**Overview** 

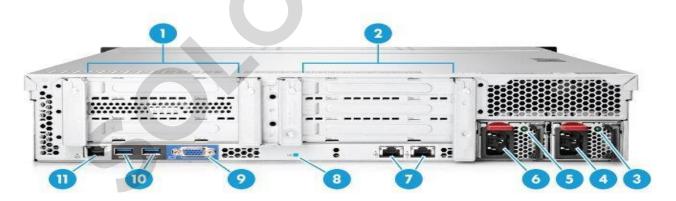
# **HP ProLiant DL180 Generation9 (Gen9)**

The new standard for growing data center needs. Delivering an optimized 2U server, designed with the right balance of expandability, performance, reliability, and manageability—all in a new compact chassis. The ideal platform for SMBs and enterprises running applications, which need the right mix of compute and storage.



### **Front View**

- Access Panel (Top Cover) 1.
- 2. Power On/Standby button and system power LED
- 3. Health LED
- 4. NIC status LED
- 5. UID button/LED
- 6. USB 2.0 connector
- 7. Serial label pull tab
- 8. Fixed 8-bay SFF drive cage (box 3)
- 9. 8-bay SFF drive cage bay (box 2, for the second 8-bay SFF drive cage option)
- 10. HP Media Bay (box 1, for the optical drive cage option)

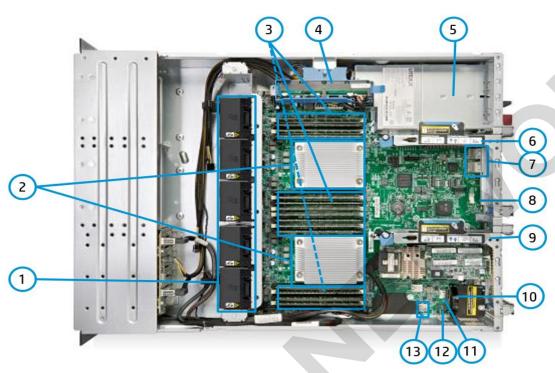


### **Rear view**

- 1. PCIe3 slots 1-3 (primary, associated with processor 1)
- PCIe3 slots 4-6 (secondary, associated with processor 2) 2.
- Power Supply 2 LED (Optional) 3.
- 4. Power Supply 2 Power Connector (Optional)
  - **NOTE:** RPS shown in the picture.
- Power Supply 1 LED (Optional) 5.

# **Overview**

- 6. Power Supply 1 Power Connector (Optional)
- 7. NIC connectors
- **UID LED** 8.
- **Video Connector** 9.
- 10. USB 3.0 Connectors
- 11. Dedicated iLO connector (optional)



### **Internal View**

- Fan cage shown with 5 Hot-swap fans (for 2P Redundancy)
- 2. 2 Processors, heatsink showing, with HP Smart Socket Guide
- DDR4 DIMM slots. Shown fully populated in 16 slots (8 per 3. processor)
- **Optional HP Smart Storage Battery** 4.
- Entry level power supply bay (1x900W shown) **NOTE:** RPS (with one module) shown in the picture above.
- Connection for second (optional) riser (Required second 6. CPU)
- Embedded 2x1GbE NIC 7.
- 8. Flexible LOM sideband signal connector
- Primary PCIe riser, standard 9.
- 10. Dedicated iLO module connector
- 11. MicroSD card slot
- 12. SATA optical drive connector
- 13. Internal USB 3.0 connector (for USB flash devices)

# **Standard Features**

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

**Processor** One of the following depending on model

Model	CPU	Cores	L3 Cache	Power	QPI	DDR4 Hz
	frequency					
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

Intel® C610 Series Chipset

One of the following Intel® E5-2600v3 Processor Family

depending on model **NOTE:** For more information regarding Intel chipsets, please see the following URL:

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

On System Management

HP iLO (Firmware HP iLO4 2.0) 2GB NAND

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 HP SmartMemory

depending on

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM) 16

model **DIMM Slots Available** 

(8 DIMM slots per processor, 4 channels per processor, 2 DIMMs

per channel)

**Maximum Capacity** 

(16 x 32GB LRDIMM @2133MHz) 512GB

(LRDIMM)

(16 x 32GB RDIMM @2133MHz) 512GB

**Maximum Capacity** (RDIMM)

**Memory Protection** Advanced ECC

One of the following

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.

Network Controller HP 1Gb 361i Ethernet Adapter

One of the following depending on model

**Expansion Slots** 

# **Standard Features**

Primary Riser (Optional)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 3.0	<b>x8</b>	x8		Full-height, full- length slot	
	2	PCIe 3.0	x8	x8		Full-height, half- length slot	
	3	PCIe 3.0	x8	x8		Full-height, half- length slot	4
	<b>NOTE:</b> Bus	Width data in	dicates the	number of p	hysical electi	rical lanes running to t	the connector.
Primary Riser (Optional)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 3.0	x16	x16		Full-height, full- length slot	
	2	PCIe 3.0	x8	x8		Full-height, half- length slot	
Riser with Flexible LOM	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
(Optional)	1	PCIe 3.0	8x	x8		Full-height, full- length slot	
	2	PCIe 3.0	8x	x8		Full-height, half- length slot	
	3	Flexible LOM				Full-height, half- length slot	Can only be used for flexibleLOMs
	<b>NOTE:</b> This riser is mandatory for installing Flexible LOMs & has to be installed in Primary riser slot.				rimary riser slot.		

Storage Controller Entry Models

depending on model

HP Dynamic Smart Array B140i Controller

One of the following NOTE: Provides support for up to 10 SATA drives and data transmission speeds up to 6Gb/s and supports RAID 0, 1 & 5.

**NOTE:** When populating slots on second riser, a second processor must be installed.

**Base Models** HP Dynamic Smart Array B140i Controller

HP H240 FIO Smart Host Bus Adapter

NOTE: H240 Provides support for up to 8 SAS/SATA drives, data transmission speeds up to

12Gb/s and supports RAID 0, 1 & 5.

Storage Models HP Flexible Smart Array P840/4G FIO Controller

NOTE: P840 Provides support for up to 16 SAS/SATA drives, data transmission speeds up to

12Gb/s.

Performance Models HP Flexible Smart Array P840/4G FIO Controller

**NOTE:** P840 Provides support for up to 16 SAS/SATA drives, data transmission speeds up to

12Gb/s.

Internal Storage **Devices** 

One of the following Hard Drives depending on **Hard Drive Bays** model

**Optical Drives** 

Optional: DVD-ROM, DVD-RW

**NOTE:** This option available with all 8SFF drive bay models only.

None ship standard

8 SFF drive bays total with Optical Bay

Optional: +8SFF drive bay (total of 16SFF drive bays)

NOTE: The Optical Drive bay is not available with +8SFF drive bay optional

upgrade.

8 LFF drive bays total without Optical Bay

**NOTE:** Optical drive is not supported on LFF Chassis.

12 LFF drive bays total without Optical Bay Up to 4 Non-hot plug SATA 3.5" drives

# Standard Features

Maximum Internal		CAPACITY	CONFIGURATION
Storage	Hot Plug SFF SAS	32TB	16x2TB (with 16SFF drive cage)
One of the following	Hot Plug SFF SATA	32TB	16x2TB (with 16SFF drive cage)
depending on model	Hot Plug LFF SAS	96.0TB	12x8TB (with 12LFF drive cage)
mouet	Hot Plug LFF SATA	96.0TB	12x8TB (with 12LFF drive cage)
	Hot Plug SFF SAS SSD	30.7TB	16x1.92TB (with 16SFF drive cage)
	Hot Plug SFF SATA SSD	25.6TB	16x1.6TB (with 16SFF drive cage)
	Hot Plug LFF SATA SSD	19.2TB	12x1.6TB (with 12LFF drive cage)
	Non-Hot Plug LFF SATA	32TB	8x4TB (with 8LFF drive cage)

# **Power Supply**

**HP 550W FIO Power Supply** 

One of the following HP 800W/900W Gold AC Power Input Module

depending on model 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.

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 F	ans
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One of the following 1P model depending on model

Non-redundant 2 fans

Redundant 4 fans

2P model

4 fans

Non-redundant

Redundant 5 fans

**NOTE:** Customers may separately purchase redundant fans with the 725571-B21 option kit. Additional fans (two) are also included in -B21 processor option kits when upgrading from one processor to two processors.

### Interfaces

Video 1 (Vaux Support) **LOM Network Ports** 2x1GbE ports **HP iLO Remote Management** 1 GbE (Optional)

**Network Port** 

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** Up to 4 USB ports (standard);

Front: 1xUSB 2.0 std; (1xUSB3.0 optional upgrade with quick

release ears)

# Standard Features

Rear: 2xUSB 3.0 Internal: 1xUSB 3.0

NOTE: 8LFF & 12LFF drive cage models with Quick release latch rack ears supports front USB 3.0.

and Virtualization **Software Support** for ProLiant **Servers** 

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

> **Oracle Solaris 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/DL180Gen9.

Upgradeability

Upgradeable to two processors (24 cores)

One of the following Up to 16 DIMM slots available

depending on model NOTE: To take advantage of DIMMs 9-16, a second processor must be installed.

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

Optional 2 slot riser (x16, x8)

NOTE: To take advantage of the additional 2 PCI slot upgrade, a second processor must be installed.

Redundant Power Supply

Redundant Fan

Optical Drive (8 SFF/16 SFF only)

Compliance

Industry Standard ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support

**WOL Support** 

Microsoft® Logo certifications

**USB 3.0 Support** ASHRAE A3/A4

**NOTE:** Supports A3 & A4 extended ambience.

**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

# Standard Features

- USB 3.0 Stack
- **Embedded UEFI Shell**
- Mass Configuration Deployment Tool using HP RESTful API.
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM

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

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

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

### **Form Factor**

2U Rack form factor

One of the following All models ship with Easy Install rails (Cable management arm optional).

depending on model 8 SFF Drive Bay Version:

3.44 (8.75 cm) Height x 17.54" (44.55 cm) Width x 23.9" (60.70 cm) Length

8 LFF Drive Bay Version:

3.44 (8.75cm) Height x 17.54" (44.55 cm) Width x 23.9" (60.70 cm) Length

12 LFF Drive Bay Version:

3.44 (8.75cm) Height x 17.54" (44.55 cm) Width x 23.9" (60.70 cm) Length

16 SFF Drive Bay Version:

3.44 (8.75 cm) Height x 17.54" (44.55 cm) Width x 23.9" (60.70 cm) Length

## **Embedded** Management

**HP** Integrated

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

Support

**Embedded Remote** 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.

## **Server utilities**

**HP Smart Update** 

Optimize firmware and driver updates with HP Smart Update solutions. Learn more at http://www.hp.com/go/smartupdate.

Manager (HP SIM)

HP Systems Insight HP SIM allows you to monitor the health of your HP ProLiant Servers and HP Integrity Servers, and also provides you with basic support for non-HP servers. HP SIM also integrates with HP SUM to provide guick and seamless firmware updates. Learn more at http://www.hp.com/go/sim.

**HP OneView** Standard

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

# Standard Features

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

**HP RESTful Interface Tool**  HP RESTful Interface tool is a scripting tool to provision servers using RESTful

API Interface to discover and deploy servers at scale. Learn more at

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

**HP iLO Mobile Application** 

Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: http://www.hp.com/go/ilo/mobileapp.

**HP Insight Online** 

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

### Security

Power-on password 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 3-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 <a href="http://www.hp.com/go/oneview">http://www.hp.com/go/oneview</a>.

# **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.

HP Insight Cluster Management Utility (CMU) is an HP-licensed and HP-supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective. http://www.hp.com/go/cmu.

**NOTE:** High Performance Computing (HPC) interconnect technologies are available for this server as part of the HP Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by HP when integrated within an HP cluster. Flexible, validated solutions can be defined with the help of configuration tools. http://www.hp.com/techservers/clusters/ucp/index.html.

**HPC Interconnects NOTE:** High Performance Computing (HPC) interconnect technologies are available for this server under the HP Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP

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# **Optional Features**

when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPC Clusters with InfiniBand Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html.

### Storage Software

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

## **Data Protection and Recovery Software**

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

### **Data Archive and Migration Software**

HP's storage software enables you to comply with data retention and retrieval requirements. improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.

## Storage Resource Management Software (SRM)

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

# **Data Replication Software**

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

# Storage Device Management Software

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

With HP StoreVirtual VSA you can use the power of virtualization to create a virtual array within your host server. Manage it as a single pool of shared storage capacity, and scale it to match your evolving 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.

# (SCE)

**One Config Simple** 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.

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# 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, anv 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

### 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

# Get connected to **HP** to improve your support experience

Prevent problems with innovative, automated monitoring tools and proactive services. Combining Proactive Care 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.

## For more information

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

# **Pre-configured Models**

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

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

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

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

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

	Entry	Models	Base I	Models	
[SKU Number]	778452-B21	778453-B21	778454-B21	778455-B21	
Model Name	HP ProLiant DL180 Gen9 E5-2603v3 1P 8GB-R B140i 4LFF NHP SATA 550W PS Entry Server	HP ProLiant DL180 Gen9 E5-2603v3 1P 8GB-R B140i 8LFF Hot Plug SATA 550W PS Entry Server	HP ProLiant DL180 Gen9 E5-2609v3 1P 8GB-R H240 8LFF SAS 550W PS Base Server	HP ProLiant DL180 Gen9 E5-2609v3 1P 8GB-R H240 8SFF SAS 550W PS Base Server	
Processor	Intel® Xeon	® E5-2603v3	Intel® Xeon®	® E5-2609v3	
Number of Processors			One		
Memory	8GB (1x8GB Registered DIMMs, 2133 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 1600 MHz in this model.			600 MHz in this model.	
Network Controller		HP Ethernet 1Gb	HP Ethernet 1Gb 2-port i350 Adapter		
Storage Controller	HP Dynamic Sr	nart Array B140i	HP H240 FIO Smart Host Bus Adapter		
Hard Drive	None ship standard; includes 4 LFF hard drive blanks			None ship standard; includes 6 SFF hard drive blanks	
Internal Storage	4 LFF HDD Bays (Non Hot Plug)	8 LFF HDD Bays		8 SFF HDD Bays	
Optical Drive Bay		Not Available		1; (Optional: DVD-ROM, DVD-RW)	
PCI-Express Slots		3 Standard (1-	-FL/FH, 2-FH/HL)		
Power Supply		(1) HP 550W F	10 Power Supply		
Fans		2 hot swap fans, non-redundant			
Management	iLO Management	(standard), Intelligent Pro	visioning (standard), iLO E	ssentials (optional)	
Form Factor		Rack (2U), HP	Easy Install Rails		
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.			t with next business day	

# **Pre-configured Models**

	Storage Models	Energy Star Models		
[SKU Number]	778456-B21	778457-B21		
Model Name	HP ProLiant DL180 Gen9 E5-2623v3 1P 16GB-R P840 12LFF SAS 900W PS Storage Server	HP ProLiant DL180 Gen9 E5-2630v3 2P 32GB-R P840/4G 16SFF SAS 800W RPS ES Server		
Processor	Intel® Xeon® E5-2623v3	Intel® Xeon® E5-2630v3		
Number of Processors	One	Two		
Memory	16GB (2x8GB Registered DIMMs, 2133 MHz)	32GB (2x16GB Registered DIMMs, 2133 MHz)		
Network Controller	HP Ethernet 1Gb	HP Ethernet 1Gb 2-port i350 Adapter		
Storage Controller	HP Flexible Smart Arra	HP Flexible Smart Array P840/4G FIO Controller		
Hard Drive	None sh	ip standard		
Internal Storage	12 LFF HDD Bays	16 SFF HDD Bays		
Optical Drive Bay	Not Available	1; (Optional: DVD-ROM, DVD-RW)		
PCI-Express Slots	3 Standard (1-	-FL/FH, 2-FH/HL)		
Power Supply	(1) HP 900W Redundant Power Supply	(2) HP 900W Redundant Power Supply		
Fans	4 hot plug fans, redundant	5 hot plug fans, redundant		
Management		iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional)		
Energy Star		Meets Energy Star requirements		
Form Factor	Rack (2U), HP Easy Install Rails	Rack (2U), HP Easy Install Rails with CMA		
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.			

**Country Code Key** 

Worldwide xx1 = B21

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

xx1 = 291Japan PRC xx1 = AA1

# 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 DL180 Gen9 Non-hot Plug LFF Configure-to-order Server	HP ProLiant DL180 Gen9 Hot Plug 8LFF Configure-to-order Server	HP ProLiant DL180 Gen9 Hot Plug 8SFF Configure-to-order Server	HP ProLiant DL180 Gen9 Hot Plug 12LFF Configure-to-order Server	
SKU Number	754525-B21	754524-B21	754523-B21	775506-B21	
Processor		2 (optional) x HP	Smart Socket Guide		
DIMM Slots		16 DIMM slots for RDIM	M, LRDIMM DDR4 Memory		
Storage Controller	HP Dynamic Smart Array B140i				
PCIe	3 PCIe slots (-	3 PCIe slots (+3 PCI slots available with upgrade option, second processor required)			
Drive Cage	4LFF or 8LFF Non Hot Plug	8LFF Hot Plug (+4LFF optional field upgradable)	8SFF Hot Plug (+8SFF Optional)	12LFF Hot Plug	
Network Controller	•	HP Ethernet 1Gb	2-port i350 Adapter		
Fans		2 hot swap fans, non-redundant			
Management	iLO Managemen	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional)			
USB		1 front, 1 internal, 2 rear			
Ears	Optional	HP Quick Release Ears	Optional	HP Quick Release Ears	
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**NOTE:** HP ProLiant DL180 Gen9 Non-hot plug chassis (P/N-754525-B21) supports both 4LFF and 8LFF configurations.

**NOTE:** Thumb screw ears are not supported on Hot Plug LFF Chassis.

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

## **HP Processors**

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

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

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

### **HP Memory**

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

- 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.

# Configuration Information - Factory Integrated Models

- 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.

### Power Supplies -100 series servers

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

- Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HP Power Advisor tool to determine the right size power supply for your server configuration. The HP Power Advisor is located at: http://www.hp.com/go/hppoweradvisor.
- By RPS Enablement Kit power options, mixing of power supplies in the same RPS enablement kit 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.

# Configuration Information - Factory Integrated Models

## **HP Graphics Options**

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

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

**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 Storage Controllers**

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

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

## **HP 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 Rail Kits**

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

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

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

SOIQUITCK 5062-6971 (21) 4062-6971 (31) 4062-6971 (41) 4062-6971 (48) 4062-6971 (51) 4062-6971 (61) 4062-6971 (71) 4062-7479 HP ProLiant DL180 Generation (Gen9)

# **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.

the ase of all the app	or over configuration. Contact your local sales representative for additional information.	
<b>HP Unique Options</b>	HP DL180 Gen9 Dedicated iLO Management Port Kit	725581-B21
	HP DL180 Gen9 8SFF Hard Drive Cage/Backplane Kit	725572-B21
	HP DL180 Gen9 12LFF Hot Plug Enablement Kit <b>NOTE:</b> This can be used only with 8LFF Hot Plug Chassis and contains the controller cables required for upgrade.	725574-B21
	HP DL180 Gen9 3 Slot x8 PCI-E Riser Kit	725569-B21
	HP DL180 Gen9 x16 PCI-E Riser Kit	725570-B21
	HP Quick-release Latch Rack Ears FIO Kit <b>NOTE:</b> This option kit is required for Security Bezel. This option also provides one front USB 3.0 upgrade.	725579-B21
	HP AHCI-Enable FIO Setting  NOTE: This needs to be selected when Advanced Host Controller Interface mode is required with B140i controller.	801845-B21
HP Processors	Entry Processors - E5-2600v3 series Processors	
	HP DL180 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	733925-B21
	HP DL180 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit	733925-L21
	HP DL180 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	733929-B21
	HP DL180 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit	733929-L21
	Base Processors - E5-2600v3 series Processors	
	HP DL180 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	733916-B21
	HP DL180 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	733916-L21
	HP DL180 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	733918-B21
	HP DL180 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit	733918-L21
	HP DL180 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	763226-B21
	HP DL180 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit	763226-L21
	HP DL180 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit	733921-L21
	HP DL180 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	733921-B21
	HP DL180 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	779830-B21
	HP DL180 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit	779830-L21
	Performance Processors - E5-2600v3 series Processors	
	HP DL180 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	733912-B21
	HP DL180 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	733912-L21

SO QUETCK Spec (21) 4062-6971 (31) 4062-6971 (41) 4062-6971 (48) 4062-6971 (51) 4062-6971 (61) 4062-6971 (71) 4062-7479 HP ProLiant DL180 Generation (Gen9)

	HP DL180 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	733914-B21
	HP DL180 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit	733914-L21
	HP DL180 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	763222-B21
	HP DL180 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	763222-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
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	HP 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 Standard Memory	
	HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803026-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803028-B21
	<b>NOTE:</b> These memory options are available as standalone only and can not be configu These are standard memory DIMMs with no Smart Memory features.	ired in the factory
HP Optical Drives	HP DL180 Gen9 Optical Disk Drive Enablement Kit	725582-B21
	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 Mobile USB Non Leaded System DVD RW Drive	701498-B21
	<b>NOTE:</b> Optical drive is not supported on LFF models.	
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
	HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard	791034-B21
	Drive	
	HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21
		781518-B21 718162-B21
	HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	
	HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21
	HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	718162-B21 785069-B21
	HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard	718162-B21 785069-B21 652589-B21

HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793703-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793671-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21

HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	628061-B21 658079-B21 657750-B21 658071-B21
SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801888-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	628065-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801886-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659339-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801884-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659337-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801882-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 SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779176-B21
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779172-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779168-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779164-B21
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691868-B21

HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691866-B21
HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691864-B21
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	757339-B21
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717973-B21
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21
HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739888-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717969-B21
HP 240GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789135-B21
HP 480GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789145-B21
HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789155-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804575-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives	
HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816929-B21
HP 1.92TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816919-B21
HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816909-B21
HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816899-B21
HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816889-B21
HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816879-B21
6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value G1 Solid	
State Drives	
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756657-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756636-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756621-B21
CC CATA Hat Dive CFF (2 F inch) Futorevise Light C4 Calid Ctata Duives	

6G SATA Hot Plug SFF (2.5-inch) Enterprise Light G1 Solid State Drives

HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive	756601-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives	
HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	817011-B21
HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-B21
HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816985-B21
HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816975-B21
HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816965-B21
6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1 Solid	
State Drives	764020 B24
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764929-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764927-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764925-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764923-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive	717965-B21
HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734360-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691860-B21
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-B21
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B21
6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise Value G1	
Solid State Drives	
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756660-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756639-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756624-B21

6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise	Value M1
Solid State Drives	e value M I
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3 M1 Solid State Drive	Byr Wty 764945-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3 M1 Solid State Drive	Byr Wty 764943-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3 M1 Solid State Drive	Byr Wty 764941-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3 M1 Solid State Drive	Byr Wty 764939-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise V Wty Solid State Drive	alue 3yr 757342-B21
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr V State Drive	Vty Solid 718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Conveter Enterprise V Wty Solid State Drive	alue 3yr 739900-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr V State Drive	Vty Solid 718183-B21
HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Wty Solid State Drive	Value 3yr 739890-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr V State Drive	Vty Solid 718177-B21
HP 240GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid Drive	State 789137-B21
HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid Drive	State 789147-B21
HP 960GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid Drive	State 789157-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Dr	ive 804578-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State I	Orive 804584-B21
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State I	Orive 804590-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State I	Orive 804596-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State I	Orive 804602-B21
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State D	rive 804608-B21
6G SATA Hot Plug LFF (3.5-inch) RI-3 SCC SSD	
HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty So Drive	lid State 816933-B21
HP 1.92TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty So Drive	lid State 816923-B21
HP 960GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Sol Drive	id State 816913-B21
HP 480GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Sol Drive	id State 816903-B21
HP 240GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Sol Drive	id State 816893-B21
HP 120GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Sol Drive	id State 816883-B21

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

SO QUETCK Spec (21) 4062-6971 (31) 4062-6971 (41) 4062-6971 (48) 4062-6971 (51) 4062-6971 (61) 4062-6971 (71) 4062-7479 HP ProLiant DL180 Generation (Gen9)

	UD OCCUPANTALIS LIFE A CONTRACTOR OF THE CONTRAC	755504 D24
	HP 960GB 6G SATA Light Endurance LFF 3.5-in SC Converter ENT Light 3yr Wty G1 Solid State Drive	756604-B21
	HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
	HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
	HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804634-B21
	HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	832417-B21
	6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD	
	HP 1.92TB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	817015-B21
	HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816999-B21
	HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816989-B21
	HP 240GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816979-B21
	HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816969-B21
	6G SATA Hot Plug LFF (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
	M.2 SSD	
	HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	777894-B21
	HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	788028-B21
	NOTE: M.2 drives go in PCIe slot and use B140i SATA controller only.  Hard Drive Blank Kits	
	HP Large Form Factor Hard Drive Blank Kit	666986-B21
	HP Small Form Factor Hard Drive Blank Kit	666987-B21
	Hard Drive Kits	
	HP DL180 Gen9 8SFF Hard Drive Cage/Backplane Kit	725572-B21
	HP DL180 Gen9 12LFF Hot Plug Enablement Kit	725574-B21
HP Networking	1 Gigabit Ethernet adapters	
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HP Ethernet 1Gb 4-port 366T Adapter	811546-B21
	10 Gigabit Ethernet adapters	
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
	FlexibleLOM Adapters	
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
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	HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
IP InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
IP I/O Expansion	HP DL180 Gen9 3 Slot x8 PCI-E Riser Kit	725569-B21
Options	HP DL180 Gen9 x16 PCI-E Riser Kit	725570-B21
	HP DL180 Gen9 FlexibleLOM Enablement Kit	780965-B21
HP Power Supplies	HP Entry-Level Power Supplies HP 550W FIO Power Supply Kit NOTE: The above power supply option is 80Plus Silver-certified with an efficiency rating of up to 89%. Power specifications and technical content for all HP Server power supplies can be found at http://www.hp.com/go/proliant/powersupply.	730941-B21
	HP 800W Gold (Redundant)/900W (Non-Redundant) AC Power Input Module  NOTE: HP Server RPS Backplane Kit (P/N: 745813-B21) is required for this power supply.  NOTE: Up to two of these option kits can be selected in one system.  NOTE: This kit is only available as option kit and cannot be factory installed in the server.  NOTE: With just one power supply module installed, up to 900W wattage is supported while with both power supply modules installed in RPS mode, up to 800W is supported	744689-B21
	HP Server Redundant Power Supply Backplane Kit  NOTE: This kit is only available as option kit and cannot be factory installed in the server.  NOTE: The above power supply option is 80Plus Gold-certified with an efficiency rating of up to 92%. Each power backplane kit (745813-B21) can support up to two (2) AC power input modules (744689-B21). Power specifications and technical content for all HP Server power supplies can be found at <a href="http://www.hp.com/go/proliant/powersupply">http://www.hp.com/go/proliant/powersupply</a> .	745813-B21
	HP 800W Gold (Redundant)/900W (Non-Redundant) AC Power Input FIO Module NOTE: HP Server RPS FIO Backplane Kit (P/N: 813535-B21) is required for this power supply.  NOTE: Up to two of these option kits can be installed in one system.  NOTE: This FIO kit only be bought integrated in the server. It cannot be ordered as standalone option after server purchase.  NOTE: With just one power supply module installed, up to 900W wattage is supported while with both power supply modules installed in RPS mode, up to 800W is supported	813534-B21
	HP Server Redundant Power Supply Backplane FIO Kit  NOTE: Required for RPS capability.  NOTE: This FIO kit only be bought integrated in the server. It cannot be ordered as standalone option after server purchase.  NOTE: The above power supply option is 80Plus Gold-certified with an efficiency rating of up to 92%. Each power backplane kit (813535-B21) can support up to two (2) AC power input modules (813534-B21). Power specifications and	813535-B21

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# **Core Options**

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

**HP Computation** and Graphics Accelerators

HP NVIDIA Quadro K2200 Graphics Accelerator JOG89A HP NVIDIA Quadro K4200 Graphics Accelerator JOG90A

**NOTE:** 1 Graphics Adapter Kit 725576-B21 must be selected per K4200.

HP DL180 Gen9 Graphic Card Adapter Kit

**NOTE:** Must select 2 processor if 2 graphic cards are selected.

NOTE: Must select 800W Gold (redundant)/900W non-redundant power supply when 2 graphic cards are

selected.

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

NOTE: The NVIDIA Quadro modules are supported only on 64-bit versions of Linux and Windows operating systems as well as on Virtual Machine client operating systems. The supported bare metal operating systems are RHEL6, SLES 11 and Windows Server 2012 R2.

NOTE: Please see the HP Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HP Power Advisor is located at: http://www.hp.com/go/hppoweradvisor.

HP Cooling Options HP DL180 Gen9 Redundant Fan FIO Kit

779841-B21

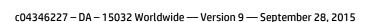
725576-B21

**NOTE:** Upgrades a non-redundant server with one additional hot-plug fan (FIO only).

HP DL180 Gen9 Redundant Fan Kit

725571-B21

**NOTE:** Customers can upgrade to a redundant fan configuration with the purchase of above option kit (contains 2 Fans).



# **Additional Options**

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

Embedded
Management

HP iLO Advanced	
HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21
HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A
HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
HP iLO Essentials	
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 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE
HP Integrated Lights-Out Essentials including 1yr 24x7 Technical Support and Updates E-LTU	E6U62ABE
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	BD777A
HP Integrated Lights-Out Scale-Out 1yr 24x7 Tech Support and Updates Flex Quantity License	BD778A
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** Infrastructure Management Software

# HP OneView Advanced (with HP iLO Advanced)

HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34A
HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y35AAE
HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr	E5Y43A
lic	

## **HP OneView Advanced (without HP iLO Advanced)**

HP OneView w/o iLO including 3yr 24x7 Support 1 Server LTU	P8B24A
HP OneView w/o iLO including 3yr 24x7 Support Flex Quantity E-LTU	P8B26AAE
HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU	P8B31A
HP OneView w/o iLO Adv incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y38A
HP OneView w/o iLO Adv inc 3yr 24x7 Supp Flex Qty E-LTU	E5Y39AAE
HP OneView Media Kit Phys No Lic	E5Y37A
HP Operations Analytics for HP OneView LTU	K8G29A
HP Operations Analytics for HP OneView E-LTU	K8G29AAE

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).

# **Additional Options**

**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.

# **Clusters**

# High Performance HP Cluster Management Utility

HP Insight Cluster Management Utility 1yr 24x7 Flexible License QL803B HP Insight Cluster Management Utility 3yr 24x7 Flexible License **BD476A** 

**NOTE:** These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement.

HP Insight Cluster Management Utility Media

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

**BD477A** 

# **HP PCIe Workload Accelerator Options**

## Value Endurance (VE) PCIe Workload Accelerators

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

HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21
HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763838-B21
HP 1.6TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763836-B21
HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763834-B21

### Light Endurance (LE) PCIe Workload Accelerators

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HP 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21
HP 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775670-B21
HP 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775668-B21
HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775666-B21

**NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14528\_div/14528\_div.html

(Worldwide)

### **HP Security**

**HP 2U Security Bezel Kit** 666988-B21

**NOTE:** Quick Release Ear option kit (P/N 725579-B21) is required for installing security bezel.

HP DL180 Gen9 Thumbscrew Ear FIO Kit 782641-B21

**NOTE:** Thumbscrew ears are available on SFF models only.

HP Quick-release Latch Rack Ears FIO Kit 725579-B21

NOTE: Quick-release Latch ears are available on both SFF and LFF models. For

12LFF Models Quick Release Ears are Mandatory.

NOTE: Quick-release latch ears upgrades front USB from USB 2.0 to USB 3.0- It also supports Security Bezel Kit.

**HP Trusted Platform Module Option** 

488069-B21

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

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

QUICKSpecs (21) 4062-6971 (31) 4062-6971 (41) 4062-6971 (48) 4062-6971 (51) 4062-6971 (61) 4062-6971 (71) 4062-7479

761874-B21

# **Additional Options**

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

ΗP	Storage	
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### **SAS Controllers**

# **HP Smart Array Controllers**

820834-B21
726821-B21
726897-B21
726903-B21
726825-B21
761872-B21

HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller **NOTE:** Includes the HP Smart Storage Battery.

### **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**

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HP DL180 Gen9 8LFF Smart Array Cable Kit	725577-B21
HP DL180 Gen9 8SFF Smart Array Cable Kit	725578-B21
HP DL180 Gen9 8LFF Hot Plug FIO Cable Kit	774868-B21
HP DL180 Gen9 8LFF Non-hot Plug FIO Cable Kit	774869-B21
HP DL180 Gen9 8SFF Hot Plug FIO Cable Kit	774870-B21
HP DL180 Gen9 4LFF Non-hot Plug FIO Cable Kit	776447-B21

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 SmartCache No Media 24x7 Technical Support 1 Svr License	D7S26A
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HP SmartCache No Media 24x7 Technical Support Flexible License	D7S27A
HP SmartCache No Media 24x7 Technical Support Electronic License	D7S27AAE
HP Secure Encryption No Media Flexible License per Drive	D8S84A
HP Secure Encryption No Media E-LTU per Drive	D8S85AAE

## **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 Libraries**

HP MSL2024 0-Drive Tape Library AK379A HP MSL4048 0-Drive Tape Library **AK381A**  SO QUETTORKS 4062-6971 (21) 4062-6971 (31) 4062-6971 (41) 4062-6971 (48) 4062-6971 (51) 4062-6971 (61) 4062-6971 (71) 4062-7479 HP ProLiant DL180 Generation (Gen9)

# **Additional Options**

HP StoreEver LTO-6 Ultrium 6550 SAS External Tape Drive EH9508 HP StoreEver LTO-5 Ultrium 3200 SAS External Tape Drive EH9508 HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive EH9508 HP StoreEver LTO-4 Ultrium 3000 SAS External Tape Drive EH9508 HP StoreEver LTO-4 Ultrium 3200 SAS External Tape Drive EH9508 HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive EH9208 HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive EH9208 HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive EH9408 HP Tape Storage Systems HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit HP StoreEver LTO-5 Ultrium 3200 SAS Tape Drive in 3U Rack-mount El0138 HP StoreEver LTO-5 Ultrium 3200 SAS Tape Drive in 1U Rack-mount El0138 HP StoreEver LTO-5 Ultrium 3200 SAS Tape Drive in 1U Rack-mount Kit Cu.939A HP StoreEver LTO-6 Ultrium 6250 FC Tape Autoloader HP StoreEver MSL6480 Scalable Base Module HP BD3700 Enclosure HP RDX+5000E External Backup System HP StoreFabric SN1100E 1660 Single Port Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 1660 Single Port Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 1660 Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 1660 Single Port Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 1660 Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 1660 Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 1660 Fibre Channel Host Bus Adapter HP StoreFabric SN11000 1660 E-port PCIe Fibre Channel Host Bus Adapter HP			
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# **Additional Options**

	HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A
	HP D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	MOT59A
	HP D6000 w/70 6TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 420TB Bundle	MOT57A
	HP D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A
HP Data Center	HP 11000 G2 Series Racks	
Racks	HP 11648 1075mm Pallet Universal Rack	H6J87A
	HP 11648 1075mm Shock Universal Rack	H6J88A
	HP 11642 1075mm Pallet Universal Rack	H6J65A
	HP 11642 1075mm Shock Universal Rack	H6J66A
	HP 11642 1200mm Pallet Universal Rack	H6J67A
	HP 11642 1200mm Shock Universal Rack	H6J68A
	HP 11636 1075mm Pallet Universal Rack	H6J77A
	HP 11636 1075mm Shock Universal Rack	H6J78A
	HP 11622 G2 1075mm Pallet Universal Rack	H6J83A
	HP 11622 G2 1075mm Shock Universal Rack	H6J84A
	HP 11614 1075mm Shock Universal Rack	H6J82A
	NOTE: Please see the HP 11000 G2 Series Racks QuickSpecs for information on	
	additional racks options and rack specifications.	
	HP Intelligent Series Rack	
	HP 647 1075mm Pallet Intelligent Series Rack	BW911A
	HP 647 1075mm Shock Intelligent Series Rack	BW912A
	HP 647 1200mm Pallet Intelligent Series Rack	BW913A
	HP 647 1200mm Shock Intelligent Series Rack	BW914A
	HP 642 1075mm Pallet Intelligent Series Rack	BW903A
	HP 642 1075mm Shock Intelligent Series Rack	BW904A
	HP 642 1200mm Pallet Intelligent Series Rack	BW907A
	HP 642 1200mm Shock Intelligent Series Rack	BW908A
	HP 636 1075mm Pallet Intelligent Series Rack	BW895A
	HP 636 1075mm Shock Intelligent Series Rack	BW896A
	HP 842 1075mm Pallet Intelligent Series Rack	BW917A
	HP 842 1075mm Shock Intelligent Series Rack	BW918A
	NOTE: Please see the HP Intelligent Series Racks QuickSpecs for information on	
	additional racks options and rack specifications.	
	HP Value Series Rack	
	HP V142 1075mm deep Pallet 100 series Rack	AF046A
	NOTE: Please see the HP Value Series Rack QuickSpecs for information on	
	additional racks options and rack specifications.	
IP Power	HP Basic Power Distribution Unit (bPDU)	
Distribution Unit	HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5M54A
PDUs)	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 ( 12xC13) WW Basic PDU	H5M56A
	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
	HE 7.3KVA 230 VOIL IEC303 32A HIPUL (24XC13/0XC13/HV1E DOSIC FDU	115M1/UA

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

H5M60A

SO QUETCK \$4062-6971 (21) 4062-6971 (31) 4062-6971 (41) 4062-6971 (48) 4062-6971 (51) 4062-6971 (61) 4062-6971 (71) 4062-7479 HP ProLiant DL180 Generation9 (Gen9)

# **Additional Options**

HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU HP 6.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU HP 6.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU HP 6.6kVA 208 Volt L15-30 3-Phase Input (30xC13/6xC19) NA/JP Basic PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) INTL Basic PDU HP 11kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/6xC19) INTL Basic PDU HSM67A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/6xC19) INTL Basic PDU HSM67A HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30xC13/6xC19) INTL Basic PDU HSM67A HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30xC13/6xC19) INTL Basic PDU HSM67A HP 19.9kVA 440 Volt IEC309 30A 3-Phase Input (30xC13/6xC19) INTL Basic PDU HSM67A HP 19.9kVA 440 Volt IEC309 30A 3-Phase Input (30xC13/6xC19) INTL Basic PDU HSX09A HP 2.8kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit Z52663-D71 HP 3.8kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit Z52663-D75 HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit Z52663-B33 HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit Z52663-B34 HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit Z52663-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit Z52663-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit Z52663-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit Z52663-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit Z52663-B34 HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit Z52663-B34 HP 14.4kVA 40A Volt Teven Phase Input (12xC13) WW Monitored PDU D9N45A HP 17.3kVA 208 Volt L6-30 Input (12xC13) WW Monitored PDU D9N45A HP 3.6kVA 208 Volt L6-30 Input (12xC13) WW Monitored PDU D9N45A HP 3.6kVA 208 Volt L6-30 Input (12xC13) WW Monitored PDU D9N45A HP 3.6	HP 11kVA 230 Volt IEC309 63A Input (30xC13/6xC19) INTL Basic PDU	H5M71A
PDU	HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75A
Basic PDU         H5 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU         H5M62A           HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU         H5M72A           HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU         H5M73A           HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU         H5M67A           HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Cutlet) NA Basic PDU         H3X08A           HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer         H3X08A           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 40A 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 9.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit         AF513A           HP 1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit         AF513A           HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit         AF513A           HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit         AF513A           HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit         AF518A           NOTE: To learn more about HP Basic Power Distribution Units	•	H5M63A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU H5M72A HP 11kVA 400 Volt IEC309 36A 3-Phase Input (36xC13/6xC19) INTL Basic PDU H5M67A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) INTL Basic PDU H5M67A HP 119.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU H3X08A HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer H3X09A HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit 252663-D71 HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit 252663-D74 HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit 252663-D75 HP 7.3kVA 32A High Voltage NA/JP Core Modular Power Distribution Unit 252663-D75 HP 7.3kVA 32A High Voltage NA/JP 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 34F512A HP 11.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 34F513A ND 11.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit 34F519A ND 11.5kVA 48A Three Phase NA/JP Modular Power Distribution Unit 34F518A ND 11.5kVA 48A Three Phase NA/JP Modular Power Distribution Unit 34F518A ND 11.5kVA 48A Three Phase INTL Core Modular Power Distribution Unit 34F518A ND 11.5kVA 48A Three Phase NA/JP Modular Power Distribution Unit 34F518A ND 11.5kVA 200 Volt LE-30 Input (12xC13) NA/JP Monitored PDU 35VA 200 Volt Detachable Col Input (12xC13) WM Monitored PDU 36VA 200 Volt Detachable Col Input (12xC13) WM Monitored PDU 36VA 200 Volt LE-30 Input (12xC13) NA/JP Monitored PDU 36VA 200 Volt LE-30 32A Input (20xC13/4xC19) NA/JP Monitored PDU 36VA 200 Volt LE-30 32A Input (20xC13/4xC19) NA/JP Monitored PDU 36VA 200 Volt LE-30 32A Input (20xC13/4xC19) NA/JP Monitored PDU 36VA 200 Volt LE-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU 36VA 200 Volt LE-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU 36VA 200 Volt L	•	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 (36xC13/6xC19) NA Basic PDU H3M08A 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 Core Modular Power Distribution Unit 252663-D71 HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit 252663-D71 HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit 252663-D75 HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit 252663-D75 HP 7.3kVA 40A 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 AF512A HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 11.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 11.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 12.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 12.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 12.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A HP 12.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF513A NP 12 NV	HP 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU	H5M62A
HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU H3X08A HP 19,8VA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU H3X09A HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer H2,8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit HP 4,9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit HP 8,3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit H7 3,8kVA 32A High Voltage INTL Core Modular Power Distribution Unit H7 3,8kVA 40A High Voltage INTL Core Modular Power Distribution Unit H9 2,8kVA 24A Three Phase INTL Core Modular Power Distribution Unit H9 2,8kVA 24A Three Phase NA/JP Modular Power Distribution Unit H9 1,1kVA 16A Three Phase INTL Modular Power Distribution Unit H9 1,1kVA 16A Three Phase NA/JP Modular Power Distribution Unit H9 1,1kVA 40A Three Phase NA/JP Modular Power Distribution Unit H9 1,1kVA 40A Three Phase NA/JP Modular Power Distribution Unit H9 1,1kVA 40A Three Phase NA/JP Modular Power Distribution Unit H9 2,2kVA 32A Three Phase NA/JP Modular Power Distribution Unit H9 2,2kVA 32A Three Phase NA/JP Modular Power Distribution Unit H9 2,2kVA 32A Three Phase NA/JP Modular Power Distribution Unit H9 2,2kVA 32A Three Phase NA/JP Modular Power Distribution Unit H9 2,2kVA 32A Three Phase NA/JP Modular Power Distribution Unit H9 2,2kVA 32A Three Phase NA/JP Modular Power Distribution Unit H9 2,2kVA 32A Three Phase NA/JP Modular Power Distribution Unit H9 3,2kVA 20A 20A Volt Detachable Col Input (12xC13) WM Monitored PDU D9N43A H9 3,2kVA 20A Volt Detachable C20 Input (12xC13) WM Monitored PDU D9N44A H9 3,2kVA 20B Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N44A H9 3,2kVA 20B Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N44A H9 4,3kVA 20B Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N44A H9 4,3kVA 20B Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N45A HP 1,3kVA 20B Volt L6-30 Input (12xC13) MA/JP Monitored PDU D9N45A H9 1,3kVA 20B Volt L6-30 Input (12xC13) MA/JP Monitored PDU D9N55A Monitored PDU H9 1,4kVA 20B Volt L6-30	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU	H5M72A
HP 19.9kVA 480 Volt IEC309 30A 3-Phase input (30 Outlet) NA Basic PDU HP 3.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit P 2.8kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit P 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit P 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit P 5.2663-D74 PP 5.3kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit P 5.2663-D75 PP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit P 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit P 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit P 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit AF513A HP 9.6kVA 24A 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 AF513A HP 17.3kVA 48A 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 A.9kVA 208 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 D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) INTL Monitored PDU D9N45A HP 7.3kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU D9N45A HP 7.3kVA 208 Volt L6-30 Input (20xC13/4xC19) INTL Monitored PDU D9N45A HP 5.7kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N52A Monitored PDU HP 5.7kVA 208 Volt L21-20 3-Phase Input (20xC13/3xC19) INTL Monitored PDU D9N5A Monitored PDU HP 5.6kVA 208 Volt L6309 32A Input (20xC13/3xC19) INTL Monitored PDU D9N5A Monitored PDU HP 11kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU D9N5A D9N5A MONITOR D9N5A D9N5A D9N5A D9N5A D9N5A D9N5A D	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU	H5M73A
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer HP 3.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit 452663-071 HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit 452663-075 HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit 452663-075 HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit 452663-075 HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit 475124 HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit 475134 HP 11kVA 40A Three Phase INTL Modular Power Distribution Unit 475134 HP 11kVA 40A Three Phase NA/JP Modular Power Distribution Unit 475134 HP 12kVA 32A Three Phase INTL Core Modular Power Distribution Unit 47514 HP 12kVA 32A Three Phase NA/JP Modular Power Distribution Unit 47514 HP 12kVA 32A Three Phase INTL Core Modular Power Distribution Unit 47514 HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit 47514 HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit 47514 HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit 47514 HP 22kVA 32A Three Phase Input (12xC13) Will Monitored PDU 479.3kVA 200-240 Volt Detachable C20 Input (12xC13) WM Monitored PDU 479.3kVA 200-240 Volt Detachable C20 Input (12xC13) WM Monitored PDU 479.3kVA 200-240 Volt Detachable C20 Input (12xC13) WM Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30 Input (12xC13) NA/JP Monitored PDU 479.3kVA 200 Volt L6-30	HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67A
HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit  P3.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit  P7.3kVA 32A High Voltage NA/JP Core Modular Power Distribution Unit  P7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit  P9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit  P9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit  P9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P1.1kVA 16A Three Phase NA/JP Modular Power Distribution Unit  P2.1kVA 12A VA 12A Three Phase NA/JP Modular Power Distribution Unit  P3.1kVA 12A VA 12	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 HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit HP 1.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit HP 1.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit HP 1.7.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit HP 1.7.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit HP 2.2kVA 32A Three Phase NA/JP Modular Power Distribution Unit HP 2.2kVA 32A Three Phase NA/JP Modular Power Distribution Unit HP 2.2kVA 32A Three Phase INTL Core Modular Power Distribution Unit HP 2.2kVA 32A Three Phase INTL Core Modular Power Distribution Unit HP 2.2kVA 32A Three Phase INTL Core Modular Power Distribution Unit HP 2.2kVA 32A Three Phase INTL Core Modular Power Distribution Unit HP website at http://www.hp.com/go/pdu. HP Monitored Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu. HP Monitored Power Distribution Units (bPDU) HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N43A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU D9N46A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N45A HP 3.6kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (2xC13) NA/JP Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (2xC13) NA/JP Monitored PDU D9N45A HP 7.3kVA 230 Volt IEC309 32A Input (2xC13/4xC19) INTL Monitored PDU D9N46A HP 8.6kVA 208 Volt L5-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N46A D9N52A Monitored PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N52A Monitored PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (12xC13/12xC19) NA Monitored D9N54A HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N54A H		H3X09A
HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit  HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit  HP 9.2kVA 40A 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  HP 11kVA 16A Three Phase NA/JP Modular Power Distribution Unit  HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit  HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit  HP 22kVA 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/go/pdu.  HP Monitored Power Distribution Units (mPDU)  HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU  D9N43A  HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU  D9N44A  HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU  D9N44A  HP 3.6kVA 200-240 Volt Detachable 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  D9N45A  HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (18xC13/3xC19) NA/JP Monitored PDU  D9N47A  HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 8.6kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (12xC13) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (12xC13) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13) INTL Monitored PDU  D9N52A	HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit	252663-D71
HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit  HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit  HP 9.2kVA 40A 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  HP 11kVA 16A Three Phase NA/JP Modular Power Distribution Unit  HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit  HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit  HP 22kVA 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/go/pdu.  HP Monitored Power Distribution Units (mPDU)  HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU  D9N43A  HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU  D9N44A  HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU  D9N44A  HP 3.6kVA 200-240 Volt Detachable 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  D9N45A  HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (18xC13/3xC19) NA/JP Monitored PDU  D9N47A  HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 8.6kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (12xC13) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (12xC13) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13) INTL Monitored PDU  D9N52A	HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D74
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 4F513A HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit 4F513A HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit 4F513A HP 14.4kVA 40A Three Phase INTL Modular Power Distribution Unit 4F513A HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit 4F513A HP 17.3kVA 48A Three Phase INTL Core Modular Power Distribution Unit 4F511A HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit 4F511B NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu.  HP Monitored Power Distribution Units (mPDU) HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N43A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU 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 G9205A HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU G9206A HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU D9N47A HP 8.6kVA 208 Volt L5-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N47A HP 8.6kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N53A Monitored PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N53A Monitored PDU HP 11kVA 400 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU D9N5A HP 1.3kVA 230 Volt IEC309 32A Input (32xC13/3xC19) NA/JP Monitored PDU D9N5A HP 1.6kVA 208 Volt C58265C Input (30xC13/3xC19) INTL Monitored PDU D9N5A HP 1.6kVA 208 Volt C58265C Input (30xC13/3xC19) INTL Monitored PDU D9N5A HP 1.6kVA 208 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU D9N5A HP 1.6kVA 208 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU D9N5A HP 1.6kVA 208 Volt IEC309 32A Input (32xC13/3xC19) INTL Monitored PDU D9N5A HP 1.6kVA 208 Volt IEC309 32A Input (32xC13/3xC		252663-D75
HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit  HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit  HP 11.4kVA 16A Three Phase INTL Modular Power Distribution Unit  HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit  HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit  HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit  HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit  HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit  HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit  HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit  HP Website at http://www.hp.com/go/pdu.  HP Monitored Power Distribution Units (mPDU)  HP 2.8kVA 120 Volt L5-30 Input (12xKEMA 5-20R)NA/JP Monitored PDU  D9N43A  HP 3.6kVA 200-240 Volt Detachable 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  D9N45A  HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) NA/JP Monitored PDU  D9N47A  HP 5.7kVA 208 Volt L6-30 Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 5.7kVA 208 Volt L2-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  D9N52A  Monitored PDU  HP 8.6kVA 208 Volt L2-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 8.6kVA 208 Volt L2-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 1.4kVA 208 Volt CS8265C Input (30xC13/3xC19) INTL Monitored PDU  D9N55A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (12xC13/12xC19) NA Monitored PDU  HP 1.4kVA 208 Volt IEC309 32A Input (32xC13/3xC19) INTL Monitored PDU  HP 1.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA/JP Monitor		252663-B33
HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit  AF513A HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF519A HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit AF511A HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit AF511A 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 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N43A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WM Monitored PDU D9N44A HP 3.6kVA 200-240 Volt L6-30 Input (12xC13) NA/JP 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 D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) INTL Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) INTL Monitored PDU D9N45A HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU D9N45A HP 7.3kVA 208 Volt L6-30 Input (12xC13) INTL Monitored PDU D9N45A HP 5.7kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU D9N51A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N51A HP 5.7kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored D9N55A PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored D9N55A PDU HP 8.3kVA 208 Volt EC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored D9N55A PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored D9N55A PDU HP 14.4kVA 208 Volt C58265C Input (30xC13/3xC19) INTL Monitored D9N57A PDU HP 14.6kVA 208 Volt EC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N57A PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N57A PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N57A PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N54A		252663-B34
HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit AF511A HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit AF511A HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit AF518A NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu.  HP Monitored Power Distribution Units (mPDU) HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N43A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU D9N44A HP 3.6kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU G9205A HP 7.3kVA 208 Volt IEC309 32A Input (12xC13) INTL Monitored PDU G9206A HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU D9N47A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N51A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU HP 8.6kVA 208 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU HP 14.4kVA 208 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU HP 14.4kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU 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 (12xC13/12xC19) NA Monitored P	HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit	AF512A
HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit HP 22kVA 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/go/pdu. HP Monitored Power Distribution Units (mPDU) HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N43A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU 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 4.9kVA 208 Volt L6-30 Input (12xC13) INTL Monitored PDU G9Z05A HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU D9N47A HP 7.3kVA 230 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU D9N47A HP 7.3kVA 230 Volt LEC309 32A Input (20xC13/4xC19) INTL Monitored PDU D9N47A HP 7.3kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N51A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU HP 8.6kVA 208 Volt L21-20 3-Phase Input (20xC13/4xC19) INTL Monitored PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP Monitored PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU HP 11kVA 400 Volt IEC309 32A Input (30xC13/3xC19) INTL Monitored PDU HP 11kVA 400 Volt IEC309 36A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU HP 14.4kVA 208 Volt C58365C 3-Phase Input (30xC13/3xC19) INTL Monitored PDU HP 14.4kVA 208 Volt C58365C 3-Phase Input (30xC13/3xC19) NA Monitored PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored D9N57A DU HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (24xC13/12xC19) NA Monitored D9N54A	HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit	AF513A
HP 22kVA 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/go/pdu.  HP Monitored Power Distribution Units (mPDU)  HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU  HP 3.6kVA 200-240 Volt Detachable 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  G9Z05A  HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU  G9Z06A  HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 5.7kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  D9N51A  HP 8.6kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19) NA Monitored PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19) NA Monitored PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  D9N57A  PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  D9N54A	HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit	AF519A
NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at http://www.hp.com/go/pdu.  HP Monitored Power Distribution Units (mPDU)  HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU  D9N43A  HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU  D9N44A  HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU  D9N45A  HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU  G9Z05A  HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU  G9Z06A  HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU  G9Z06A  HP 4.9kVA 208 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (18xC13/3xC19) NA/JP Monitored PDU  D9N51A  HP 5.7kVA 208 Volt L15-30 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP  D9N52A  Monitored PDU  HP 8.6kVA 208 Volt L21-20 3-Phase Input (20xC13/3xC19) INTL Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19) INTL Monitored  D9N53A  Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored  D9N55A  PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU  D9N57A  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (30xC13/3xC19) INTL Monitored PDU  D9N57A  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (30xC13/3xC19) INTL Monitored PDU  D9N57A  PDU  HP 14.4kVA 208 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU  D9N56A  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  D9N56A  PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  D9N56A  PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (24xC13/3xC19) NA/JP Monitored  D9N56A	HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit	AF511A
the HP website at http://www.hp.com/go/pdu.  HP Monitored Power Distribution Units (mPDU)  HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N43A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU D9N46A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N44A HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU G9Z05A HP 4.9kVA 208 Volt L6-30 Input (12xC13) INJH Monitored PDU G9Z06A HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INJH Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INJH Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INJH Monitored PDU D9N47A HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N51A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N52A Monitored PDU D9N52A Monitored PDU D9N53A Monitored PDU D9N53A Monitored PDU D9N53A Monitored PDU D9N55A PDU PD	HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit	AF518A
HP Monitored Power Distribution Units (mPDU)  HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU  D9N43A  HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU  D9N44A  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  D9N45A  HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU  G9Z05A  HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU  G9Z06A  HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) INTL Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N48A  HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/4xC19) INTL Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored  PDU  HP 7.3kVA 230 Volt IEC309 32A Input (30xC13/3xC19) INTL Monitored PDU  D9N55A  HP 7.3kVA 208 Volt C58265C Input (30xC13/3xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  D9N51A  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  D9N51A	NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit	
HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N43A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU D9N46A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N45A HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU G9Z05A HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU G9Z06A HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU D9N51A HP 5.7kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N51A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP Monitored PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP D9N53A Monitored PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored D9N55A PDU HP 7.3kVA 208 Volt CS8265C Input (30xC13/3xC19) INA Monitored PDU D9N50A HP 11kVA 400 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU D9N50A HP 11kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N57A PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N55A PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N55A PDU HP 17.3kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19) NA Monitored D9N55A PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N55A PDU HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored D9N61A PDU HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (24xC13/3xC19) NA/JP Monitored D9N62A PDU	the HP website at http://www.hp.com/go/pdu.	
HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU  D9N44A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU  D9N45A HP 4.9kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU  D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU  G9Z05A HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU  D9N47A HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU  D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N48A HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  D9N51A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU  HP 8.3kVA 208 Volt C58265C Input (30xC13/3xC19) NA Monitored PDU  D9N55A PDU  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  D9N50A HP 7.3kVA 200 Volt IEC309 36A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU  D9N50A HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU  D9N57A PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU  D9N58A D9N59A HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU  D9N59A PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU  D9N59A PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (24xC13/12xC19) NA Monitored PDU  D9N59A	HP Monitored Power Distribution Units (mPDU)	
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HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU G9Z05A HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU G9Z06A HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU D9N47A HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU D9N48A HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU D9N51A HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP Monitored PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP Monitored PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU D9N50A HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU HP 14.4kVA 208 Volt CS8365C 3-Phase Input (30xC13/3xC19) NA Monitored PDU D9N57A PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU 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 HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored PDU HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored PDU		D9N45A
HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU  HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU  D9N47A  HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  D9N48A  HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  D9N51A  HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored  PDU  HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU  D9N59A  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (30xC13/3xC19) NA Monitored PDU  D9N57A  PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored  PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored  PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  PDU  HP 17.3kVA 208 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  PDU  D9N54A	·	G9Z05A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored  PDU  HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU  D9N49A  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU  D9N57A  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (30xC13/12xC19) NA Monitored PDU  D9N58A  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU  D9N61A  PDU  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 (12xC13/12xC19) NA Monitored  PDU  D9N62A  PDU	HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU	G9Z06A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU  HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored  PDU  HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU  D9N49A  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU  D9N57A  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (30xC13/12xC19) NA Monitored PDU  D9N58A  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU  D9N61A  PDU  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 (12xC13/12xC19) NA Monitored  PDU  D9N62A  PDU	· ·	D9N47A
HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU  HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored  PDU  HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU  D9N49A  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (30xC13/3xC19) NA Monitored PDU  D9N57A  PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored  PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored  PDU  HP 17.3kVA 208 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  D9N54A	· ·	D9N48A
HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored  PDU  HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU  D9N49A  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19) NA Monitored PDU  D9N58A  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored  PDU  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 (12xC13/12xC19) NA Monitored  PDU  HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored  D9N54A		D9N51A
HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP  Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored  PDU  HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU  D9N49A  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU  D9N58A  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored  PDU  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 Monitored  D9N62A  PDU	HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP	D9N52A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU D9N49A HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU D9N50A HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU D9N58A HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU 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 D9N54A	HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP	D9N53A
HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU  HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  D9N50A  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored  PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU  D9N58A  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored  PDU  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  D9N54A	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored	D9N55A
HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU  HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU  HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU  HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU  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  D9N54A		DONAGA
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU D9N58A HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU 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 D9N54A		
PDU HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU D9N58A HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU 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 D9N54A	•	
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU 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 D9N54A	PDU	
PDU 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 D9N54A	·	
PDU HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored D9N54A	·	D9N61A
·	·	D9N62A
	·	D9N54A

SO QUETCK \$4062-6971 (21) 4062-6971 (31) 4062-6971 (41) 4062-6971 (48) 4062-6971 (51) 4062-6971 (61) 4062-6971 (71) 4062-7479 HP ProLiant DL180 Generation9 (Gen9)

# **Additional Options**

HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP	D9N59A
Monitored PDU	
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Watertight Input (12xC13/12xC19) NA/JP Monitored PDU	G9Z07A
HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU	D9N63A
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N56A
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU	D9N60A
HP 22kVA 400 Volt IEC309 32A 3-Phase Watertight Input (12xC13/12xC19) INTL Monitored PDU	G9Z08A
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
<b>NOTE:</b> Please see the HP Monitored Power Distribution Units QuickSpecs for information on additional options and product specifications.	
HP Intelligent Power Distribution Units (iPDU)	
HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution 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	on AF900A
HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distributio Unit	n AF901A
HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Un	nit AF525A
HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Un	
HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Un	
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	AF537A
Distribution Unit HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Power	AF538A
Distribution Unit	AFJJOA
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
<b>NOTE:</b> 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 PD	
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	
HP 8.6kVA 208 Volt L21-30 3 Phase Input (20xC13/3xC19/1x NEMA 5-20) NA/JF	
Managed PDU	

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# **Additional Options**

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 H8B56A

NOTE: Please see the HP Managed Power Distribution Units (maPDU) for information on additional options and product specifications.

**NOTE:** To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page.

**HP Rack Mount** Consoles, KVM Switches, and Keyboards

HP Location Discovery Services	
HP Location Discovery Services LCD8500 Kit	TL052A
NOTE: Please see the HP Location Discovery Services QuickSpecs for information	
on additional options and product specifications.	
HP Rack Mount Consoles	
HP LCD8500 1U US Rackmount Console Kit	AF630A
HP LCD8500 1U UK Rackmount Console Kit	AF631A
HP LCD8500 1U DE Rackmount Console Kit	AF632A
HP LCD8500 1U FR Rackmount Console Kit	AF633A
HP LCD8500 1U JP Rackmount Console Kit	AF642A
HP LCD8500 1U RU Rackmount Console Kit	AF643A
HP LCD8500 1U INTL Rackmount Console Kit	AF644A
HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
HP KVM Switches	
HP 0x2x16 G3 KVM Console Switch	AF652A
HP TAA 0x2x16 G3 KVM Console Switch	AF653A
HP USB Remote Access Key for G3 KVM Console Switches	AF650A
HP KVM Console USB Interface Adapter	AF628A
HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
HP 1x4 USB/PS2 KVM Console Switch	AF611A
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
<b>NOTE:</b> To learn more, please visit the HP KVM Switches web page.	
HP USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP 1U INT Rackmount Keyboard with USB	AG086A
HP 1U US Rackmount Keyboard with USB	AG072A
<b>NOTE:</b> Please see the HP USB Keyboard and Mouse QuickSpecs for information on	
additional options and product specifications.	
Rail Kits	
HP 2U Small Form Factor Easy Install Rail Kit	733660-B21
<b>NOTE:</b> This applies for both LFF & SFF models and it does not include cable	
management arm.	722664 D21
HP 2U Cable Management Arm for Easy Install Rail Kit	733664-B21
HP Other Options HP Rack LED Light Kit	DIMOSOA
HP Kit LCD 1.83m Latch Display Port Cable	BW939A G7T29A
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# **Additional Options**

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-	HP DirectFlow Three Phase UPS	
Power Systems	Power Unit (1U UPS)	
(UPS)	HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
	HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
	Input/Output Module Options for 1U UPS	.=
	HP 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309	AF488A
	Input/Output Module  HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309	AF489A
	Input/Output Module	AF409A
	HP 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated	AF490A
	Input/Output Module	711 13071
	HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output	AF491A
	Module	
	HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output	AF492A
	Module	
	HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309	G9Y76A
	Input/Output Module	
	Power Unit (2U UPS)  HP R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
	Input/Output Module Options for 2U UPS	AF4/3A
	HP 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309	AF483A
	Input/Output Module	אנטסא
	HP 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated	AF485A
	Input/Output Module	
	HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	AF486A
	Module	
	HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
	HP 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	D9Q02A
	Module	DJQUZA
	HP 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309	AF484A
	Input/Output Module	
	<b>NOTE:</b> All Input/Output Modules support dual output outlets except the AF484A.	
	Battery Pack Options	
	HP DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
	HP DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
	HP WW DirectFlow Secondary Battery Cable	AF497A
	<b>NOTE:</b> Please see the HP DirectFlow Three Phase Uninterruptible Power System QuickSpecs for information on additional options and product specifications.	
	HP Tower UPS	
	HP T750 G4 UPS Models	
	HP T750 G4 NA/JP Uninterruptible Power System	J2P85A
	HP T750 G4 INTL Uninterruptible Power System	J2P88A
1	HP T1000 G4 UPS Models	
	HP T1000 G4 NA/JP Uninterruptible Power System	J2P86A
	HP T1000 G4 INTL Uninterruptible Power System	J2P89A
	HP T1500 G4 UPS Models	
	HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A
	HP T1500 G4 INTL Uninterruptible Power System	J2P90A
	HP Rack/Tower UPS	
	HP R/T2200 G4 UPS Models	
	UD D/T2200 C4 NA/ID Uninterruptible Dower System	IDDOOA

HP R/T2200 G4 NA/JP Uninterruptible Power System

J2R00A

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# **Additional Options**

**HP USB and SD Options** 

**HP Care Pack Services** 

HP R/T3000 G4 UPS Models	
HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
HP R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
R1500 G4 Models	
HP R1500 G4 NA Uninterruptible Power System	J2Q99A
HP R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
HP R1500 G4 INTL Uninterruptible Power System	J2R03A
R7000 Uninterruptible Power System (UPS)	
HP R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
HP R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
R5000 Uninterruptible Power System (UPS)	
HP R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
HP R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
HP UPS Options	_
HP R/T2200 G4 Extended Runtime Module	J2R09A
HP R/T3000 G4 Extended Runtime Module	J2R10A
HP 2U Rack/Tower UPS Shipping Kit	L4Q11A
NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS)	
web page.	
HP Flash Media Kits for USB Drives	
HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21
HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
Foundation Care	
HP 3 year 24x7 DL180 Gen9 Foundation Care Service	U7AT3E
HP 3 year 24x7 with Defective Media Retention DL180 Gen9 Foundation Care	U7AT4E
Service	
HP 3 year 24x7 with Comprehensive Defective Material Retention DL180 Gen9	U7AT5E
Foundation Care Service	
Proactive Care	
HP 3 year 24x7 DL180 Gen9 Proactive Care Service	U7AT6E
HP 3 year 24x7 with Defective Media Retention DL180 Gen9 Proactive Care Service	U7AT7E
HP 3 year 24x7 with Comprehensive Defective Material Retention DL180 Gen9	U7AT8E
Proactive Care Service	
Installation & Start-up Services	
HP Installation ProLiant DL180/DL380e Service	U6E81E

HP Startup ProLiant DL180/DL380e Service

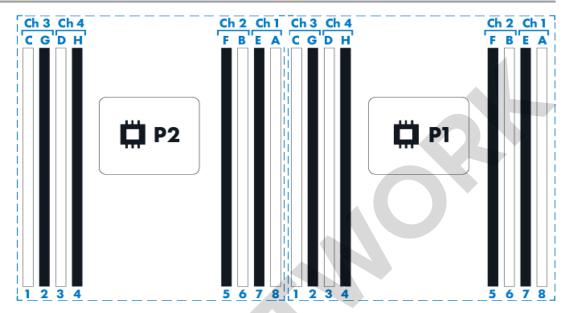
U6E83E

Memory

Architecture

Memory Subsystem Each Intel® Xeon® E5-2600v3 family processor socket contains four memory channels per installed processor with two DIMMs per channel for a total of eight (8) DIMMs or a grand total of sixteen (16) 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.
- Place the DIMMs with the highest number of ranks in the white slot when mixing DIMMs of different ranks on the same channel.
- Do not mix RDIMMs or LRDIMMs.
- Quad rank RDIMMs are not supported in HP ProLiant DL180 Gen9 servers.
- Quad rank LRDIMMs are capable of up to two DIMMs per channel.
- DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the memory type and number of installed processors.
- 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]	Registered DIMMs (RDIMMs) Load Re (LRDII						
DIMM Rank	Single	Rank	ank Dual Rank				Quad Rank
DIMM Capacity	4GB	80	Β	16GB	32GB	16GB	32GB

SOQUITORK 54062-6971 (21) 4062-6971 (31) 4062-6971 (41) 4062-6971 (48) 4062-6971 (51) 4062-6971 (61) 4062-6971 (71) 4062-7479 HP ProLiant DL180 Generation (Geng)

# Memory

DIMM Native Speed (MT/s)	2133						
Voltage	Std Voltage 1.2V						
SLOTS THAT CAN BE POPULATED	LOTS THAT CAN BE						
16 slot servers	16						
MAXIMUM CAPACITY (GB)							
	64	128	256	512	256	512	
1 DIMM Per Channel			2133				
2 DIMM Per Channel			2133				
3 DIMM Per Channel		1600			18	366	

# **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 #	Slot # population order		
Chnl 3	1_	С	1	С		
	2	G	2	G		
		CPU 1		CPU 2		
	Slot #	population order	Slot #	population order		
Chnl 4	3	D	3	D		
	4	Н	4	Н		
		CPU 1		CPU 2		
	Slot #	CPU 1 population order	Slot #	<b>CPU 2</b> population order		
Chnl 2	Slot #	1	Slot #			
Chnl 2		1				
Chnl 2	5	population order F	5	population order F B		
Chnl 2	5	population order F B	5 6	population order F		
Chnl 2	5	population order  F  B  CPU 1	5 6	population order  F  B  CPU 2		

# Memory

## **Memory Speed by Processor Model**

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

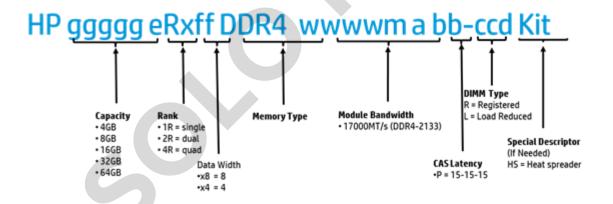
Standard and **Maximum Memory** Capacity (Preconfigured Models)

Pre-Configured Models		Optional Memory	Standard Memory Replaced with Optional Memory
E5-2603v3, E5-2609v3,	8GB (1x8GB)	488GB (15x32GB, 1x8GB)	512GB (16x32GB)
E5-2623v3,	16GB (2x8GB)	464GB (14x32GB, 2x8GB)	512GB (16x32GB)
E5-2630v3,	32GB (2x16GB)	480GB (14x32GB, 2x16GB)	512GB (16x32GB)

## 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



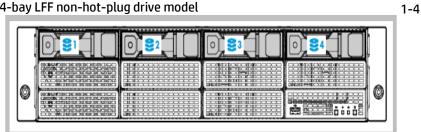
1-8

1-12

1-8

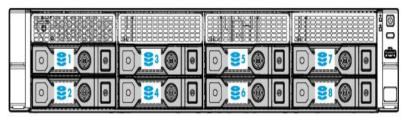
# Storage

## 4-bay LFF non-hot-plug drive model



4 x LFF SATA Non-Hot Pluggable Hard Drive Bays

## 8-bay LFF hot-plug drive model



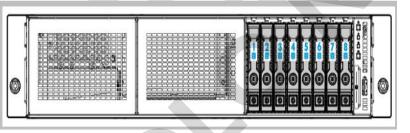
8 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays

# 12-bay LFF hot-plug drive model



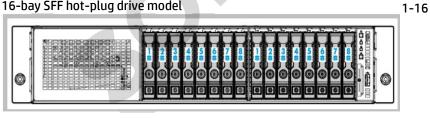
12 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive **Bays** 

# 8-bay SFF hot-plug drive model



8 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays

# 16-bay SFF hot-plug drive model



16 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays

# **Technical Specifications**

**System Unit** 

**Dimensions** (with bezel)

SFF Drives: 3.44 x 17.54 x 23.9 in (8.75 x 44.55 x 60.7cm) LFF Drives: 3.44 x 17.54 x 23.9 in (8.75 x 44.55 x 60.7 cm)

Weight (approximate) Maximum: 47/6 lb (21.59 kg) (all hard drives:

front + rear. full power supply, and

processor installed)

Minimum: 36.58 lb (16.59 kg)

(one SFF hard drive, single power supply, and processor installed. HDD not installed)

Input Requirements Rated Line

100 to 240 VAC

Voltage

Rated Input For 550W Power Supply: Current 6.7 A (at 100 VAC)

3.3 A (at 200 VAC)

Rated Input 47 to 63 Hz Frequency

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: http://www.hp.com/go/proliant-energy-efficient or http://www.hp.com/go/hppoweradvisor - Click on the system of interest. Example: DL180 Gen9- Follow the instructions of the next screens.

**Power Supply** Output

Rated Steady-For 550 W Power Supply: **State Power** 

550 W (at 100 VAC).

550 W (at 200 VAC),

Maximum Peak Power

For 550 W Power Supply: 550 W (at 100 VAC). 550 W (at 200 VAC).

**System Inlet** Temperature Standard

10° to 35°C (50° to 95°F) at sea level with an altitude derating of Operating Support 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 For approved hardware configurations, the supported system Operating Support 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:

# **Technical Specifications**

## http://www.hp.com/servers/ashrae

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

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

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

**NOTE:** Supports A3 and A4 extended ambience.

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

(36°F/hr).

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

dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative

humidity.

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

wet bulb temperature, non-condensing.

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

number of options installed. Maximum allowable altitude

change rate is 457 m/min (1500 ft/min).

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

457 m/min (1500 ft/min).

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

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

ISO 9296 (ECMA 109).

Idle

L WAd Entry: 5.4 B

> Base: 5.5 B Storage: 6.3 B

Energy Star: 5.5 B

L pAm Entry: 39 dBA

> Base: 39 dBA Storage: 46 dBA Energy Star: 38 dBA

Operating

L WAd Entry: 5.5 B

> Base: 5.6 B Storage: 6.3 B Energy Star: 5.5 B

L pAm Entry: 40 dBA

> Base: 40 dBA Storage: 46 dBA Energy Star: 38 dBA

**NOTE:** The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

# **Technical Specifications**

**Emissions** Classification (EMC)

FCC Rating Class A

Normative CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; Standards CNS14336-1; CNS13438; GB4943; GB9254; EN 61000-3-2; EN

61000-3-3; EN 60950-1; IEC 60950-1

**NOTE:** Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

**NOTE:** The listed sound levels apply to standard shipping configurations. Additional

options may result in increased sound levels.

**HP Dynamic Smart** Arrav B140i Controller

Number of PCI links

Four

**PCI link rate** 

4 Gb/s

Storage protocol SATA

support

SAS/SATA peak

6 Gb/s

data transfer

rate

**Number of** 

10 links

SAS/SATA links

SAS/SATA

2x4 connectors; 2x1 connectors

connectivity

**Expander support** No

**Drives supported** Up to 10 Internal Drives

(max)

**RAID** support

0, 1, 10, 5 SATA

Software

HP SSA, SMH, SIM

management

Warranty

Server warranty

**HP Secure** Encryption

Not Supported

license **HP SmartCache** 

Not Supported

License

**HP Smart Storage** Supported

Administrator

**HP Embedded Dual Network** Port 361i Adapter

Interface

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

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** 

Method

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

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

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

10Base-T (Full-

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

# **Technical Specifications**

100Base-TX (Half-

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

100Base-TX (Full-

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

1000Base-TX (Half

and Full-Duplex) 1000Mb/s per port, 4000 Mb/s combined

**Connector** Two RJ-45

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

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

**Environment**friendly **Products and Approach** 

End-of-life Management and Recycling

Hewlett-Packard 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.

# Summary of Changes

Date	Version History	Action	Description of Change
28-Sep-2015	From Version 8 to 9	Added	Added new 6Gb SATA Solid State Drives.
			A 14 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
			Added new HP OneView management software.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 7 to 8	Added	New Solid State Drives offering was added to Core Options.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
1-Jun-2015	From Version 6 to 7	Added	New Hard Drives offering.
			New HP OneView licenses added to HP Converged Infrastructure Management Software.
			New RDX+ external backup options were added.
		Changed	Maximum Internal Storage was revised.
			Core options and Additional Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
30-Mar-2015	From Version 5 to 6	Added	New Hard Drives offering.
			Optional Software added to HP Storage Controllers.
		Changed	HP Memory, HP Power Supplies, HP Storage Controllers, and HP Disk Storage Systems were revised.
9-Feb-2015	From Version 4 to 5	Added	Added Network controller, new HP Drives, and new G4 UPS models.
		Changed	HP Drives, HP Computation and Graphics Accelerators, HP Tape Backup, HP Disk Backup, HP Rack Mount Consoles, KVM Switches, and Keyboards, HP Uninterruptible Power Systems (UPS), HP Networking, and HP Power Distribution Units (PDUs) sections were revised.
1-Dec-2014	From Version 3 to 4	Changed	Changes made throughout the entire QuickSpecs.
13-0ct-2014	From Version 2 to 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section. HP PCIe Workload Accelerator Options, HP USB and SD options were added to the Additional Options section.
		Changed	Standard Features, Optional Features, Configuration Information - Factory Integrated Models, and Memory sections were revised. Warranty was revised in Standard Features section.
19-Sep-2014	From Version 1 to 2	Changed	Changes made throughout the entire QuickSpecs.



# **Summary of Changes**

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