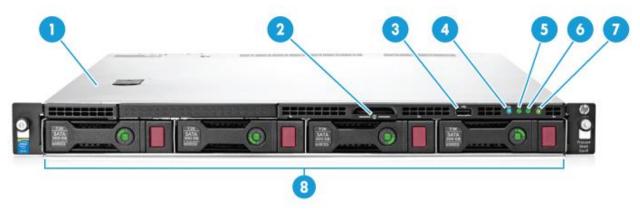
Overview

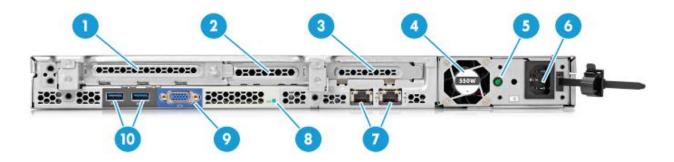
HP ProLiant DL60 Generation9 (Gen9)

The HP ProLiant DL60 Gen9 Server provides the right density, performance and manageability for file and print, messaging, collaboration workloads and cloud environments. All in a compact 1U chassis at an affordable price to meet the needs of cost conscious service providers and SMBs.



Front View

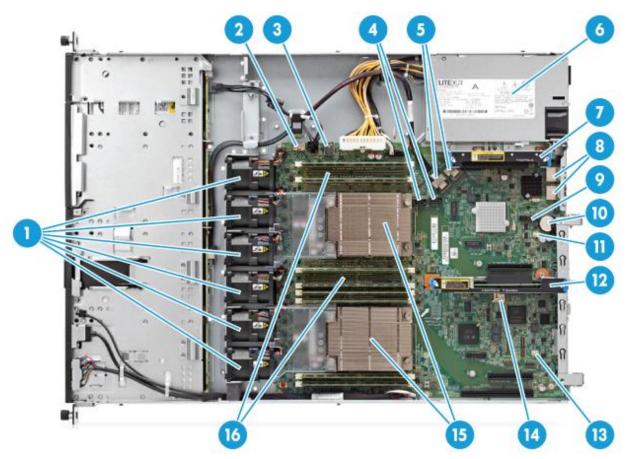
- 1. Access Panel
- 2. Serial label pull tab
- 3. USB 2.0 connector
- 4. UID button/LED
- 5. Health LED
- 6. NIC status LED
- 7. Power On/Standby button and system power LED
- 8. 4LFF drive cage



Rear view

- 1. Slot 3 PCIe3 x8 (8, 4, 1)
- 2. Slot 2 PCle3 x8 (8, 4, 1)
- 3. Slot 1 PCle3 x16 (16, 8, 4, 1)
- 4. Power supply bay (550w shown)
- 5. Power supply power LED
- 6. Power supply power connection
- 7. Embedded 2x1GbE network adapter
- 8. UID LED
- 9. Video connector
- 10. USB3.0 connectors

Overview



Internal View

- 1. Hot swappable fans (up to 6)
- 2. HP Smart Storage Battery (optional)
- 3. Internal USB 3.0
- 4. SATA connector
- 5. Mini-SAS connectors
- 6. Power supply bay
- 7. Primary PCIe riser board connector
- 8. Embedded 2x1GbE network adapter
- 9. TPM connector
- 10. System Battery
- 11. Storage backup power connector for PCIe slots 1-2
- 12. Secondary PCIe riser slot
- 13. Storage backup power connector for PCIe slot 3
- 14. MicroSD slot
- Processor heat sinks (processors with HP Smart Socket placed below heat sink)
- 16. DDR4 DIMM slots (up to 8)



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. 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
E5-2660v3	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
E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
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

One of the following depending on model 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) 2GB NAND

Management Chipset NOTE: For more information, visit: http://www.hp.com/go/ilo.

One of the following depending on model

Memory

Type:

One of the following depending on model **HP SmartMemory**

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

DIMM Slots Available 8 (4 DIMM slots per processor, 4 channels per processor, 1 DIMMs per

channel)

Maximum Capacity (LRDIMM) (8 x 32GB LRDIMM @2133MHz) 256GB Maximum Capacity (RDIMM) 128GB (8 x 16GB RDIMM @2133MHz)

Memory Protection One of the following

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.

depending on model Online spare

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

to the spare rank.

Expansio	n Slots
----------	---------

CPU1 PCIe riser slots	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form	ı Factor	Notes
	1	PCIe 3.0	x16	x16		Low	profile	CPU 1
CPU1 FlexibleLOM riser slots	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes

(Option 1)

Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
2	PCIe 3.0	x8	x8			Low profile	CPU1
3	Flexible LOM	x8	х8			Flexible LOM	CPU 1 (Can only be used for

flexibleLOMs)

NOTE: This riser is mandatory for installing FlexibleLOMs.

Standard Features

CPU1 riser PCIe slots (Option 2)	Expansion Slots#	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes	
	2	PCIe 3.0	x8	x8			Low profile slot	CPU1	
	3	PCIe 3.0	х8	x8			Full-height, half- length slot	CPU1	
					ted in any giver onfigurations.	n configurati	on.		
Storage Controller One of the following	Entry Mode	ls		HP Dynamic !	Smart Array B14	40i Controlle	er		
depending on model	Base Models HP Dynamic Smart Array B140i Controller								
	NOTE: B140 RAID 0, 1 &		oport for up t	o 10 SATA dr	ives, data trans	mission spe	eds up to 6Gb/s and sup	oports	
Internal Storage	Optical Driv	es (Optional: DVD	-ROM, DVD-I	RW				
Devices One of the following	Hard Drives	. 1	None ship sta	ndard					
depending on model	Hard Drive	Bays 4	LFF drive ba	ys total with	Optical bay				
Maximum Internal					CAPACITY		CONFIGURATI	ON	
Storage	Hot Plug LF	F SAS			24.0TB		4 x 6TB		
One of the following	Hot Plug LF	F SATA			24.0TB		4 x 6TB		
depending on model	Non-Hot Pl	ug LFF SATA			2.4TB		4 x 600GB		
	Hot Plug LF	F SATA SSD			6.4TB		4 x 1.6TB		

Power Supply

One of the following depending on model

HP 550W FIO Power Supply

HP 800W/900W Gold AC Power Input Module

HP Entry-Level Power Supplies provide lower-cost options for customers trying to balance their need for enterprise class efficiency and reliability while maintaining lowest possible hardware costs. All Entry-Level power supply options have been designed specifically for HP ProLiant Gen9 Essential Series servers.

The HP 550W FIO Power Supply is the standard, non-redundant AC power supply option for most HP ProLiant Gen9 Essential servers. It features Silver-level (89%) certified power efficiency with a set of features optimized for the Gen9 Essential-series rack and tower servers.

The HP 800W Gold (Redundant)/900W (Non-Redundant) AC Power Input Module with Power Backplane can be configured to support power redundancy in ProLiant servers that offer only a single power supply bay, providing additional protection against power loss. With an 80 Plus Gold power efficiency rating (up to 92%), this power option helps to reduce operating expenses while protecting against trapped power capacity in the data center. Each power backplane option can support up to two (2) hot-plug AC power input modules.

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-reaunaant	Keaunaant
1P model	3 fans	5 fans
	Non-redundant	Redundant
2D model	4 fanc	6 fanc

NOTE: Redundant fan option kit (PN: 765513-B21) can be bought separately if redundancy is required with 1P or 2P configurations.

NOTE: Additional fans required with 2P configurations are included in "-B21" processor option kits.

Standard Features

Interfaces

Video 1 (Vaux Support)
LOM Network Ports 2 x 1GbE ports
Micro SD Slot 1 Micro SD

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 4 USB ports (standard);

Front: 1xUSB 2.0 std; Rear: 2xUSB 3.0 Internal: 1x USB 3.0

Operating Systems and Virtualization Software Support for ProLiant Servers

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

VMware

NOTE: For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page http://www.hp.com/support/DL60Gen9.

Upgradeability

Upgradeable to two processors (24 cores)

One of the following depending on model

up to 8 DIMM slots

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

Redundant Power Supply

Redundant Fan

Industry Standard Compliance ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support

Microsoft® Logo certifications

USB 3.0 Support ASHRAE A3

NOTE: Supports A3 extended ambient temperature.

NOTE: Refer to technical specifications section for more details.

Graphics

Integrated Matrox G200eH2 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.



Standard Features

- 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 4LFF version:

1.69" (4.29cm) Height x 17.11" (43.46cm) Width x 23.9" (60.70cm) Length

Embedded Management

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

management with HP 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.

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, when 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.

NOTE: For more information, visit: http://www.hp.com/go/ilo or HP iLO Management Engine technologies whitepaper.

Server utilities

HP Smart Update

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

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

HP Systems Insight Manager (HP SIM)

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

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

HP SIM also integrates with HP SUM to provide quick and seemless 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.

Tool

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

HP iLO Mobile Application

Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit:

http://www.hp.com/go/ilo/mobileapp.

HP Insight Online HP Insight Online, available at no additional cost as part of your HP warranty, Care Pack or

contractual support agreement with HP, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at

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

Standard Features

Security

Power-on password Serial interface control Administrator's password 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 1-Year Parts, 1-Year Labor, 1-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 Essentials

HP iLO Essentials is the preferred license for small and medium business that offers full remote server management capabilities for small and medium business via the Integrated Remote Console (IRC), virtual media, and e-mail based alerts. Learn more about HP iLO Essentials at http://www.hp.com/go/iLO/essentials.

iLO Scale-Out

HP iLO Scale-Out is the preferred license built for web hosting, cloud service providers, and high performance computing data centers, managing massive scale out environments. This license offers sophisticated scripting tools that provides remote access through Text Console via SSH, Dynamic power capping, Email-based Alerting and proactive notifications. For more information, visit http://www.hp.com/go/iLO/scale-out.

iLO Advanced

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

Server Management HP Insight Control HP Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hp.com/go/insightcontrol.

HP OneView Advanced

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

Rack and Power Infrastructure

HP Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HP Rack and Power infrastructure solutions – rack infrastructure, power protection and management, performance optimized data centers (PODs) – are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, HP is uniquely positioned to address the key concerns of power, cooling, cable management and system access.

Learn more at HP Rack and Power Infrastructure.

High Performance Clusters

HP Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters.

HPC Interconnects

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

Storage Software

Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than HP storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities.

Storage software that gets the job done:

Data Protection and Recovery Software

Whether you're a large enterprise or a smaller business, HP data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.

Data Archive and Migration Software

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

Optional Features

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

Storage Resource Management Software (SRM)

HP's storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments.

• Data Replication Software

HP offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting.

• Storage Device Management Software

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

HP StoreVirtual VSA

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

Service and Support

HP Technology Services for Industry Standard Servers

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

Protect your business beyond warranty with HP Care Pack Services

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

Optimized Care

Supports maintaining servers at optimum performance availability

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

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

Standard Care Package

Supports maintaining high level of server availability

Foundation Care 24x7, three-year Care Pack Service

HP Foundation Care 24x7 connects you to HP 24 hours a day, seven days a week for assistance on resolving issues. Hardware onsite response within four hours if needed; collaborative software included in this Care Pack service provides troubleshooting assistance on industry leading software running on your HP server. Simplify your support experience and make HP your first call for hardware or software questions.

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en

Basic Care

Foundation Care NBD, three-year Care Pack Service

HP Foundation Care Next Business Day connects you to HP during business hours for assistance on resolving issues features next business day hardware onsite response if needed and software call back within two hours. Collaborative software support is included and provides troubleshooting assistance on industry leading software running on your server. Simplify your support experience and make HP your first call for hardware or software questions. http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en

Related Services

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

Factory Express for Servers and storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed. For more information on Factory Express services for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.

Data Privacy Services

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

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

experience

Get connected to HP to Prevent problems with innovative, automated monitoring tools and proactive services. Combining Proactive Care improve your support Services with our remote support technology such as Insight Online provides you with expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems quickly. For more information, visit: http://www.hp.com/go/proactiveinsightexperience

Service and Support

HP Support Center

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

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

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

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

Parts and Materials

HP will provide HP-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements. Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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



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 P/N 666986-B21: HP LFF Hard Drive Blank Kit.

NOTE: All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (AOKO2A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the ProLiant Power Cables web page.

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

	Entry Models	Base Models
[SKU Number]	777394-B21	785836-B21
Model Name	HP ProLiant DL60 Gen9 E5-2603v3 4GB-R B140i 4LFF NHP SATA 550W PS Entry Server	HP ProLiant DL60 Gen9 E5-2609v3 8GB-R B140i 4LFF SATA 550W PS Base Server
Processor	Intel® Xeon® E5-2603v3	Intel® Xeon® E5-2609v3
Number of Processors	Oi	ne
Memory	4GB (1x4GB Registered DIMMs, 2133 MHz)	8GB (1x8GB Registered DIMMs, 2133 MHz)
Network Controller	HP Embedded Dual Port 361	i Adapter Network Interface
Storage Controller	HP Dynamic Sm	art Array B140i
Hard Drive	None ship	standard
Internal Storage	4 LFF HDD Bays (Non Hot Plug)	4 LFF HDD Bays
Optical Drive Bay	1; (Optional: DVE	D-ROM, DVD-RW)
PCI-Express Slots	3 PCIe 3	3.0 slots
Power Supply	(1) HP 550W FIG	O Power Supply
Fans	3 hot swap fans	, non redundant
Management	iLO Management (standard), Intelligent Prov	isioning (standard), iLO Essentials (optional)
Form Factor	Rack (1U), HP E	asy Install Rails
Warranty	Server Warranty includes 1-Year Parts, 1-Year Labor, 1	-Year Onsite support with next business day response.

Country Code Key

xx1 = B21 Worldwide

xx1 = 291

Japan

xx1 = AA1

PRC



Configuration Information - Factory Integrated Models

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

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

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

[Chassis]	HP ProLiant DL60 Gen9 4LFF Non-hot Plug Configure-to-order Server	HP ProLiant DL60 Gen9 4LFF Configure-to-order Server				
SKU Number	777404-B21	777403-B21				
Processor	2 (optional) x HP S	Smart Socket Guides				
DIMMSlots	8 DIMM slots for RDIMI	M, LRDIMM DDR4 Memory				
Storage Controller	HP Dynamic S	mart Array B140i				
PCIe	3 PCle	3.0 slots				
Drive Cage	4LFF Non Hot Plug	4LFF Hot Plug				
Network Controller	HP Embedded Dual Port 36	51i Adapter Network Interface				
Fans	3 hot swap fan	s, non redundant				
Management	iLO Management (standard), Intelligent Pro	visioning (standard), iLO Essentials (optional)				
USB	1 front, 1 ir	1 front, 1 internal, 2 rear				
Ears	HP Thum	bscrew Ears				

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

HP Processors

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

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

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

HP Memory

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

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

HP Power Supplies

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



Configuration Information - Factory Integrated Models

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

Step 3: Choose Additional Factory Integratable Options

HP Unique Options

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

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

HP Drives

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

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

HP Flexible LOM

Select a FlexibleLOM from Core options-Networking section below,

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

HP Networking

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

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

HP 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.



Configuration Information - Factory Integrated Models

- 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 DL60/120 Gen9 CPU1 Riser Kit	765508-B21
	HP DL60/120 Gen9 FlexibleLOM Riser Kit	765509-B21
	HP DL60/120 Gen9 Full Height Half Length PCIe Riser Kit	765510-B21
	HP AHCI-Enable FIO Setting	801845-B21
	NOTE: This needs to be selected when Advanced Host Controller Interface mode is required on B140i controller.	
IP Processors	Entry Processors - E5-2600v3 series Processors	
	HP DL60 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	765536-B21
	HP DL60 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit	765536-L21
	HP DL60 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	765538-B21
	HP DL60 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit	765538-L21
	Base Processors - E5-2600v3 series Processors	
	HP DL60 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	765540-B21
	HP DL60 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit	765540-L21
	HP DL60 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	765541-B21
	HP DL60 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit	765541-L21
	HP DL60 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	765542-B21
	HP DL60 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	765542-L21
	HP DL60 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	779928-B21
	HP DL60 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit	779928-L21
	HP DL60 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	765545-B21
	HP DL60 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit Performance Processors - E5-2600v3 series Processors	765545-L21
	HP DL60 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	765543-B21
	HP DL60 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit	765543-L21
	HP DL60 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/20MB/90W) Processor Kit	765544-B21
	HP DL60 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/20MB/90W) FIO Processor Kit	765544-L21
	HP DL60 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	765551-B21
	HP DL60 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	765551-L21
HP Memory	Registered DIMMs (RDIMMs) for E5-2600v3 Series	
	HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
	HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21
	HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21
HP 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 Drives	SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
	HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
	HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
	HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
	SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	



Core Options

HP 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 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
SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	628065-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659339-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659337-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659341-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 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
CC CATA Has Blood FF (2 F in al.) Fotomories Liela Cd Callid Casa Buines	

6G SATA Hot Plug LFF (3.5-inch) Enterprise Light G1 Solid State Drives



Core Options

	HP 960GB 6G SATA Light Endurance LFF 3.5-in SC Converter ENT Light 3yr Wty G1 Solid	756604-B21		
	State Drive			
	6G SATA Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives			
	HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	718171-B21		
	HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734362-B21		
	Hard Drive Blank Kits			
	HP Large Form Factor Hard Drive Blank Kit	666986-B21		
	Disk Enclosures			
	HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A		
IP 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		
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber environments must be purchased separately. See cables/options below.	er-optic		
	FlexibleLOM Adapters			
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21		
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21		
	HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21		
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21		
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21		
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22		
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs.			
IP InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-B21		
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21		
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.			
IP I/O Expansion	HP DL60/120 Gen9 Full Height Half Length PCIe Riser Kit	765510-B21		
ptions	HP DL60/120 Gen9 FlexibleLOM Riser Kit	765509-B21		
	HP DL60/120 Gen9 CPU1 Riser Kit	765508-B21		
IP Power Supplies	HP Entry-Level Power Supplies			
	HP 550W FIO Power Supply Kit	730941-B21		
	HP 800W Gold (Redundant)/900W (Non-Redundant) AC Power Input Module	744689-B21		
	HP Server Redundant Power Supply Backplane Kit NOTE: Required to be bought when 900W/800W power supply (P/N: 744689-B21) is selected.	745813-B21		
HP Cooling Options	HP DL60/120 Gen9 Redundant Fan Kit NOTE: Includes two fans and is required to move from non redundant to redundant configurations.	765513-B21		



Controllers

HP Smart Array Controllers

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

HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller

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.

Embedded Management	HP iLO Advanced	E1240E P24		
. ianagement	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21		
	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A		
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE E6U64ABE		
	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU			
	HP iLO Essentials	ECUCA ADE		
	HP Integrated Lights-Out Essentials including 3yr 24x7 Technical Support and Updates E- LTU	E6U61ABE		
	HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates Single Svr License	BD774A		
	HP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and Updates Single Svr License	BD775A		
	HP Integrated Lights-Out Essentials including 1yr 24x7 Technical Support and Updates E- LTU			
	HP iLO Scale-out			
	HP Integrated Lights-Out Scale-Out 3yr 24x7 Tech Support and Updates Flex Quantity License	BD776A		
	HP Integrated Lights-Out Scale-Out including 3yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD776AAE		
	HP Integrated Lights-Out Scale-Out including 3yr 24x7 Tech Support and Updates Tracking License	BD777 <i>F</i>		
	HP Integrated Lights-Out Scale-Out 1yr 24x7 Tech Support and Updates Flex Quantity License	BD778#		
	HP Integrated Lights-Out Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD778AAE		
	HP Integrated Lights-Out Scale-Out including 1yr 24x7 Tech Support and Updates Tracking License	BD779A		
HP Converged	HP OneView Advanced (with HP iLO Advanced)			
nfrastructure	HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34 <i>F</i>		
Management Software	HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y35AAE		
	HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic	E5Y43 <i>E</i>		
	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	E5Y37 <i>E</i>		
	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.			
HP Storage	SAS Controllers			
nr storaye Controllere	and controllers			

726821-B21

726825-B21



HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21
HP Smart Host Bus Adapters	
HP H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter	761873-B21
HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
HP Cable Options	
HP DL60/120 Gen9 4LFF Smart Array H240 SAS Cable Kit	777385-B21
HP DL60/120 Gen9 4LFF Smart Array P440 SAS Cable Kit	777382-B21
HP DL60/80/120 Gen9 4LFF Cable FIO Kit	777331-B21
NOTE: One of the above cables is required to be selected depending on the combination	of chassis and storage

NOTE: One of the above cables is required to be selected depending on the combination of chassis and storage controller. Cable option kit descriptions include the right chassis and storage controllers names.

NOTE: FIO indicates that this option is only available as a factory installable option. Please select FIO option if you want the option to be factory installed.

NOTE: NHP server chassis (Mod-x) includes SATA cables required to connect drives to embedded B140i SATA controller.

Optional Upgrades

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

727258-B21

NOTE: This option is mandatorily required with HP Smart Array controllers. One server can accommodate only 1 Smart Storage Battery that would suffice the requirement of all HP Smart Array controllers.

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.

NOTE: For Internal drives to be connected to DL servers please make sure that you order rack mount kit as well. **Tape Drives**

SAS Rack-Mount Tape Solutions

HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A
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 LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	EH946C
HP StoreEver 1U SAS Rack-mount Kit	AE459B
HP MSL Library Extender Kit	AQ746A
HP DAT Autoloader	
HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader	COH19A
HP MSL2024 Tape Library	
HP MSL2024 0-Drive Tape Library	AK379A
HP MSL4048 Tape Library	
HP MSL4048 0-Drive Tape Library	AK381A
HP StoreEver MSL6480	
HP StoreEver MSL6480 Scaleable Expansion Module	QU626A
HP StoreEver MSL6480 Scalable Base Module	QU625A

HP Disk Storage Systems

Disk Enclosures

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 Rack	S HP 11000 G2 Series Racks	
	HP 11648 1075mm Pallet Universal Rack	H6J87A
	HP 11648 1075mm Shock Universal Rack	H6J88A
	HP 11642 1075mm Pallet Universal Rack	H6J65A
	HP 11642 1075mm Shock Universal Rack	H6J66A
	HP 11642 1200mm Pallet Universal Rack	H6J67A
	HP 11642 1200mm Shock Universal Rack	H6J68A
	HP 11636 1075mm Pallet Universal Rack	H6J77A
	HP 11636 1075mm Shock Universal Rack	H6J78A
	HP 11622 G2 1075mm Shock Universal Rack	H6J83A
	HP 11622 G2 1075mm Shock Universal Rack	H6J84A
	HP 11614 1075mm Shock Universal Rack	H6J82A
	NOTE: Please see the HP 11000 G2 Series Racks QuickSpecs for information on additional racks options and rack specifications.	110302.1
	HP Intelligent Series Rack	
	HP 647 1075mm Pallet Intelligent Series Rack	BW911A
	HP 647 1075mm Shock Intelligent Series Rack	BW912A
	HP 647 1200mm Pallet Intelligent Series Rack	BW913A
	HP 647 1200mm Shock Intelligent Series Rack	BW914A
	HP 642 1075mm Pallet Intelligent Series Rack	BW903A
	HP 642 1075mm Shock Intelligent Series Rack	BW904A
	HP 642 1200mm Pallet Intelligent Series Rack	BW907A
	HP 642 1200mm Shock Intelligent Series Rack	BW908A
	HP 636 1075mm Pallet Intelligent Series Rack	BW895A
	HP 636 1075mm Shock Intelligent Series Rack	BW896A
	HP 842 1075mm Pallet Intelligent Series Rack	BW917A
	HP 842 1075mm Shock Intelligent Series Rack NOTE: Please see the HP Intelligent Series Racks QuickSpecs for information on additional racks options and rack specifications.	BW918A
	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
IP Power	HP Basic Power Distribution Unit (bPDU)	
istribution Units PDUs)	HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5M54 <i>A</i>
~- ,	HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56A
	HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDU	H5M55A
	HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU	H5M57A
	HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU	H5M58A
	HP 7.3kVA 230 Volt IEC309 32A Input (20xC13) INTL Basic PDU	H5M68A
	HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M61A
	HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU	H5M59A
	HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70A
	HP 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU	H5M60A
	HP 11kVA 230 Volt IEC309 63A Input (30xC13/6xC19) INTL Basic PDU	H5M71A
	HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75A
	HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xNEMA 5-20R) NA/JP Basic PDU	H5M63 <i>A</i>



HP 8.6KWA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) INJ/JP Basic PDU	HP 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU	H5M64A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU H5M73A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU H5M67A HP 19.3kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU H3M30RA HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (10 Outlet) NA Basic PDU H3M30RA HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (10 Outlet) NA Basic PDU H3M30RA HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer H3M309A 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-D75 HP 7.3kVA 32A High Voltage NA/JP Core Modular Power Distribution Unit (252663-D75 HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit (252663-B34 HP 9.5kVA 40A High Voltage INTL Core Modular Power Distribution Unit (252663-B34 HP 9.5kVA 24A Three Phase NA/JP Modular Power Distribution Unit (252663-B34 HP 9.5kVA 24A Three Phase NA/JP Modular Power Distribution Unit (252663-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit (252663-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit (25263-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit (25263-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit (25263-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit (25263-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit (25263-B34 HP 14.4kVA 40A Unit 14.8kYA 14A Three Phase NA/JP Modular Power Distribution Unit (25263-B34 HP 14.4kVA 40A Unit 14.8kYA 14A Three Phase NA/JP Modular Power Distribution Unit (25263-B34 HP 14.8kVA 208 Volt 14.8kYA 208	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 (13 Cutlet) NA Basic PDU H3X07A 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 (15 Outlet) NA Basic PDU H3X07A HP 2.8kVA 240 Low Voltage NA/JP Modular Power Distribution Unit 252663-D71 HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit 252663-D71 HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit 252663-D75 HP 7.3kVA 32A High Voltage NA/JP Core Modular Power Distribution Unit 252663-B33 HP 9.2kVA 40A High Voltage NA/JP Modular Power Distribution Unit 252663-B33 HP 9.2kVA 40A High Voltage NA/JP Modular Power Distribution Unit 252663-B33 HP 9.2kVA 40A High Voltage NA/JP Modular Power Distribution Unit 352663-B34 HP 9.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit 352663-B34 HP 9.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit 352663-B34 HP 1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit 352663-B34 HP 1.7 kVA 48A Three Phase NA/JP Modular Power Distribution Unit 352663-B34 HP 1.7 kVA 48A Three Phase NA/JP Modular Power Distribution Unit 352663-B35 HP 1.7 kVA 48A Three Phase NA/JP Modular Power Distribution Unit 362663-B36 HP 1.7 kVA 48A Three Phase NA/JP Modular Power Distribution Unit 362663-B36 HP 1.7 kVA 48A Three Phase NA/JP Modular Power Distribution Unit 362663-B36 HP 1.7 kVA 48A Three Phase NA/JP Modular Power Distribution Unit 362663-B36 HP 1.7 kVA 48A Three Phase NA/JP Modular Power Distribution Unit 362663-B36 HP 1.7 kVA 48A Three Phase NA/JP Modular Power Distribution Unit 362663-B36 HP 1.7 kVA 200 Volt Detachable C20 Input (12xC13) WW Monitored PDU 904644 HP 3.6 kVA 200 Volt Detachable C20 Input (12xC13) WW Monitored PDU 904644 HP 3.6 kVA 200 Volt E630 10 Input (12xC13) NA/JP Monitored PDU 904644 HP 3.6 kVA 200 Volt E6309 32A Input (12xC13) NA/JP Monitored PDU 904644 HP 3.6 kVA 200 Volt E6309 32A Input (12xC13) NA/JP Monitored PDU 904644 HP 3.6 kVA 200 Volt E6309 32A Input (12xC13) NA/JP Monitored PDU 904644 HP 3	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU	H5M72A
HP 13.2kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU H3X0RA H9 199kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU H3X0BA HP 800VA - 27V Input / 230V Output NA Rack Mount Transformer H3X09A HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit 252663-071 HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit 252663-075 HP 7.3kVA 32A High Voltage NA/JP Core Modular Power Distribution Unit 252663-075 HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit 252663-B33 HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit 252663-B33 HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit 352663-B34 HP 3.kVA 40A Three Phase NA/JP Modular Power Distribution Unit 46513A HP 11kVA 16A Three Phase NA/JP Modular Power Distribution Unit 47513A HP 114.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 47513A HP 12.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 47513A HP 12.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 47513A HP 12.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 47513A HP 12.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 47513A HP 12.4kVA 32A Three Phase INTL Core Modular Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP 2.4kVA 32A Three Phase INTL Core Modular Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP 4.9kVA 20A Volt L6-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N4AA HP 3.6kVA 200-240 Volt Detachable C20 Input (17xC13) WW Monitored PDU D9N4AA HP 3.6kVA 200-240 Volt Detachable C20 Input (17xC13) WW Monitored PDU D9N4AA HP 3.6kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N4AA HP 3.6kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N4AA HP 3.6kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N4AA HP 3.6kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N4AA HP 3.6kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N4AA HP 3.6kVA 200 Vo	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU	H5M73A
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-D75 HP 7.3kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit 252663-D75 HP 9.3kVA 40A High Voltage INTL Core Modular Power Distribution Unit 252663-B34 HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit 252663-B34 HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit 252663-B34 HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit 252663-B34 HP 9.2kVA 40A Three Phase NA/JP Modular Power Distribution Unit 36513-B4 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 36513-B4 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 36513-B4 HP 17.3kVA 49A Three Phase NA/JP Modular Power Distribution Unit 36518-B4 HP 17.3kVA 49A Three Phase NA/JP Modular Power Distribution Unit 36518-B4 HP 17.3kVA 20A Three Phase INTL Core Modular Power Distribution Unit 36518-B4 HP 17.3kVA 20A Unit Detachable Cole Input (12kC13) WM Monitored PDU 36518-B4 HP 18.6kVA 20O-240 Volt Detachable C20 Input (12kC13) WM Monitored PDU 36518-B4 HP 4.9kVA 208 Volt L6-30 Input (12kC13) NA/JP Monitored PDU 36518-B4 HP 4.9kVA 208 Volt L6-30 Input (12kC13) NA/JP Monitored PDU 36518-B4 HP 4.9kVA 208 Volt L6-30 Input (12kC13) NA/JP Monitored PDU 36518-B4 HP 4.9kVA 208 Volt L6-30 Input (12kC13) NA/JP Monitored PDU 36518-B4 HP 4.9kVA 208 Volt L6-30 Input (12kC13) NA/JP Monitored PDU 36518-B4 HP 3.6kVA 200 Volt Ectaoble C20 Input (18kC13/3xC19) NA/JP Monitored PDU 36518-B4 HP 3.6kVA 200 Volt Ectaoble C20 Input (18kC13/3xC19) NA/JP Monitored PDU 36518-B4 HP 3.6kVA 200 Volt Ectaoble C20 Input (12kC13) INTL Monitored PDU 36518-B4 HP 3.6kVA 200 Volt Ectaoble C20 Input (12kC13) INTL Monitored PDU 36518-B4 HP 3.6kVA 200 Volt Ectaoble C20 Input (12kC13) INTL Monitored PDU 36518-B4 HP 3.	HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67A
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit 452663-D74 HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit 452663-D74 HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit 452663-B33 HP 9.2kVA 40A High Voltage NTL Core Modular Power Distribution Unit 452663-B34 HP 9.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit 475124 HP 11kVA 16A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 1.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 11kVA 16A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 11kVA 16A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 11kVA 16A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 12kVA 24A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 12kVA 32A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 12kVA 32A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 12kVA 32A Three Phase NA/JP Modular Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP 2kVA 32A Three Phase InTL Core Modular Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP 2kVA 20A Volt Detachable C20 Input (12kC13) WW Monitored PDU 409N45A HP 3.6kVA 20O-240 Volt Detachable C20 Input (12kC13) WW Monitored PDU 409N45A HP 3.6kVA 200-240 Volt Detachable C20 Input (16kC13) WW Monitored PDU 409N45A HP 4.9kVA 208 Volt L6-30 Input (12kC13) NA/JP Monitored PDU 409N45A HP 4.9kVA 208 Volt L6-30 Input (12kC13) NA/JP Monitored PDU 409N45A HP 4.9kVA 208 Volt L6-30 Input (20kC13/4kC19) NA/JP Monitored PDU 409N45A HP 4.9kVA 208 Volt L6-30 Input (20kC13/4kC19) NA/JP Monitored PDU 409N45A HP 4.9kVA 208 Volt L6-30 Input (20kC13/4kC19) NA/JP Monitored PDU 409N45A HP 8.6kVA 208 Volt L6-30 Input (20kC13/4kC19) NA/JP Monitored PDU 409N5A HP 8.6kVA 208 Volt L6-30 Input (30kC13/3kC19) NA/JP Monitored PDU 409N5A HP 8.6kVA 208 Volt L6-309 32A Input (30kC13	HP 13.2kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU	H3X07A
HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit	HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU	H3X08A
HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit 252663-074 HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit 252663-B33 HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit 252663-B33 HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit 352663-B34 HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit 4F512A HP 11kVA 16A Three Phase NA/JP Modular Power Distribution Unit 4F513A HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 4F513A HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 14.3kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 14.3kVA 40A 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 A.9kVA 20A VOLT DETAIL OF MODULAR POWER DISTRIBUTION UNITS (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP A.9kVA 20A VOLT DETAIL DETAIL (2XNEMA 5-20R)NA/JP Monitored PDU D9N4AA D	HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
HP 8.3kVA 40A High Voltage NAI/P Core Modular Power Distribution Unit 252663-D75 HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit 252663-B34 HP 9.6kVA 24A Three Phase NAI/P Modular Power Distribution Unit AF512A HIGH VOLTAGE Phase NAI/P Modular Power Distribution Unit AF513A HP 14.4kVA 40A Three Phase NAI/P Modular Power Distribution Unit AF513A HP 14.4kVA 40A Three Phase NAI/P Modular Power Distribution Unit AF513A HP 14.4kVA 40A Three Phase NAI/P Modular Power Distribution Unit AF513A HP 12.4kVA 32A Three Phase NAI/P Modular Power Distribution Unit AF511A HP 12.2kVA 32A Three Phase INTL Core Modular Power Distribution Unit NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/ag/pdu. HP 2.8kVA 120 Volt L5-30 Input (12xMEMA 5-20R)NAI/P Monitored PDU D9N43A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU D9N44A HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU D9N44A HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU G9206A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NAI/P Monitored PDU G9206A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NAI/P Monitored PDU G9206A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NAI/P Monitored PDU G9206A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NAI/P Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) NAI/P Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) NAI/P Monitored PDU D9N51A P9 8.6kVA 208 Volt L5-30 3-Phase Input (18xC13/3xC19) NAI/P Monitored PDU D9N51A D9N53A Monitored PDU D9N53A MONITORED P	HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit	252663-D71
HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit HP 9.6kVA 24A High Voltage INTL Core Modular Power Distribution Unit HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit AF513A HP 114.4kVA 40A Three Phase INTL Modular Power Distribution Unit HP 114.4kVA 40A Three Phase INTL Modular Power Distribution Unit HP 12kVA 32A Three Phase INTL Core Modular Power Distribution Unit HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit MOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP Monitored Power Distribution Units (mPDU) HP 2.6kVA 1200 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 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 D9N45A HP 3.6kVA 200-30 Volt Detachable C20 Input (16xC13) WW Monitored PDU D9N45A HP 3.5kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N45A HP 4.9kVA 208 Volt LEC309 32A Input (12xC13) NA/JP Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) NA/JP Monitored PDU D9N48A HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N5A HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N5A HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N5A HP 8.8kVA 208 Volt L15-30 3-Phase Input (12xC13)/3xC19) NA/JP Monitored PDU D9N5A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13)/3xC19) NA Monitored PDU D9N5A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU D9N5A HP 11,4kVA 208 Volt C58265C Input (30xC13/3xC19) NA/JP Monitored PDU D9N5A HP 11,5kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N5A HP 11,5kVA 40	HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D74
HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 11.4kVA 16A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit AF518A HP 17.3kVA 24BA Three Phase NA/JP Modular Power Distribution Unit AF518A NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP A9.6kVA 200 Volt Detarbition Units (mPDU) HP 2.6kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N46A HP 3.6kVA 200-240 Volt Detarbable C20 Input (12xC13) WW Monitored PDU D9N46A HP 3.6kVA 200-240 Volt Detarbable C20 Input (12xC13) WW Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU G9206A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU G9206A HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) NA/JP Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) NA/JP Monitored PDU D9N47A HP 3.6kVA 208 Volt L6-30 Input (20xC13/4xC19) INTL Monitored PDU D9N47A HP 5.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N5A HP 6.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N5A HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N5A HP 8.8kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N5A HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N5A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N5A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N5A HP 116.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N5A HP 116.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N5A HP 116.6kVA 400 Volt	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 AF513A HP 14.4kVA 40A Three Phase INTL Modular Power Distribution Unit AF513A HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit AF513A NOTE: To learn more about HP Basic Power Distribution Unit (AF518A NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP 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 D9N44A HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU D9N44A HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU D9N44A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N44A HP 4.9kVA 208 Volt L6-30 Input (12xC13) INTL Monitored PDU D9N44A HP 4.9kVA 208 Volt L6-30 Input (12xC13) INTL Monitored PDU D9N44A HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) INTL Monitored PDU D9N44A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU D9N44A HP 8.6kVA 208 Volt L6-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N45A HP 8.6kVA 208 Volt L1-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N51A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N51A HP 5.7kVA 208 Volt L1-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N55A Monitored PDU D9N5A Monitored PDU D9N55A HP 8.6kVA 208 Volt C8265C Input (30xC13/4xC19) INTL Monitored PDU D9N55A HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N55A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N55A HP 11.6kVA 208 Volt C8365C 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N56A HP 11.6kVA 208 Volt EG309 30A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N56A HP 11.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU D9N56A HP 11.5kVA 208 Volt C8305C3 -Phase Input (12xC13/	HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit	252663-B33
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HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU 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 HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU D9N63A HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU D9N60A HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU D9N60A HP 22kVA 400 Volt IEC309 32A 3-Phase Watertight Input (12xC13/12xC19) INTL Monitored PDU G9Z08A	HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU	D9N58A
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	HP 22kVA 400 Volt IEC309 32A 3-Phase Watertight Input (12xC13/12xC19) INTL Monitored	



HP Environmental Sensor for Remote Monitored PDUs	E2D53A
NOTE: Please see the HP Monitored Power Distribution Units QuickSpecs for information on addition	nal options and
product specifications.	
HP Intelligent Power Distribution Units (iPDU)	.===.
HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF520A
HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF521A
HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF522A
HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF523A
HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Power Distribution Unit	AF900A
HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distribution Unit	AF901A
HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525A
HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF526A
HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF527A
HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF535A
HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF537A
HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Power Distribution Unit	AF538A
HP 4.9kVA 24A Single Phase NA/JP Intelligent Modular Power Distribution Kit	AF531A
HP 8.6kVA 24A Three Phase NA/JP Intelligent Modular Power Distribution Kit	AF532A
HP 14.4kVA 40A Three Phase NA/JP Intelligent Modular Power Distribution Unit	AF533A
HP 7.3kVA 32A Single Phase INTL Intelligent Modular Power Distribution Kit	AF534A
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the HP Intelligent Power Distribution Units QuickSpecs for information on	
additional options and product specifications.	
HP Managed Power Distribution Units (maPDU)	
HP 2.8kVA 120 Volt L5-30 Input (24x NEMA 5-20) NA/JP Managed PDU	H8B48A
HP 3.6kVA 200-240 Volt Detachable C20 Input (7xC13/1xC19) WW Managed PDU	H8B49A
HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Managed PDU	H8B50A
HP 7.3kVA 200-240 Volt IEC309 32A Input (20xC13/4xC19) INTL Managed PDU	H8B51A
HP 8.6kVA 208 Volt L15-30 3 Phase Input (18xC13/6xC19) NA/JP Managed PDU	H8B52A
HP 8.6kVA 208 Volt L21-30 3 Phase Input (20xC13/3xC19/1x NEMA 5-20) NA/JP Managed PDU	H8B53A
HP 11kVA 400 Volt IEC309 16A 3 Phase Input (21xC13/3xC19) INTL Managed PDU	H8B54A
HP 14.4kVA 208V CS8365C 3 Phase Input (12xC13/12xC19) NA/JP Managed PDU	H8B55A
HP 17.3kVA 208V IEC309 60A 3 Phase Input (12xC13/12xC19) NA/JP Managed PDU	H8B56A
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://www8.hp.com/h20195/v2/GetHtml.aspx?docname=c04376673 (Worldwide)	
NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page.	
HP Rack Mount Consoles	
HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor	AZ870A

HP Rack Mount Consoles, KVM Switches, and Keyboards

HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor	AZ870A
HP TFT7600 G2 KVM Console Rackmount Keyboard UK Monitor	AZ871A
HP TFT7600 G2 KVM Console Rackmount Keyboard DE Monitor	AZ872A
HP TFT7600 G2 KVM Console Rackmount Keyboard FR Monitor	AZ873A
HP TFT7600 G2 KVM Console Rackmount Keyboard IT Monitor	AZ874A
HP TFT7600 G2 KVM Console Rackmount Keyboard ES Monitor	AZ875A
HP TFT7600 G2 KVM Console Rackmount Keyboard DK Monitor	AZ876A
HP TFT7600 G2 KVM Console Rackmount Keyboard NO Monitor	AZ877A
HP TFT7600 G2 KVM Console Rackmount Keyboard SE/FI Monitor	AZ878A

Additional Options

HP TFT7600 G2 KVM Console Rackmount Keyboard CH Monitor	AZ879A
HP TFT7600 G2 KVM Console Rackmount Keyboard PT Monitor	AZ880A
HP TFT7600 G2 KVM Console Rackmount Keyboard BE Monitor	AZ881A
HP TFT7600 G2 KVM Console Rackmount Keyboard JP Monitor	AZ882A
HP TFT7600 G2 KVM Console Rackmount Keyboard RU Monitor	AZ883A
HP TFT7600 G2 KVM Console Rackmount Keyboard Intl Monitor	AZ884A
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
·	AF629A AF611A
HP 1x4 USB/PS2 KVM Console Switch	AF611A AF620A
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF62UA AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A AF622A
NOTE: To learn more, please visit the HP KVM Switches web page.	AFOZZA
HP USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
NOTE: Please see the HP USB Keyboard and Mouse QuickSpecs for information on additional options and product specifications.	
additional options and product specifications.	

HP Uninterruptible

HP Rack-mountable UPS

Power Systems (UPS) HP R1500 G3 Uninterruptible Power Supply (UPS)

HP R1.5kVA G3 1U INTL Uninterruptible Power System

HP R1.5kVA G3 1U JP/TW Uninterruptible Power System

AF471A

AF471A

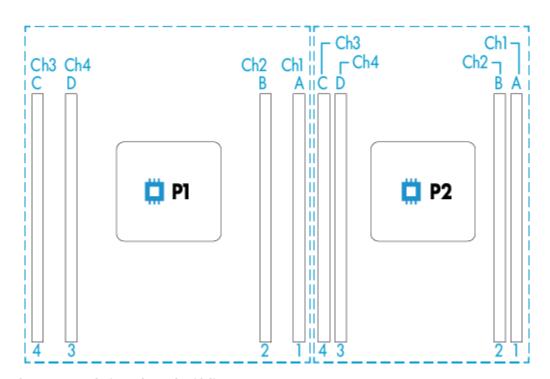


	HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A
	HP R/T3000 Uninterruptible Power System (UPS)	
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System	AF468A
	R5000 Uninterruptible Power System (UPS)	
	HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
	HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
	R7000 Uninterruptible Power System (UPS)	
	HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
	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 T750 G2 750VA INTL Tower Uninterruptible Power System	AF447A
	HP T750J JP Uninterruptible Power System	AF456A
	HP T1000 G3 UPS Models	
	HP T1000 G3 1000VA INTL Tower Uninterruptible Power System	AF449A
	HP T1500 G3 UPS Models	
	HP T1500 G3 1400VA NA Tower Uninterruptible Power System	AF450A
	HP T1500 G3 1400VA INTL Tower Uninterruptible Power System	AF451A
	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 DL60/DL80 SVC	U7WZ5E
	HP Startup DL60/DL80 Service	U7WZ7E
	Foundation Care	
	HP 3y Nbd DL60 Gen9 FC Service	U7VX4E
	HP 3y Nbd w/DMR DL60 Gen9 FC Service	U7VX5E
	HP 3y Nbd w/CDMR DL60 Gen9 FC Service	U7VX6E
	HP 3y 24x7 DL60 Gen9 FC Service	U7VX7E
	HP 3y 24x7 w/DMR DL60 Gen9 FC Service	U7VX8E
	HP 3y 24x7 w/CDMR DL60 Gen9 FC Service	U7VX9E
	Proactive Care	
	HP 3y 24x7 DL60 Gen9 PC Service	U7WA4E
	HP 3y 24x7 w/DMR DL60 Gen9 PC SVC	U7WA5E

Memory

Memory Subsystem Architecture Each Intel® Xeon® E5-2600v3 family processor socket contains four memory channels per installed processor with one DIMM per channel for a total of four (4) DIMMs or a grand total of eight (8) DIMMs for the server.

Memory Population guidelines



General Memory Population Rules and Guidelines:

- . 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 load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- . White DIMM slots denote the first slot to be populated in a channel.
- . Do not mix RDIMMs or LRDIMMs.
- . Quad rank RDIMMs are not supported in HP ProLiant DL60 Gen9 servers.
- . 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.
- . To realize the performance memory capabilities listed in this document, HP SmartMemory is required.

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

Memory Bandwidth and Capacity

[DIMM Type]			Reg	istered Dim	ms (RDIMM	s)		Load Reduced (LRDIMMs)	Unbuffered with ECC DIMMs (UDIMMs)
DIMM Rank	Single	Rank	Dual	Rank				Dual Rank	Quad Rank
DIMM Capacity	4GB	8GB	8GB	16GB				16GB	32GB
Voltage						Std Voltag	e 1.2V		

SLOTS THAT CAN BE POPULATED

Memory

16 slot servers	8	8			8		
MAXIMUM CAPACITY (GB)							
	128	256			512		
1 DIMM Per Channel				2133	3		

DIMM slot and configuration diagram

DIMM slot and configuration diagrams

Basic memory slot & population diagram

- 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

		CPU 1	CPU 2	
	Slot #	population order	Slot # population order	
Chnl 1	1	A1	1 A1	
		CPU 1	CPU 2	
	Slot #	population order	Slot # population order	·
Chnl 2	2	B2	2 B2	
		CPU 1	CPU 2	
	Slot #	CPU 1 population order	CPU 2 Slot # population order	
Chnl 4	Slot #			
Chnl 4	_	population order	Slot # population order	
Chnl 4		population order D3	Slot # population order 3 D3	

Memory Speed by Processor Model

Processor Models	Supported Memory Speeds
E5-2603v3, E5-2609v3,	1600MHz
E5-2620v3, E5-2630v3, E5-2640v3, E5-2623v3, E5- 2630Lv3,	1866MHz
E5-2650v3, E5-2660v3, E5-2650Lv3,	2133MHz

Standard and Maximum Memory Capacity (Preconfigured Models)

Pre-Configured Models	•	•	Standard Memory Replaced with Optional Memory
E5-2603v3,	4GB (1x4GB)	116GB (7x16GB, 1x4GB)	256GB (8x32GB)
E5-2609v3,	8GB (1x8GB)	120GB (7x16GB, 1x8GB)	256GB (8x32GB)

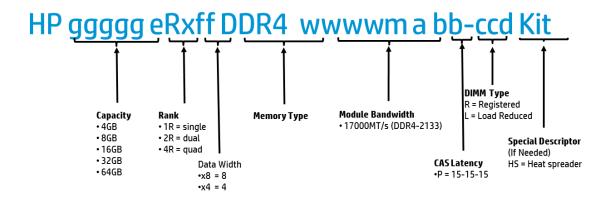


Memory

DDR4 memory options part number decoder

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

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



Storage



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

Technical Specifications

S١	ıst	em	U	ni

Dimensions

4 LFF - 1.69 x 17.11 x 23.9 inches (4.29 x 43.46 x 60.70 cm)

37.44 lb (17kg)

 $(H \times W \times D)$

Weight (approximate) Maximum: (all hard drives.

power supplies, and

processors installed) Minimum: 19.82 lb (9kg)

(one hard drive, power supply, and processor installed)

Input

Rated Line Voltage 100 to 240 VAC

Requirements for Standard 460W

Rated Input Current For 550W Power Supply:

PSU, see power specifications tables for detail on 460W.

Rated Input

6.7 A (at 100 VAC) 3.3 A (at 100 VAC)

750W and 1200W Frequency 47 to 63 Hz

power supplies) Rated Input Power

For 550 W Power Supply: < 670 W (at 100 VAC), < 660 W (at 200 VAC),

BTU Rating

Maximum

For 550 W Power Supply: 2201 BTU/hr (at 100 VAC). 2153 BTU/hr (at 200 VAC)

Power **Specifications** To review typical system power ratings use the Power Advisor which is available via the

online tool located at URL: www.hp.com/go/proliant-energy-efficient or

www.hp.com/go/hppoweradvisor - Click on the system of interest. Example: DL160 Gen9-

Follow the instructions of the next screens.

Power Supply Output

Rated Steady-State For 550 W Power Supply: 550 W (at 100 VAC).

550 W (at 200 VAC),

Maximum Peak

Power

Power

For 550 W Power Supply: 550 W (at 100 VAC),

550 W (at 200 VAC),

System Inlet **Temperature** Standard Operating

Support

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C

per every 305 m (1.8°F per every 1000 ft) above sea level to a

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

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

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

System performance may be reduced if operating in the extended ambient operating range or with a fan fault.

NOTE: Supports A3 extended ambient.

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.

Technical Specifications

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

temperature, non-condensing.

Altitude 3048 m (10,000 ft). This value may be limited by the type and number Operating

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 Entry 5.7 B

Base 5.0 B

L pAm Entry 33 dBA

Base 37 dBA

Operating

L WAd Entry 5.8 B

Base 5.5 B

L pAm Entry 38 dBA

Base 40 dBA

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

Controller

Array B140i **PCI link rate**

4 Gb/s Storage protocol

support

SATA

SAS/SATA peak

6 Gb/s

data tranfer rate

Number of SAS/SATA links 10 links

SAS/SATA

2x4 connectors; 2x1 connectors

connectivity

Expander support No

Drives supported

(max)

Up to 10 Internal Drives

RAID support

0, 1, 10, 5 SATA HP SSA, SMH, SIM

Software management

Warranty **HP Secure** Server warranty Not Supported

Encryption license

HP SmartCache

Not Supported

License

Administrator

HP Smart Storage Supported

Technical Specifications

HP Embedded Dual Network Interface 10Base-T/100Base-TX/1000Base-TX Port 361i Adapter

Compatibility IEEE 802.3 10Base-T

IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS

IEEE 802.3az - Energy Efficient Ethernet (EEE)

Data Transfer

PCI Express v 2.0, 5.0 GT/s, two lanes (x2)

Method

Controller **Network Transfer** Intel 1350 Powerville 10Base-T (Half-

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

Rate

Duplex)

10Base-T (Full-Duplex)

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

100Base-TX (Half-

Duplex)

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

100Base-TX (Full-

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

Duplex)

1000Base-TX (Half

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

and Full-Duplex) Two RJ-45

Connector Cable Support

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

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.



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