expansion Options

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

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

HP Cooling Options

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

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

HP Rail Kits

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

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

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



Core Options

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 Unique Options

HP DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit 764630-B21
HP DL360 Gen9 High Performance Temperature Fan Kit 766201-B21

High Performance Fan Kit is available to meet some extended ambient operating temperatures above 35 C on qualifying HW configurations as detailed in the table below. Additional details can be found at: https://www.hp.com/servers/ashrae.



		FlexLOM 2 SFF HOD Kit	FlexLOM 2 SFF HOD Kit	
HP DL360 Gen9 Locat	tion Discovery Serv	ices Ear Kit		764757-B21
HP 1U Security Bezel	Kit			664918-B21
HP Smart Array P440a Gen9	ar/2GB FBWC 12Gb	o 1-port Int SAS Co	entroller for DL360	726740-B21
The controller is specif	fic for the DL360 Ge	en9 with two GPUs	installed	
HP DL360 Gen9 Smar	rt Array P840 SAS	Card with Cable Kit	t	766205-B21
HP DL360 Gen9 Seria	l Cable			764646-B21
HP DL360 Gen9 Low I	Profile PCIe Slot CF	PU2 Kit		764642-B21
HP DL360 Gen9 Full H Include GPU power ca	•	PU2 Kit		764644-B21
HP DL360 Gen9 GPU Includes GPU power of				766199-B21
HP DL360 Gen9 SFF DVD RW, USB 2.0, ar		ıl Media Bay Kit		764632-B21
HP DL360 Gen9 SFF USB 2.0 and VGA	USB/VGA Universa	al Media Bay Kit		764634-B21
HP DL360 Gen9 SFF	Systems Insight Di	splay Kit		764636-B21
HP DL360 Gen9 SFF I	Embedded SATA C	able		766207-B21
HP DL360 Gen9 SFF	Smart Array P440a	r/H240ar SAS Cabl	e	766209-B21
HP DL360 Gen9 SFF Five cable included for P440 stand up cards		mart HBA H240 or	HP Smart Array	775927-B21
HP DL360 Gen9 LFF	USB/VGA Kit			764638-B21
HP DL360 Gen9 LFF	Systems Insight Dis	splay Kit		764640-B21
HP DL360 Gen9 LFF 0 Required for use with t SATA DVD-RW 72653	the following Option	s: SATA DVD-RON	/I 726536-B21 or	766203-B21
HP DL360 Gen9 LFF E	Embedded SATA C	able		766213-B21
HP DL360 Gen9 LFF S	Smart Array P440ar	/H240ar SAS Cabl	е	766211-B21
HP DL360 Gen9 LFF I Five cable included for P440 stand up cards		mart HBA H240 or	HP Smart Array	775929-B21
HP 1U Small Form Fa	ctor Easy Install Ra	ail Kit		734807-B21



HP 1U LFF Gen9 Easy Install Rail Kit	789388-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 Cable Management Arm for Ball Bearing Rail Kit	663203-B21
HP 1U Large Form Factor Ball Bearing Rail Kit	663202-B21
HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive 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.	726537-B21

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® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	755374-B21
	HP DL360 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit	755378-L21
	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) FIO Processor Kit	755382-L21
	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) FIO Processor Kit	755376-L21
	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) FIO Processor Kit	755384-L21
	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) FIO Processor Kit	755404-L21
	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) FIO Processor Kit	755386-L21
	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) FIO Processor Kit	764097-L21
	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) FIO Processor Kit	755406-L21



HP DL360 Gen9 Intel	® Xeon® E5-2643v3	(3.4GHz/6-core/20MB/135W)	755406-B21
HP DL360 Gen9 Intel Processor Kit	® Xeon® E5-2650v3	(2.3GHz/10-core/25MB/105V	V) FIO	755388-L21
	® Xeon® E5-2650v3	(2.3GHz/10-core/25MB/105V	V)	755388-B21
HP DL360 Gen9 Intel	® Xeon® E5-2660v3	(2.6GHz/10-core/25MB/105V	V) FIO	755390-L21
	® Xeon® E5-2660v3	(2.6GHz/10-core/25MB/105V	V)	755390-B21
	® Xeon® E5-2667v3	(3.2GHz/8-core/20MB/135W) FIO	755408-L21
	® Xeon® E5-2667v3	(3.2GHz/8-core/20MB/135W)	755408-B21
Processor Kit HP DL360 Gen9 Intel	® Xeon® E5-2670v3	(2.3GHz/12-core/30MB/120V	V) FIO	755392-L21
Processor Kit HP DL360 Gen9 Intel	® Xeon® E5-2670v3	(2.3GHz/12-core/30MB/120V	V)	755392-B21
Processor Kit HP DL360 Gen9 Intel	® Xeon® E5-2680v3	(2.5GHz/12-core/30MB/120V	V) FIO	755394-L21
Processor Kit HP DL360 Gen9 Intel	® Xeon® E5-2680v3	(2.5GHz/12-core/30MB/120V	V)	755394-B21
Processor Kit HP DL360 Gen9 Intek	® Xeon® E5-2683v3	(2GHz/14-core/35MB/120W)	FIO	755398-L21
Processor Kit		` (2GHz/14-core/35MB/120W)		755398-B21
Processor Kit	3 7.00110 20 200010	(20112/11/00/07/00/11/2011)		700000 B21
HP DL360 Gen9 Intel Processor Kit	® Xeon® E5-2690v3	(2.6GHz/12-core/30MB/135V	V) FIO	755396-L21
HP DL360 Gen9 Intel Processor Kit	® Xeon® E5-2690v3	(2.6GHz/12-core/30MB/135V	V)	755396-B21
HP DL360 Gen9 Intel®	® Xeon® E5-2695v3	(2.3GHz/14-core/35MB/120V	V) FIO	755400-L21
HP DL360 Gen9 Intel®	® Xeon® E5-2695v3	(2.3GHz/14-core/35MB/120V	V)	755400-B21
	® Xeon® E5-2697v3	(2.6GHz/14-core/35MB/145V	V) FIO	755402-L21
	® Xeon® E5-2697v3	(2.6GHz/14-core/35MB/145V	V)	755402-B21
	® Xeon® E5-2698v3	(2.3GHz/16-core/40MB/135V	V) FIO	764099-L21
	® Xeon® E5-2698v3	(2.3GHz/16-core/40MB/135V	V)	764099-B21
	® Xeon® E5-2699v3	(2.3GHz/18-core/45MB/145V	V) FIO	780003-L21
	® Xeon® E5-2699v3	(2.3GHz/18-core/45MB/145V	V)	780003-B21
HP DL360 Gen9 Intel	® Xeon® E5-2650Lv3	3 (1.8GHz/12-core/30MB/65V	V) FIO	764101-L21
Processor Kit HP DL360 Gen9 Intel Processor Kit	® Xeon® E5-2650Lv3	3 (1.8GHz/12-core/30MB/65V	V)	764101-B21



Core Options		
	HP DL360 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit	755410-L21
	HP DL360 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit	755410-B21
HP Memory	Registered DIMMs (RDIMMs)	
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-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 Optical Drives	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
	HP DL360 Gen9 SFF DVD/USB Universal Media Bay Kit	764632-B21
	HP DL360 Gen9 LFF Optical Cable	766203-B21
	HP Mobile USB Non Leaded System DVD RW Drive	701498-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	718162-B21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
	HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
	HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
	HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
	HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
	HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
	HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
	SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
	HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
	HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
	SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
	HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21



HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-B21
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-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 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	717973-B21
Solid State Drive	
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 (2.5-inch) Enterprise Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty	717965-B21
Solid State Drive	70.4000 D04
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 (3.5-inch) Enterprise Value Solid State Drives	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise 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 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 Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty	718171-B21
Solid State Drive	
HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734362-B21
Hard Drive Blank Kits	
HP Large Form Factor Hard Drive Blank Kit	666986-B21
HP Small Form Factor Hard Drive Blank Kit	666987-B21
Media Bay Kits	
HP DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit	764630-B21



Core Options			
	Disk Enclosure		
	HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A	
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	
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22	
	10 Gigabit Ethernet adapters		
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21	
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21	
	HP StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A	
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21	
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21	
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21	
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21	
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per eac NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers ar fiber-optic environments must be purchased separately. See cables/options below	nd cables for	
	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	
	NOTE: For the following FlexibleLOM Network Adapters, only 1 FlexibleLOM can server, which is selected in Step 2 of the "Configuration Information - Factory Inte section. These options are for upgrade or change from original configuration after shipped. NOTE: Please see the QuickSpecs for Technical Specifications and additional information www.hp.com/go/ProLiantNICs	grated Models" the server is	
HP InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-B21	
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.		
HP I/O Expansion	HP DL360 Gen9 Low Profile PCIe Slot CPU2 Kit	764642-B21	
Options	HP DL360 Gen9 Full Height PCIe Slot CPU2 Kit	764644-B21	



Core Options

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

HP Computation and Graphics Accelerators

HP NVIDIA Quadro K4200 Graphics Accelerator

J0G90A

Supports up to two 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).

HP NVIDIA Quadro K2200 Graphics Accelerator

J0G89A

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).

HP DL360 Gen9 SFF USB/VGA Universal Media Bay Kit 764634-B21
HP DL360 Gen9 LFF USB/VGA Kit 764638-B21
HP DL360 Gen9 GPU Cable for CPU1 Kit 766199-B21

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 Temperature Fan Kit

766201-B21



Additional Options

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

HP Insight softwar	~ UD	Incidht	Control
HP insight softwar	е не	insiant	Control

HP Insight Control including 1yr 24x7 Technical Support and Updates Single C6N27A

HP Insight Control including 1yr 24x7 Technical Support and Updates C6N28ABE

Electronic License

NOTE: The Electronic software license is available in EMEA only.

HP Insight Control Server Provisioning Media Kit BD883A

HP Insight Management Media Kit C6N31A

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

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.

NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.

NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631 div/12631 div.html

HP iLO Advanced including 3vr 24x7 Technical Support and Updates E-LTU

Embedded Management

HP iLO Advanced

o	
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 Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A
HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License	C6N36ABE
HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
HP iLO Advanced Electronic License with 3yr 24x7 Tech Support and Updates	BD506AAE
HP iLO Advanced including 1yr 24x7 Technical Support and Updates Electronic License	TA850AAE

HP Converged Infrastructure **Management Software**

HP OneView

HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34A
HP OneView Media Kit Phys No Lic	E5Y37A
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 for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic	E5Y43A
HD One View w/e il O Adv inel 2vr 24v7 Sunn Phys 1 Syr Lie	EEV201

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



E6U64ABE

Additional Options

HP High Performance Clusters

HP High Performance HP Cluster Management Utility

HP Insight Cluster Management Utility 1yr 24x7 Flexible License

QL803B

HP Insight Cluster Management Utility 3yr 24x7 Flexible License BD476A

NOTE: These part numbers can be used to purchase one certificate for multiple

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_div/12612_div.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: 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

···· •································	
HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit	766205-B21
HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller	726736-B21
HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
HP Smart Array P440ar/2GB FBWC 12Gb 1-port Int SAS Controller for DL360 Gen9	726740-B21
HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	749974-B21
HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21
HP Smart Host Bus Adapters	
HP H240ar 12Gb 1-port Int Smart Host Bus Adapter	726757-B21
HP H240ar 12Gb 1-port Int FIO Smart Host Bus Adapter	749976-B21
HP Cable Options	
HP DL360 Gen9 SFF Embedded SATA Cable	766207-B21
HP DL360 Gen9 LFF Embedded SATA Cable	766213-B21
HP DL360 Gen9 SFF Internal SAS Cable	775927-B21
HP DL360 Gen9 LFF Internal SAS Cable	775929-B21
HP DL360 Gen9 SFF Smart Array P440ar/H240ar SAS Cable	766209-B21
HP DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable	766211-B21
Optional Upgrades	
HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers	727258-B21



Additional Options

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 www.hp.com/go/ebs.	

Tape Drives

HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader	C0H19A
HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	C0L99A
HP StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	EH946C
HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	EJ014B
HP StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
HP StoreEver LTO-5 Ultrium 3280 SAS Tape Drive in 3U Rack-mount	EJ013B
HP StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HP StoreEver 1U SAS Rack-mount Kit	AE459B
HP StoreEver LTO-4 Ultrium 1760 SCSI External Tape Drive	EH922B

HP Tape Storage Systems

HP StoreEver MSL6480

HP StoreEver MSL6480 Scaleable Expansion Module QU626A NOTE: Please see the QuickSpecs for Technical Specifications and additional

information:

http://h18000.www1.hp.com/products/quickspecs/14604_div/14604_div.html (Worldwide).

HP StoreEver MSL6480 Scalable Base Module

HP MSL2024 0-Drive Tape Library

HP MSL4048 0-Drive Tape Library

AK379A

HP MSL Library Extender Kit

AQ746A

HP Disk Backup

HP RDX Removable Disk Backup System

HP RDX1000 USB3.0 External Disk Backup System

HP RDX 2TB USB3.0 External Disk Backup System

E7X53A

NOTE: For the complete range of RDX drives and media see:

http://www.hp.com/go/rdx. For hardware and software compatibility of HP disk

backup products see: http://www.hp.com/storage/SPOCK.

NOTE: Please see the QuickSpecs for additional part numbers, Technical

Specifications, and additional information:

http://h18000.www1.hp.com/products/quickspecs/13036_div/13036_div.html

(Worldwide).



Additional Options			
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 PCle 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 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 Data Center Racks	HP 11000 G2 Series Racks		
	HP 11648 1075mm Pallet Universal Rack	H6J87A	
	HP 11648 1075mm Shock Universal Rack	H6J88A	
	HP 11642 1075mm Pallet Universal Rack	H6J65A	
	HP 11642 1075mm Shock Universal Rack	H6J66A	
	HP 11642 1200mm Pallet Universal Rack	H6J67A	
	HP 11642 1200mm Shock Universal Rack	H6J68A	
	HP 11636 1075mm Pallet Universal Rack	H6J77A	
	HP 11636 1075mm Shock Universal Rack	H6J78A	
	HP 11622 G2 1075mm Pallet Universal Rack	H6J83A	
	HP 11622 G2 1075mm Shock Universal Rack	H6J84A	
	HP 11614 1075mm Shock Universal Rack	H6J82A	
	NOTE: Please see the HP 11000 G2 Series Racks QuickSpec for information on additional racks options and rack specifications		
	HP Intelligent Series Racks		
	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	
	HD 642 1075mm Pallot Intelligent Series Pack	D/V/OU3 V	



HP 642 1075mm Pallet Intelligent Series Rack

BW903A

Additional Options

HP 642 1075mm Shock Intelligent Series Rack	BW904A
HP 642 1200mm Pallet Intelligent Series Rack	BW907A
HP 642 1200mm Shock Intelligent Series Rack	BW908A
HP 636 1075mm Pallet Intelligent Series Rack	BW895A
HP 636 1075mm Shock Intelligent Series Rack	BW896A
HP 842 1075mm Pallet Intelligent Series Rack	BW917A
HP 842 1075mm Shock Intelligent Series Rack	BW918A
NOTE: Please see the HP Intelligent Series Racks QuickSpec for information on additional racks options and rack specifications.	
UD Value Carine Deals	

HP Value Series Rack

HP V142 1075mm deep Pallet 100 series Rack

AF046A

NOTE: Please see the HP Value Series Rack QuickSpec for information on additional racks options and rack specifications.

Units (PDUs)

HP Power Distribution HP Basic Power Distribution Unit (bPDU)

HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D74
HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D75
HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit	252663-B33
HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit	AF511A
HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit	AF518A
HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56A
HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU	H5M58A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13) INTL Basic PDU	H5M68A
HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70A
NOTE: To be an enough of the Device Device Distribution Unite (hDDII), places	

NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at www.hp.com/go/pdu.

HP Monitored Power Distribution Units (mPDU)

HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43A
HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45A
HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU	D9N47A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU	D9N48A
HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU	D9N50A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU	D9N55A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored	D9N57A

HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP **D9N59A** Monitored PDU

HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored **D9N56A**

HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU

NOTE: Please see the HP Monitored Power Distribution Units QuickSpec for information on additional options and product specifications

HP Intelligent Power Distribution Units (iPDU

HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution AF520A Unit



D9N60A

Additional Options

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 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF535A
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 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525A
HP 7.3kVA 32A Single Phase INTL Intelligent Modular Power Distribution Kit	AF534A
NOTE: Please see the HP Intelligent Power Distribution Units QuickSpec for information on additional options and product specifications. NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page.	

HP Rack Mount Consoles, KVM Switches, and Keyboards

HP Rack Mount Consoles

HD 4 45 010 MHD 0	4 = 000 4
HP KVM Switches	
additional options and product specifications.	
NOTE: Please see the HP Rack Console QuickSpec for information on	
HP TFT7600 G2 KVM Console Rackmount Keyboard Intl Monitor	AZ884A
HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor	AZ870A

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 Server Console 0x2x8 Port Analog Switch	AF616A
HP Server Console 0x2x16 Port Analog Switch	AF617A
HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
HP 1x4 USB/PS2 KVM Console Switch	AF611A
NOTE: To loarn more places visit the UD KVM Switches web page	

NOTE: To learn more, please visit the HP KVM Switches web page.

on additional options and product specifications.

HP 10 Rackmount Keyboard with USB	
HP 1U US Rackmount Keyboard with USB	AG072A
HP 1U INT Rackmount Keyboard with USB	AG086A

NOTE: Please see the HP 1U Rackmount Keyboard QuickSpec for information on additional options and product specifications.

HP USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
NOTE: Please see the HP USB Keyboard and Mouse QuickSpec for information	

Rail Kits

789388-B21
734807-B21
734811-B21
663201-B21
663202-B21
663203-B21



Additional Options

HP Uninterruptible	HP Rack-mountable UPS	
Power Systems (UPS)	HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A
	HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System	AF468A
	HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
	HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
	HP Parallel UPS	
	HP RP12000/3 6U International (INTL) Uninterruptible Power System Module NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page.	AF437A

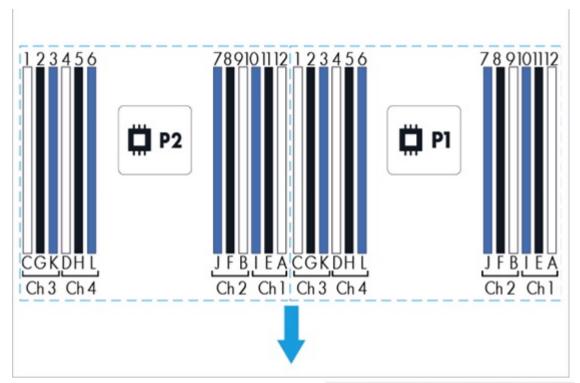


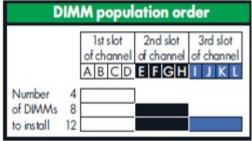
Memory

Memory Subsystem Architecture

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

Memory Population guidelines





General Memory Population Rules and Guidelines:

- White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- A minimum of one DIMM is required per server.
- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors and to load the channels similarly whenever possible.
- When two processors are installed, balance the DIMMs across the two processors.
- Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel. Heaviest load
 - (DIMM with most ranks) within a channel goes furthest from the processor.
- DDR4 RDIMMs Operate at 1.2v
- Do not mix RDIMMs or LRDIMMs.
- LRDIMMs are supported up to 3 DIMMs per channel.
- DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- The maximum memory speed is a function of the memory type, memory configuration, and



Memory

- 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. Certain HP SmartMemory features such as memory authentication and enhanced performance may not be supported.
- To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html (Worldwide).
- For memory population rules and additional memory guidelines, please see the 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 channels1 and 3 consists of the three (3) DIMMs that are furthest from the processor.
- Memory channel 2 and 4 consists of the three (3) DIMMs that are closest to the processor.

Intel Gen9 Supported Memory Bandwidth for HP ProLiant Gen8 Intel® Xeon®E5-2600v3 Series Processor Family

Memory Bandwidth and Capacity			
[DIMM Type]	Registered DIMMS (RDIMMs)		Load Reduced (LRDIMMs)
DIMM Rank	Single Rank	Dual Rank	Quad Rank
DIMM Capacity	8GB	16GB	32GB
DIMM Native Speed (MT/s)			
Voltage		Std Vol	tage 1.2V
SLOTS THAT	CAN BE POPULA	ΓED	
24 slot servers	24		
MAXIMUM CA	PACITY (GB)*		
	192	384	768
1 DIMM Per Channel	2133		
2 DIMM Per Channel	2133		
3 DIMM Per Channel	1600	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

CPU #1 IS PROCESSOR ON RIGHT - LOOKING FROM FRONT OF SERVER

CPU1		CPU2		
Slot#	population order	ISIOT #	population order	
1		1		



Memory

Memory Speed by Processor Model

Processor Models	Supported Memory Speeds
E5-2609v3, E5-2603v3,	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

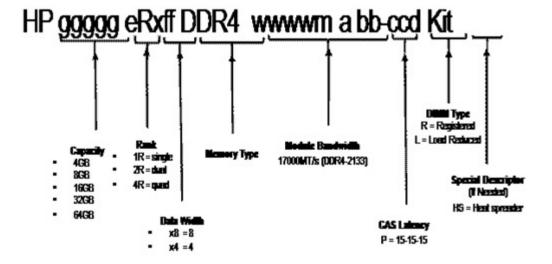
Standard and Maximum Memory Capacity (Preconfigured Models)

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)
E5-2603v3,	16GB (1x16GB)	384GB (23x16GB, 1x16GB)	768GB (24x32GB)
E5-2603v3,	32GB (2x16GB)	384GB (22x16GB, 2x16GB)	768GB (24x32GB)

DDR4 memory options part number decoder

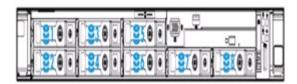
NOTE: Capacity references are rounded to the common Gigabyte values.

- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB

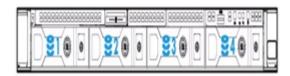




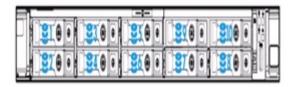
Storage



1-8 8 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays



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



1-10 10 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays



Technical Specifications

System Unit Dimensions (H x W x D) 8 SFF and 10 SFF 1.7 x 17.1 x 27.5 inches (4.32 x 43.47 x 69.85 cm)

4 LFF - 1.7 x 17.1 x 29.5 inches (4.32 x 43.46 x 75.0 cm)

Weight Maximum: (approximate) (all hard drives, power

supply, and processor

installed)

8 SFF Chassis 33.3 lb. (15.31 kg) NOTE: Includes 2 SFF Option for a total of 10 SFF

HDD

Minimum: 4 LFF Chassis 37 lb. (16.78kg) (one hard drive, power 8SFF Chassis 27 lb. (12.25 kg) supply, and processor 4 LFF Chassis 30.36 lb. (13.77 kg)

installed)

Input Requirements Range Line Voltage 100 to 120 VAC

200 to 240 VAC

BTU Rating Maximum For 800W Power Supply: 3207 BTU/hr (at 100

> VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only

For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only

Power Supply Output Rated Steady-State For 1400W Power Supply: 1400W (at 100 Power

VAC), 1400W (at 240 VAC), 1400W (at 240

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 Standard Operating **Temperature** 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:www.hp.com/go/proliant/Ashrae For approved hardware configurations, the supported system inlet range is extended to



Technical Specifications

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: www.hp.com/go/proliant/Ashrae

Extended Ambient Operating Support

Non-operating -30° to 60°C (-22° to 140°F). Maximum rate of

change is 20°C/hr (36°F/hr).

Relative Humidity (non-condensing)

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-operating 5 to 95% relative humidity (Rh), 38.7°C

(101.7°F) maximum wet bulb temperature,

non-condensing.

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

Altitude

Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

Idle

LWAd (1P non-redundant) 4.6 A Average Bystander

(2P redundant) 5.5 A Average Bystander

LpAm (1P non-redundant) 29 dBA

(2P redundant) 37 dBA

Operating

LWAd (1P non-redundant) 4.6 A Average Bystander

(2P redundant) 6.2 C Average Bystander

LpAm (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



Technical Specifications

FCC Rating **Emissions** Class A

Classification (EMC) 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 Array B140i Controller **Number of PCI links**

Four 4 Gb/s

PCI link rate Storage protocol

SATA

suppor

SAS/SATA peak data

6 Gb/s

transfer rate

Number of SAS/SATA 10 links

links

SAS/SATA connectivity 2x4 connectors; 2x1 connectors

Expander support

Drives supported (max) Up to 10 Internal Drives

RAID support 0, 1, 10, 5 SATA Software management HP SSA, SMH, SIM Warranty Server warranty

HP Secure Encryption Not Supported

license

HP SmartCache

License

Not Supported

HP Smart Storage

Supported

Administrator

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

HP Ethernet 1Gb 4-port Network Interface Compatibility

IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX

Ports

Data Transfer Method

PCI Express, two lanes (x2)

Controller

BCM5719

10Base-T (Half-Duplex) 10 Mb/s per port, 40 Mb/s combined 10Base-T (Full-Duplex) 20 Mb/s per port, 80 Mb/s combined

Network Transfer Rate 100Base-TX (Half-

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

Duplex)

100Base-TX (Full-

200 Mb/s per port, 800 Mb/s combined

Duplex)

1000Base-TX (Half and

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

Full-Duplex)

1000Base-TX (Full-

2000Mb/s per port, 8000 Mb/s combined

Connector

Duplex) Four RJ-45



331i Adapter

Technical Specifications

Cable Support

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

m)

Environment-friendly Products and Approach End-of-life Management and Recycling Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: 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.



© Copyright 2014 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel® and Xeon® are registered trademarks of Intel Corporation in the U.S. and other countries.

Microsoft®, Windows®, and Windows Server® are U.S. registered trademarks of the Microsoft group of companies.

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