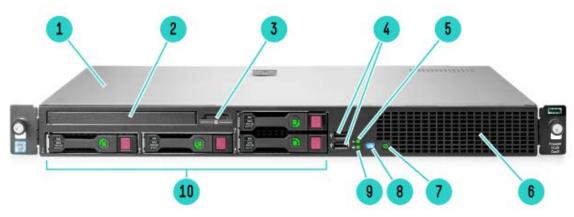


Overview

HPE ProLiant DL20 Generation9 (Gen9)

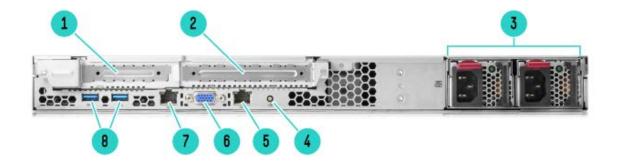
The dense and compact HPE ProLiant DL20 Gen9 Server powered by Intel Pentium, Core i3 and E3-1200v5 processors provides a unique blend of enterprise class capabilities & value. It offers outstanding configuration flexibility to cater to a wide variety of business requirements at an affordable price point.



Front View

- 1 Access Panel
- 3 Serial number/iLO information pull tab
- 5 Health LED
- 7 Power On/Standby button and system power LED button
- 9 NIC status LED

- 2 Optical Drive
- 4 2 USB 2.0 connectors
- 6 Front 2 Fan Assembly
- 8 UID LED
- 10 Hard Drive Bays



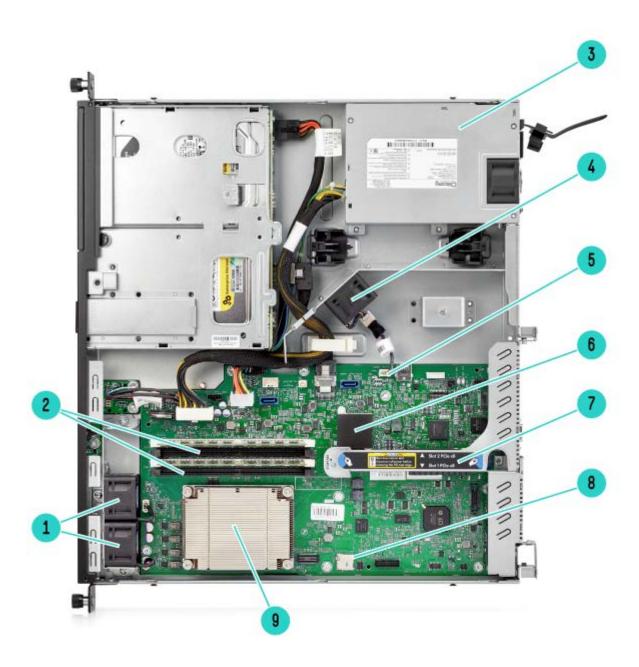
Rear view

- 1 Expansion Slot 1, PCle x 8
- 3 Redundant Power Supply (only on SFF Chassis)
- 5 NIC Connector 2
- 7 NIC1/shared iLO connector

- 2 Expansion Slot 2, PCle x 16
- 4 UID LED
- 6 Video Connector
- 8 USB 3.0 Connector



Overview



Internal View

- 1 Fan cage shown with 2 fans
- 3 (Under) Power supply (1x 290W power supply shown)
- 5 Internal USB 3.0 connector
- 7 PCle Riser
- 9 1 Processor, heatsink showing, with HP Smart Socket Guide
- 2 DDR4 DIMM slots. 4 slots
- 4 Central Fan Assembly
- 6 Embedded HPE Smart Array B140i controller
- 8 MicroSD card slot

What's New

- Introducing HPE Non-hot Plug Entry drives and Hot plug standard drives for price sensitive customers
- 8Gb and 16Gb Fiber Channel HBA support

Overview

• Introducing TPM 2.0

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 frequency	Cores	L3 Cache	Power	DDR4 Hz
G4400	3.3GHz	2	3MB	54W	2133
G4500	3.5GHz	2	3MB	51W	2133
i3-6100	3.7GHz	2	3MB	51W	2133
i3-6300	3.8GHz	2	4MB	51W	2133
E3-1220v5	3.0GHz	4	8MB	80W	2133
E3-1225v5	3.3GHz	4	8MB	80W	2133
E3-1230v5	3.4GHz	4	8MB	80W	2133
E3-1240v5	3.5GHz	4	8MB	80W	2133
E3-1270v5	3.6GHz	4	8MB	80W	2133
E3-1280v5	3.7GHz	4	8MB	80W	2133
E3-1240Lv5	2.1GHz	4	8MB	25W	2133
E3-1260Lv5	2.9GHz	4	8MB	45W	2133

Chipset

Intel® C232 Chipset

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

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

On System

HPE iLO (Firmware HPE iLO4 2.0 or later), 4GB NAND

Management Chipset

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

the iLO QuickSpecs.

Memory

Type:

DDR4 Unbuffered (UDIMM) Unbuffered (UDIMM)

DIMM Slots Available 4 DIMM slots per processor; 2 channels per processor, 2 DIMMs per

channel

Maximum Capacity

(UDIMM)

64GB (4 x 16GB UDIMM @2133MHz)

Memory Protection ECC

One of the following depending on model

Network **Controller**

HPE Ethernet 1Gb 2-port 332i network Adapter or BCM5720.

The HPE ProLiant DL20 Gen9 server offers the customer a dual-port NIC standard with the option to upgrade with a variety of networking options.

Dual side Low	Expansion	Technology	Bus	Connector	Bus	Form	Factor	Notes
orofile riser	Slots #	,	Width	Width	Number			
	1	PCIe 3.0	x8	x8			ngth/half eight	
	2	PCIe 3.0	x8	x8			nath/Full eight	
	NOTE: Bus	Width data i	ndicates	the number o	of physical o	electrical la	nes running to the	connector
FlexibleLOM Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
	1	Flexible LOM	x8	x8			Half-length/half height	
	2	PCIe 3.0	x8	x8			Half-length/Full Height	
	NOTE: This	riser is man	datory fo	r installing Fl	exibleLOM	S.		
GPU Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
	2	PCle 3.0	x16	x16			Half-length/Full Height	
	NOTE: It is	mandatory to	choose	one of the ab	ove risers.			

Storage Controller Entry Models

One of the following depending on model Base Models

Entry Models HPE Dynamic Smart Array B140i Controller
Base Models HPE Dynamic Smart Array B140i Controller
Performance Models HPE H240 FIO Smart Host Bus Adapter

NOTE: B140i provides support for up to 4 SATA drives, data transmission speeds up to 6Gb/s and supports RAID 0, 1 & 5 on DL20 Gen9.

NOTE: H240 provides support for up to 4 SAS/SATA drives, data transmission speeds up to 12Gb/s and supports RAID 0, 1 & 5 on DL20 Gen9.

NOTE: DL20 Gen9 also supports other controller options like P440; read additional option to know more.

Internal Storage Devices

One of the following depending on model

Optical Drives Hard Drives Hard Drive Bays Optional: DVD-ROM, DVD-RW

None ship standard

4 SFF drive bays total with Optical Bay 2 LFF drive bays total with Optical Bay

NOTE: HPE ProLiant DL20 Gen9 server offers Hot plug LFF, Non hot plug LFF and SFF versions in CTO. The Optical Drive bay is available with both models.

NOTE: Drive cage changes are not supported.

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 654961-B21: HPE SFF Gen9 Hard Drive Blank Kit or P/N 689745-B21: HPE LFF Gen9 Hard Drive Blank Kit

or P/N 654963-B21: HPE LFF Gen9 Hard Drive Blank kit. These part numbers for single HDD blanks below are also provided should the customer require replacement HDD blanks for their server.

Maximum Interna	I	CAPACITY	CONFIGURATION
Storage	Hot Plug SFF SAS	8TB	4 x 2TB
One of the following	Hot Plug SFF SATA	8TB	4 x 2TB
depending on	Hot Plug LFF SAS	16TB	2 x 8TB
model	Hot Plug LFF SATA	16TB	2 x 8TB
	Hot Plug SFF SAS SSD	15.36TB	4 x3.84TB
	Hot Plug SFF SATA SSD	15.36TB	4 x3.84TB
	Hot Plug LFF SATA SSD	15.36TB	4 x3.84TB
	Non Hot Plug LFF SATA	8TB	2 x 4TB

Power Supply

HPE 290W FIO Power Supply

One of the following HPE 900W AC 240V DC Redundant Power Supply

depending on model

NOTE: HPE 900W Redundant Power Supply supports100VAC to 240VAC and also supports 240VDC.

Hewlett Packard Enterprise 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. The above mentioned Entry-Level power supply options have been designed specifically for HPE ProLiant DL20 Gen9 Server.

The HPE 290W FIO Power Supply is the standard, non-redundant AC power supply. It features 92% power efficiency with a set of features optimized for the DL20 Gen9 rack server.

The HPE 900W Gold (Redundant) AC/240V DC Power Input Module with Power Backplane can be configured to support power redundancy in ProLiant servers that offer only a single power supply bay. providing additional protection against power loss. With an 80 Plus Gold power efficiency rating (up to 92%), this power option helps to reduce operating expenses while protecting against trapped power capacity in the data center. The power backplane option can support up to two (2) hot-plug AC power input modules. This Redundant power supply option is only supported on DL20 Gen9 SFF chassis model.

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 located

at http://h18004.www1.hp.com/products/servers/proliantstorage/powerprotection/options/power-cable.html

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

System Fans Non-redundant Redundant One of the following 1P model 3 fans NA depending on DL20 has 3 fans,2 front fan assemblies and 1 center fan assembly which ship standard, model non-redundant.

QuickSpecs

Standard Features

Interfaces Video 1 rear video connector

> **USB** 5 USB ports (standard)

> > Front: 2xUSB 2.0 Rear: 2xUSB 3.0 Internal: 1x USB 3.0

Micro SD Slot 1 Micro SD

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

card into the SD slot while the server is powered.

NOTE: Customers can upgrade to next generation network (10 GbE) by installing a FlexibleLOM

2x1GbE ports

riser.

Operating Microsoft Windows Server

Systems and **Red Hat Enterprise Linux (RHEL)** Virtualization <u>SUSE Linux Enterprise Server (SLES)</u>

LOM Network Ports

Software

VMware Support for

NOTE: VMWare availability is dependent on General availability from the vendor. DL20 **ProLiant**

supports VMWare 5.5U3 and 6.0 U1 Servers

NOTE: For more information on the Hewlett Packard Enterprise 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://h20566.www2.hpe.com/portal/site/hpsc?ac.admitted=1447391526103.125225703.1938120508.

Upgradeability FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options

One of the following Up to 4 DIMM slots available for higher memory capacity

depending on

model

Up to 4SFF Drive bays or 2LFF Drive bays HPE Smart Array or Smart HBA Controller

Redundant Power Supply

NOTE: RPS is only compatible with DL20 SFF Chassis. Customer can upgrade from DL20 Gen9

on SFF chassis with 290W PSU to 900W redundant power supply

Industry Standard UEFI (Unified Extensible Firmware Interface Forum)

Compliance PCle 3.0 Compliant

> **PXE Support WOL Support**

Microsoft® Logo certifications

USB 3.0 Support ASHRAE A3

NOTE: Refer to technical specifications section for more details.

Graphics Integrated Matrox G200 video standard

On board graphics: Integrated Matrox G200 video standard

• 1280 x 1024 (32 bpp)

• 1920 x 1200 (16 bpp)

HP iLO 4 On System Management Memory

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

HPE NVIDIA Quadro K2200 GPU Module

NOTE: Install GPU riser option to support GPU card. A GPU enablement kit 811271-B21 is mandatory to support GPU.

HPE Server

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability **UEFI/Legacy ROM** and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE 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 HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit http://www.hpe.com/servers/uefi.

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

- Secure Boot
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- **Embedded UEFI Shell**
- Mass Configuration Deployment Tool using RESTful API for iLO 4
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM
- Network Stack configurations

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

NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen9 Server.

Form Factor

1U Rack form factor One of the following 4SFF and 2LFF version:

depending on

1.70" (4.32cm) Height x 15.05" (38.22cm) Depth x 17.11" (43.46cm) Length

model

NOTE: Depth of the chassis is measured from rear to ear at 15.05". Depth from rear to bezel is 15.5".

Embedded Management

Lights-Out

HPE Integrated Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Not available on ML10 Gen9. Learn more

at http://www.hpe.com/info/ilo. (HPE iLO)

UEFI

Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more

at http://www.hpe.com/servers/uefi.

RESTful API RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server

> management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi.

Intelligent **Provisioning** Hassle free server and OS provisioning for 1 or few servers with Intelligent

Provisioning. Learn more

at http://www.hpe.com/servers/intelligentprovisioning.

Embedded

The Hewlett Packard Enterprise embedded remote support, when used with Remote Support Insight Online direct connect or HPE Insight Remote Support, allows HPE

> ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated

phone home support. Learn more

at http://www.hpe.com/info/insightonline/explore.

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

Server
utilities

Smart Update Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP) and smart components. Learn more

at http://www.hpe.com/servers/smartupdatemanager.

HPE Systems Insight

HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for non-Hewlett Packard Enterprise servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware

Manager (HPE SIM) updates. Learn more at http://www.hpe.com/servers/hpsim.

Scripting Tool Kit

and

Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at http://www.hpe.com/servers/proliant/stk or http://www.hpe.com/servers/powershell.

Windows

PowerShell

RESTful

RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and

Interface Tool

deploy servers at scale. Learn more at http://www.hpe.com/info/resttool.

HPE iLO

Enables the ability to access, deploy, and manage your server anytime from anywhere from select

Mobile smartphones and mobile devices. For additional information please

Application visit: http://www.hpe.com/info/ilo/mobileapp.

HPE Insiaht **Online**

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

Security

Power-on password Serial interface control Administrator's password

TPM 1.2 TPM 2.0 APCI 2.0b UEFI

Warranty

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

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

at http://www.hpe.com/servers/iLO/essentials.

iLO Scale-Out

HPE 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 for the DL 100 and 10 series servers, not available for ML servers. 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.hpe.com/servers/iLO/scale-out.

iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE 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 HPE iLO Advanced

at http://www.hpe.com/servers/iloadvanced.

Server Management

HPE Insight Control

HPE 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.hpe.com/info/insightcontrol.

Rack and Power Infrastructure

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

Learn more at **HPE Rack and Power Infrastructure**.

Clusters

High Performance HPE 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 HPEC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters.

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

Optional Features

supported by Hewlett Packard Enterprise 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 HPEC Clusters with InfiniBand

Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html

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

(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 Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. https://h22174.www2.hp.com/SimplifiedConfig/Index.

Service and Support

HPE Support Services

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support for need for your IT and business.

Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support.

1-IDC 2-HP CSC reports 2014-2015

Recommended Support

Basic: HPE Foundation Care NBD, three-year Support Service

HPE Foundation Care Next Business Day connects you to Hewlett Packard Enterprise during business hours for assistance on resolving issues – This service features need based next business day hardware onsite response and software call back within two hours. In addition, Collaborative software support and provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems.

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

Standard: HPE Foundation Care 24x7, three-year Support Service

HPE Foundation Care 24x7 gives you access to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues. This service includes need based Hardware onsite response within four hours. In addition, collaborative software support is included in this service that provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems.

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

Optimized: HPE Proactive Care* with 24x7 coverage, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your Hewlett Packard Enterprise servers.

Parts and Materials

Hewlett Packard Enterprise will provide Hewlett Packard Enterprise-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 QuickSpecs, or the technical

Service and Support

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 Hewlett Packard Enterprise due to malfunction.

Related Services

HPE Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise 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

HPE Installation and Startup Service

Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems, C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux).

HPE Technology Services Support Credits

Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.

HPE Education Services

Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. http://www.hpe.com/ww/learn

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers.

Learn more http://www.hpe.com/support/hpesc

The Hewlett Packard Enterprise 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.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.

*HPE Support Center Mobile App is subject to local availability.

For more information: http://www.hpe.com/services

Pre-configured Models

	Entry Models	Base Models		
[SKU Number]	829889-B21	823556-B21		
Model Name	HPE ProLiant DL20 Gen9 G4400 4GB-U Non-hot Plug 2LFF 290W PS Entry Server	HPE ProLiant DL20 Gen9 E3-1220v5 8GB-U B140i 2LFF 290W PS Base Server		
Processor	Intel® Pentium® G4400	Intel® Xeon® E3-1220v5		
Number of Processors		One		
Memory	4GB (1x4GB UDIMMs, 2133 MHz)	8GB (1x8GB UDIMMs, 2133 MHz)		
Network Controller	HPE embedded 1Gb 2-p	oort 332i network Adapter		
Storage Controller	HPE Dynamic S	Smart Array B140i		
Hard Drive	None ship standard; includes 2 LFF hard drive blanks	None ship standard		
Internal Storage	2 LFF HDD Bays (Non Hot Plug)	2 LFF HDD Bays (Hot Plug)		
Optical Drive Bay	1; (Optional: DVI	D-ROM, DVD-RW)		
Optical Drive	N	one		
PCI-Express Slots	2 PCle	3.0 slots		
Power Supply	(1) 290W Non Ho	t Plug Power Supply		
Fans	3 non hot plug	, non-redundant		
Management		iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional)		
Form Factor	Rack (1U), HPE S	Rack (1U), HPE Short Friction Rail kit		
Warranty	·	Server Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with nex business day response		

	Performa	nce Models			
[SKU Number]	823559-B21	823562-B21			
Model Name	HPE ProLiant DL20 Gen9 E3-1240v5 8GB-U H240 4SFF 290W PS Performance Server	HPE ProLiant DL20 Gen9 E3-1240v5 8GB-U H240 4SFF 900W RPS Performance Server			
Processor	Intel® Xeor	Intel® Xeon® E3-1240v5			
Number of Processors		One			
Memory	8GB (1x8GB UE	8GB (1x8GB UDIMMs, 2133 MHz)			
Network Controller	HPE embedded 1Gb 2-p	HPE embedded 1Gb 2-port 332i network Adapter			
Storage Controller	HPE H240 Smar	HPE H240 Smart Host Bus Adapter			
Hard Drive	None shi	None ship standard			
Internal Storage	4 SFF H	4 SFF HDD Bays			
Optical Drive Bay	1; (Optional: DVI	1; (Optional: DVD-ROM, DVD-RW)			
Optical Drive	N	None			
PCI-Express Slots	2 PCle	2 PCIe 3.0 slots			

Pre-configured Models

Power Supply	(1) 290W Non Hot Plug Power Supply (1) HPE 900W Redundant Power Supply and RPS Backplane kit		
Fans	3 non hot plug	g, non-redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional)		
Energy Star	Meets Energy Star requirements		
Form Factor	Rack (1U), HPE Short Friction Rail kit		
Warranty	Server Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response		

NOTE: For 823562-B21 Model, add additional 900W Redundant Power supply input module for redundancy. The BTO includes the backplane cable kit and need not be added additionally.

NOTE: 823562-B21 Energy Star certification would be available latest by April 2016.

Country Code Key xx1 = B21 Worldwide

xx1 = 291 Japan xx1 = AA1 PRC

Configuration Information - Factory Integrated Models

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise 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]	HPE ProLiant DL20 Gen9 Non- hot Plug 2LFF Configure-to-order Server	HPE ProLiant DL20 Gen9 2LFF Configure-to-order Server	HPE ProLiant DL20 Gen9 4SFF Configure-to-order Server		
SKU Number	819784-B21	819785-B21	819786-B21		
Processor	1	1	1		
DIMM Slots	4 DIMM slots for UDIMM DDR4 Memory				
Storage Controller	HPE Dynamic Smart Array B140i				
PCle	2 PCIe 3.0 Slots				
Drive Cage	2LFF Non Hot Plug	2LFF Hot Plug	4SFF Hot Plug		
Network Controller	HPE embedded 1Gb 2-port 332i network Adapter				
Fans	3 non hot plug, non-redundant				
Management	iLO Management (standard), Intelligent Provisioning (standard)				
USB	2 front, 1 internal, 2 rear				
Ears	HPE Thumbscrew Ears				

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

HPE Processors

Select one processor from Core options-Processor section below

- Select one xxxxxx-L21.
- Only one processor 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® C232 Chipset E3-1200 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 1200x v#, 1 is the number of CPU, 2 is socket type/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) is the version number.

HPE Memory

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

Configuration Information - Factory Integrated Models

- HPE memory from previous generation servers are not qualified or warranted with this HPE ProLiant Server.
- HPE Standard Memory (UDIMM) is required to realize the memory performance improvements and enhanced functionality listed in this document for this HPE ProLiant Server.
- With one processor installed, four DIMMs slots are available.
- 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 would run at 2133MHz. Please see Memory Population Table or the Online Memory Configuration Tool

at: http://www.hp.com/go/ddr4config.

HPE Power Supplies

Select power supply 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 HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located
 - at: http://www.hp.com/go/hppoweradvisor.

On 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.

• HPE RPS require Redundant backplane kit and an RPS cable kit option for redundancy

Step 3: Choose Additional Factory Integratable Options

HPE 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.

HPE Drives

Select one or more drives from Core options-HPE 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 HPE 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 HPE Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove".

HPE Flexible LOM Select a FlexibleLOM from Core options-Networking section below,

Configuration Information - Factory Integrated Models

- 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.

HPE 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.

HPE 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 HPE Storage Controllers section below.
- FIO indicates that this option is only available as a factory installable option.

HPE I/O Expansion Select one Riser Kit options from Core options section below. **Options**

- It is mandatory to choose one riser kit option for DL20 Gen9 configurations
- This section may contain FIO options, please see HPE I/O Expansion Options section below.
- FIO indicates that this option is only available as a factory installable option

HPE Rail Kits

One short friction rail kit option is supported on this HPE ProLiant Server as given 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.
- See HPE Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.

CAUTION: Please refer to your installation instructions for proper tools and number of people to use for any installation.

Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations.

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

HPE Unique Options	HPE DL20 Gen9 2LFF Mini SAS P440 Cable Kit NOTE: This cable kit is required to support P440 controller on 2LFF chassis	811279-B21
opilolis .	HPE DL20 Gen9 4SFF Mini SAS P440 Cable Kit	011202 D21
	NOTE: This cable kit is required to support P440 controller on 4SFF chassis	811282-B21
	HPE DL20 Gen9 Smart Storage Battery Holder NOTE: This holder is required to install the HPE Smart Storage battery (727258-B21) on P440 controller with FBWC (820834-B21, 726821-B21).	822451-B21
	HPE DL20 Gen9 Redundant Power Supply Backplane Cable Kit NOTE: It is mandatory to choose this back plane cable kit to support 828734- B21, 775595-B21 Redundant Power Supply Input Module. This cable kit is required in instances of single or double 900W PSU unit.	820306-B21
	HPE DL20 Gen9 M.2 RA and Optical Disk Drive Power Cable Kit NOTE: This cable kit is required to support M.2 and or ODD.	816284-B21
	HPE DL20 Gen9 Flexible LOM Riser Kit NOTE: This option is required to upgrade to next generation networking capabilities like 10GbE.	811259-B21
	HPE DL20 Gen9 PCIe Low Profile Riser Kit NOTE: It is mandatory to choose a riser kit to enable PCIe slots.	811265-B21
	HPE DL20 Gen9 PCIe Low Profile Riser FIO Kit	854846-B21
	HPE DL20 Gen9 GPU Enablement Kit NOTE: It is mandatory to choose the GPU enablement kit to support qualified GPU card	811271-B21
HPE Processors	Entry Processors	
	HPE ProLiant DL20 Gen9 Intel® Core™ i3-6100 (3.7GHz/2-core/3MB/51W) FIO Processor Kit	840010-L21
	HPE ProLiant DL20 Gen9 Intel® Core™ i3-6300 (3.8GHz/2-core/3MB/51W) FIO Processor Kit	840012-L21
	HPE ProLiant DL20 Gen9 Intel® Pentium® G4500 (3.5GHz/2-core/3MB/51W) FIO Processor Kit	840016-L21
	HPE ProLiant DL20 Gen9 Intel® Pentium® G4400 (3.3GHz/2-core/3MB/54W) FIO Processor Kit	840018-L21
	Base Processors	
	HPE DL20 Gen9 E3-1220v5 (3.0GHz/4-core/8MB/80W) FIO Processor Kit	822425-L21
	HPE DL20 Gen9 E3-1225v5 (3.3GHz/4-core/8MB/80W) FIO Processor Kit NOTE: On E3-1225v5 we do not support embedded graphics capability.	836037-L21
	HPE DL20 Gen9 E3-1230v5 (3.4GHz/4-core/8MB/80W) FIO Processor Kit	822427-L21
	Performance Processors	
	HPE DL20 Gen9 E3-1240v5 (3.5GHz/4-core/8MB/80W) FIO Processor Kit	822429-L21
	HPE DL20 Gen9 E3-1270v5 (3.6GHz/4-core/8MB/80W) FIO Processor Kit	822431-L21

	HPE DL20 Gen9 E3-1280v5 (3.7GHz/4-core/8MB/80W) FIO Processor Kit HPE DL20 Gen9 E3-1260Lv5 (2.9GHz/4-core/8MB/45W) FIO Processor Kit HPE DL20 Gen9 E3-1240Lv5 (2.1GHz/4-core/8MB/25W) FIO Processor Kit	822433-L21 822437-L21 822435-L21
HPE Memory	Unbuffered DIMMs (UDIMMs)	
	HPE 16GB (1x16GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Unbuffered Standard Memory Kit	805671-B21
	HPE 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Unbuffered Standard Memory Kit	805669-B21
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Unbuffered Standard Memory Kit	819880-B21
	HPE 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Unbuffered Standard Memory Kit	805667-B21
	NOTE: Depending on the processor selected these memory will run at 2133MHz.	
HPE Optical Drives	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
	NOTE: It is mandatory to choose a cable kit 816284-B21 with the above options.	
HPE Drives	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
	SATA Non-Hot Plug LFF (3.5-inch) Entry(ETY) Drives	
	HP 4TB 6G SATA 5.9K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive	815635-B21
	HPE 500GB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive	843264-B21
	HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive	843266-B21

HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive	843268-B21
HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Entry 512e 1yr Warranty Hard Drive	843270-B21
NOTE: These Entry drives will have lower performance and workload rating in	
comparison to HPE enterprise drives.	
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
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 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 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	628061-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21
HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21
HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785069-B21
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	

HP 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 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 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 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
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21
HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
6G SATA Hot Plug SFF (2.5-inch) SC 512e 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
6G SATA Hot Plug LFF (3.5-inch) SC 512e Performance Drives	
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 512e Performance 1yr Warranty Hard Drives	793665-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816965-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21

12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives

HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
12G SAS Hot Plug SFF (2.5-inch) SC 512e 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 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive	748387-B21
HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21
12G SAS Hot Plug LFF (3.5-inch) SC 512e Performance Drives	
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 512e Performance 1yr Warranty Hard Drive	793669-B21
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
12G SAS Hot Plug SFF (2.5-inch) SC Read/Write Intensive Solid State Drives	
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
HPE 800GB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846430-B21
HPE 1.6TB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846432-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21
12G SAS Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise	
Mainstream H2 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 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691866-B21
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691868-B21

6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1

Solid State Drives

HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764929-B21
	764927-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	7049Z7-DZ1
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	764923-B21
Solid State Drive	
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
6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise	
Value M1 Solid State Drives	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764945-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr	764943-B21
Wty M1 Solid State Drive	
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764941-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764939-B21
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
6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	00.00.52.
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream	691862-B21
3yr Wty Solid State Drive	071002 521
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr	756639-B21
Wty G1 Solid State Drive	
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	
HP 480GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789145-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 LFF (3.5-inch) SC Read Intensive Solid State Drives	
HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789147-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
, ,	

HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
6G SATA Value Endurance Hot Plug SFF (2.5-inch) SC 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
6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives	
HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816879-B21
HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816889-B21
HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816899-B21
HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816909-B21
HP 1.92TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816919-B21
HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816929-B21
6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD	
HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816969-B21
HP 240GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816979-B21
HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816989-B21
HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816999-B21
HP 1.92TB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	817015-B21
6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives	
HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816975-B21
HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816985-B21
HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-B21
HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	817011-B21
HPE 800GB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846434-B21
HPE 1.6TB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846436-B21
6G SATA Hot Plug LFF (3.5-inch) RI-3 SCC SSD	
HP 120GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816883-B21
HP 240GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816893-B21
HP 480GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816903-B21

HPE Networking

HP 960GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816913-B21	
HP 1.92TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816923-B21	
HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816933-B21	
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives		
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 LFF (3.5-inch) SC Write Intensive Solid State Drives		
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	
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	
HPE 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835563-B21	
HPE Dual 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835565-B21	
HPE DL20 Gen9 M.2 RA and Optical Disk Drive Power Cable Kit NOTE: 816284-B21 cable kit is a mandatory option required to support M.2 SSDs	816284-B21	
NOTE: M.2 drives go in PCIe slot and use B140i SATA controller.		
Hard Drive Blank Kits		
HP Large Form Factor Hard Drive Blank Kit	666986-B21	
HP Small Form Factor Hard Drive Blank Kit	666987-B21	
1 Gigabit Ethernet adapters		
HP Ethernet 1Gb 4-port 331T Adapter	647594-B21	
HP Ethernet 1Gb 4-port 366T Adapter	811546-B21	
HP Ethernet 1Gb 2-port 361T Adapter	652497-B21	
HP Ethernet 1Gb 2-port 332T Adapter	615732-B21	
HP PS1810-24G Switch	J9834A	
10 Gigabit Ethernet adapters		
HP Ethernet 10Gb 2-port 530T Adapter	656596-B21	
HP Ethernet 10Gb 2-port 561T Adapter	716591-B21	
HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21	

HP Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
HP Ethernet 10Gb 2-port 557SFP+ Adapter	788995-B21
HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21

NOTE: A minimum of two Gigabytes (2GB) of server memory is required per each adapter.

NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. See cables/options below.

FlexibleLOM Adapters

HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs.

HPE I/O Expansion	ON HPE DL20 Gen9 PCIe Low Profile Riser FIO Kit	854846-B21
Options	HPE DL20 Gen9 Flexible LOM Riser Kit	811259-B21
	HPE DL20 Gen9 GPU Enablement Kit	811271-B21

NOTE: It is mandatory to choose any of the above riser kit for CTO configurations.

HPE Power Supplies

HPE ProLiant Gen9 Essential Server Power Supplies - Non-Redundant

HPE DL20 Gen9 290W FIO Power Supply Unit Kit 816283-B21

NOTE: 290W PSU is a Non hot plug power supply.

NOTE: This FIO option can only be bought integrated in the server. It cannot

be ordered as a standalone option after server purchase.

HPE ProLiant Gen9 Essential Server Power Supplies - Redundant

HPE 900W AC 240VDC Power Input Module FIO Kit 828734-B21

NOTE: This Power supply supports both 100-240V AC and 240V DC.

HPE 900W AC 240VDC RPS Power Backplane FIO Kit 828735-B21

NOTE: The backplane kit and the backplane cable kit (820306-

B21) are mandatory with the power input module.

NOTE: This FIO option can only be bought integrated in the server. It cannot

be ordered as a standalone option after server purchase.

HPE 900W AC 240VDC Redundant Power Supply Kit 820792-B21

NOTE: This Redundant Power supply kit includes 2 power supply input modules and 1 backplane kit. Backplane cable kit (820306-B21) is mandatory for this option.

HPE 900W AC 240VDC Power Input Module 775595-B21

NOTE: This part number can only be bought standalone and is for field integration only.

HPE 900W AC 240VDC RPS Power Backplane

814835-B21

NOTE: This part number can only be bought standalone and is for field

integration only.

NOTE: The backplane kit and the backplane cable kit (820306-

B21) are mandatory with the power input module.

HPE DL20 Gen9 Redundant Power Supply Backplane Cable Kit

820306-B21

NOTE: This RPS backplane Cable kit is mandatory to be chosen along with 900W backplane.

NOTE: This Power supply supports both 100-240V AC and 240V DC.

NOTE: Supports Gold-level efficiency (92%) with a standard C14 inlet connector. No support for HPE

Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers.

NOTE: HPE 900W Gold (Redundant) AC 240VDC Power Input Module (775595-B21/828734-B21) must be used with Power Backplane (814835-B21/828735-B21).

NOTE: Each Redundant Power Supply Backplane can support up to two (2) power input modules.

NOTE: DL20 Gen9 Backplane cable kit is a mandatory option with the backplane for DL20 Gen9.

NOTE: Redundant AC Power Input Modules do not share power. Redundant AC Power Input Module #1 is the primary AC Power Input Module. Redundant AC Power Input Module #2 is the backup AC Power Input Module.

HPE Computation HP NVIDIA Quadro K2200 Graphics Accelerator

JOG89A

and Graphics Accelerators

NOTE: 1 GPU supported per Server.

NOTE: 1 GPU Enablement kit 779611-B21 must be selected when adding a GPU option.

NOTE: Only the above listed Graphics cards are Hewlett Packard Enterprise 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 HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located

at: http://www.hp.com/go/hppoweradvisor.

Embedded

Additional Options

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

HPE Insight	HPE Insight Control	
Software	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A
	HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28ABE
	HP Insight Management Media Kit	C6N31A
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO	C6N36ABE

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

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24x7 HPE Software Technical Support and Update Service.

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

NOTE: For additional license options please see the HPE Insight Control QuickSpecs.

Management	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single	512485-B21	
	Server License		
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Flexible	512486-B21	
	Quantity License		
	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A	
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Tracking	512487-B21	
	License		
	HP iLO Advanced Flexible Qty License with 3yr 24x7 Tech Support and Updates	BD506A	
	HP iLO Advanced Tracking License with 3yr 24x7 Tech Support and Updates	BD507A	
	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	
	HPE iLO Essentials		
	HD Integrated Lights-Out Essentials including 3vr 2/v7 Tech Support and	RD77/. Λ	

HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and	BD774A
Updates Single Svr License	
HP Integrated Lights-Out Essentials including 3yr 24x7 Technical Support and	E6U61ABE
Updates E-LTU	
HP Integrated Lights-Out Essentials including 1yr 24x7 Technical Support and	E6U62ABE
Updates E-LTU	
HP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and Updates	BD775A
Single Svr License	

HPE iLO Scale-out

HPE iLO Advanced

-3 911013	HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	820834-B21
HPE Storage Controllers	SAS Controllers HPE Smart Array Controllers	
	standard. The Quick Release Ear kit needs to be purchased if you want to have a security bezel installed.	
	HPE DL20 Gen9 Quick Release Ear FIO Kit NOTE: DL20 Gen9 ships with thumbscrew ear attachments (BTO and CTO) as	811254-B21
	NOTE: Quick Release Ear option kit (P/N 811254-B21) is mandatory for installing security bezel.	
	HP 1U Security Bezel Kit	664918-B21
	HP Trusted Platform Module Option	488069-B21
HPE Security	HP Trusted Platform Module 2.0 Kit	745823-B21
	HP Insight Cluster Management Utility Media	BD477A
	HP Insight Cluster Management Utility 1yr 24x7 Flexible License	QL803B
Clusters	HP Insight Cluster Management Utility 3yr 24x7 Flexible License	BD476A
High Performand	e HPE Cluster Management Utility	
	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HP iLO Advanced Tracking License with 3yr 24x7 Tech Support and Updates	BD507A
	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates HP iLO Advanced Flexible Qty License with 3yr 24x7 Tech Support and Updates	BD505A BD506A
	License	
	Quantity License HP iLO Advanced including 1yr 24x7 Technical Support and Updates Tracking	512487-B21
	Server License HP iLO Advanced including 1yr 24x7 Technical Support and Updates Flexible	512486-B21
License	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single	512485-B21
HPE iLO Advanc	ed HPE iLO Advanced	
	Tracking License	איזוטט
	Flex Qty E-LTU HP Integrated Lights-Out Scale-Out including 1yr 24x7 Tech Support and Updates	BD779A
	Updates Tracking License HP Integrated Lights-Out Scale-Out including 1yr 24x7 Tech Support and Updates	BD778AAE
	Updates Flex Qty E-LTU HP Integrated Lights-Out Scale-Out including 3yr 24x7 Tech Support and	BD777A
	HP Integrated Lights-Out Scale-Out including 3yr 24x7 Tech Support and	BD776AAE
	Quantity License HP Integrated Lights-Out Scale-Out 3yr 24x7 Tech Support and Updates Flex Quantity License	BD776A

NOTE: The above SKUs include 96W Smart Storage Battery.

HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21				
NOTE: The option requires a 96W Smart Storage Battery p/n 727258-B21.					
HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21				
NOTE: The above SKUs include 96W Smart Storage Battery.					
HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21				
HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21				
NOTE: P440 needs to be populated in slot 2 (Full Height).					
HPE 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				
NOTE: H240 needs to be populated in slot 2 (Full Height).					
HPE Cable Options					
HPE DL20 Gen9 2LFF Mini SAS P440 Cable Kit	811279-B21				
HPE DL20 Gen9 4SFF Mini SAS P440 Cable Kit	811282-B21				

NOTE: One of the above cables is required to be selected depending on the combination of server and storage controller. Cable option kit descriptions include the right server and storage controller 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: All the server chassis (Mod-x) includes min-SAS cables required to connect drives to embedded B140i SATA controller or HBA240 controller (HBA240 is optional).

Optional Software

HP Secure Encryption per Svr Entitlement	C9A82AAE			
HP SmartCache No Media 24x7 Technical Support 1 Svr License	D7S26A			
HP SmartCache No Media 24x7 Technical Support Flexible License	D7S27A			
HP SmartCache No Media 24x7 Technical Support Electronic License	D7S27AAE			
Optional Upgrades				
HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers	727258-B21			
NOTE: This option is mandatorily required with HPE Smart Array controllers.				
One server can accommodate only 1 Smart Storage Battery that would suffice				
the requirement of all HPE Smart Array controllers.				
Battery Holder				
HPE DL20 Gen9 Smart Storage Battery Holder	822451-B21			

HPE Tape Backup NOTE: For the complete range of tape drives, autoloaders, libraries and media see:

NOTE: This holder is mandatorily required with Smart Storage Battery.

http://www.hp.com/go/tape. For hardware and software compatibility of HPE tape backup products see: http://www.hp.com/storage/SPOCK and http://www.hp.com/go/ebs.

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

Tape Drives

SAS Rack-Mount Tape Solutions

HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A

Systems

Bundle

Additional Options

HP StoreFabric SN1000Q 16GB 2-port PCle Fibre Channel Host Bus Adapter	QW972A
_	AJ764A
·	C8R39A
	AJ763B
Emulex Fibre Channel HBAs	
http://www.hp.com/storage/SPOCK.	
and software compatibility of Hewlett Packard Enterprise disk backup products	_
· · · · · · · · · · · · · · · · · · ·	
·	BB913A
,	BB922A
	BB914A
	QW968A BB915A
	QW967A
	011077
HPE StoreEver MSL648U Scalable Base Module	QU625A
·	QU626A
	011/0/
·	AK381A
	A 1/701 A
· · · · · · · · · · · · · · · · · · ·	AK379A
• •	۸ ۱/770 ۸
·	COH19A
	COL 110 A
	K2R10A
Cable	
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2m	K2R09A
HP StoreEver 1U SAS Rack-mount Kit	AE459B
HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
HP StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	EH946C
HP StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	EJ014B
	HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive HP StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit HP StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive HP StoreEver Mini-SAS Rack-mount Kit HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2m Cable HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 4m Cable HPE DAT Autoloader HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader HPE StoreEver MSL 62 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader HPE MSL4048 Tape Library HPE StoreEver MSL2024 O-drive Tape Library HPE StoreEver MSL4048 O-drive Tape Library HPE StoreEver MSL6480 HPE StoreEver MSL6480 Scaleable Expansion Module HPE StoreEver MSL6480 Scaleable Expansion Module HPE StoreOnce S100 48TB System HP D3700 Enclosure HPE StoreOnce 5100 48TB System HPE StoreOnce 3520 12TB System HPE StoreOnce 3520 12TB System HPE StoreOnce 3100 8TB System NOTE: For the complete range of RDX drives and media see: http://www.hp.com and software compatibility of Hewlett Packard Enterprise disk backup products : http://www.hp.com/storage/SPOCK. Emulex Fibre Channel HBAS HP 82E 8Gb 2-port PCle Fibre Channel Host Bus Adapter HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter QLogic Fibre Channel HBAS HP 820 8Gb 2-port PCle Fibre Channel Host Bus Adapter

HP D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB

MOT59A

HPE Data Center

Racks

HP D6000 w/70 6TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 420TB Bundle	МОТ57А
HP D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A
HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W3OA
HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
HP D6000 Dual I/O Module Disk Enclosure	QQ695A
HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A
HPE Advanced Series Racks	
HPE 11648 1075mm Pallet Universal Rack	H6J87A
HPE 11648 1075mm Shock Universal Rack	H6J88A
HPE 11642 1075mm Pallet Universal Rack	H6J65A
HPE 11642 1075mm Shock Universal Rack	H6J66A
HPE 11642 1200mm Pallet Universal Rack	H6J67A
HPE 11642 1200mm Shock Universal Rack	H6J68A
HPE 11636 1075mm Pallet Universal Rack	H6J77A
HPE 11636 1075mm Shock Universal Rack	H6J78A
HPE 11622 G2 1075mm Shock Universal Rack	H6J83A
HPE 11622 G2 1075mm Shock Universal Rack	H6J84A
HPE 11614 1075mm Shock Universal Rack	H6J82A
NOTE: Please see the HPE Advanced Series Racks QuickSpecs for	
information on additional racks options and rack specifications.	
HPE Enterprise Series Racks	
HPE 647 1075mm Pallet Intelligent Series Rack	BW911A
HPE 647 1075mm Shock Intelligent Series Rack	BW912A
HPE 647 1200mm Pallet Intelligent Series Rack	BW913A
HPE 647 1200mm Shock Intelligent Series Rack	BW914A
HPE 642 1075mm Pallet Intelligent Series Rack	BW903A
HPE 642 1075mm Shock Intelligent Series Rack	BW904A
HPE 642 1200mm Pallet Intelligent Series Rack	BW907A
HPE 642 1200mm Shock Intelligent Series Rack	BW908A
HPE 636 1075mm Pallet Intelligent Series Rack	BW895A
HPE 636 1075mm Shock Intelligent Series Rack	BW896A
HPE 842 1075mm Pallet Intelligent Series Rack	BW917A
HPE 842 1075mm Shock Intelligent Series Rack	BW918A
NOTE: Please see the HPE Enterprise Series Racks QuickSpecs for	
information on additional racks options and rack specifications.	
HPE Standard Series Rack	
HPE V142 1075mm deep Pallet 100 series Rack	AF046A
NOTE: Please see the <u>HPE Standard Series Racks QuickSpecs</u> for information	
and additional and a continuous and an algebra and the continuous and	

on additional racks options and rack specifications.

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PE Power	HPE Basic Power Distribution Units (PDU)	
istribution Units	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	H5M54A
PDUs)	HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	H5M56A
	HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU	H5M55A
	HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU	H5M57A
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU	H5M58A
	HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU	H5M68A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU	H5M61A
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M59A
	HPE Basic 7.3kVA/60309 3-wire 32A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M70A
	HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU	H5M60A
	HPE Basic 11kVA/60309 63A 3-wire 48A/230V Outlets (30) C13 (6) C19/Vertical INTL PDU	H5M71A
	HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU	H5M75A
	HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU	H5M63A
	HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU	H5M64A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M62A
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M72A
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6) C19/Vertical INTL PDU	H5M73A
	HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	H5M67A
	HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU	252663-D71
	HPE Basic Modular 4.9kVA/L6-30P 24A/208V Outlets (4) C19/Horizontal NA/JP Core Only PDU	252663-D74
	HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4) C19/Horizontal NA/JP PDU	252663-D75
	HPE Basic Modular 7.3kVA/60309 3-wire 32A/230V Outlets (4) C19/Horizontal INTL Core Only PDU	252663-B33
	HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4) C19/Horizontal INTL PDU	252663-B34
	HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A
	HPE Basic Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF513A
	HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF519A

HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF511A
HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF518A
NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs for	
information on additional options and product specifications.	
HPE Metered Power Distribution Units (PDU)	
	D9N43A
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A
HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU	G9Z06A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	D9N48A
HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU	D9N51A
HPE Metered 3Ph 5.7kVA/L21-20P 16A/120-208V Outlets (13) C13 (3)5-20R/Vertical NA/JP PDU	D9N52A
HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU	D9N53A
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13 (3) C19/Vertical INTL PDU	D9N55A
HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (32) C13 (4) C19/Vertical INTL PDU	D9N50A
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13 (3) C19/Vertical INTL PDU	D9N57A
HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N58A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) C19/Vertical NA/JP PDU	D9N61A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N62A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU	D9N54A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N59A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	G9Z07A

HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) AF522A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) AF901A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 3-wire 32A/230V Outlets (6) AF525A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 12kVA/60309 5-wire 32A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) AF535A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) AF537A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF537A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) AF538A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (20) C13 (6) AF531A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) AF531A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF534A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF534A C19/Horizontal NA/JP PDU	HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU	D9N63A
C19/Vertical INTL PDU HPE Metreed 3Ph 22kVA/60309 5-wire WT 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU HP Environmental Sensor for Remote Monitored and Managed PDUS E2D53A NOTE: Please see the HPE Metered Power Distribution Units (PDU) OutlekSpecs for information on additional options and product specifications. HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 83kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 5-wire 32A/230V Outlets (6) AF525A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 5-wire 32A/230V Outlets (6) AF527A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) AF535A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF538A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 32A/230V Outlets (6) AF537A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 18.6kVA/L6-30P 24A/208V Outlets (20) C13 (6) AF538A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) AF538A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L55-30P 24A/208V Outlets (6) AF537A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 18.4kV		D9N56A
C19/Vertical INTL PDU HP Environmental Sensor for Remote Monitored and Managed PDUs R2D53A NOTE: Please see the HPE Metered Power Distribution Units (PDU) QuickSpecs for information on additional options and product specifications. HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal AF520A NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal AF521A NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) AF522A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) AF901A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 3-wire 32A/230V Outlets (6) AF525A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 5-wire 16A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.8kVA/60309 5-wire 32A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 5-wire 32A/230V Outlets (6) AF535A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF535A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF535A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF535A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) AF535A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 18.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) AF531A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 18.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) AF533A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 18.4kVA/C58365C 40A/208V Outlets (6) AF533A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 18.4kVA/C58365C 40A/208V Outlets (6) AF533A		D9N60A
NOTE: Please see the HPE Metered Power Distribution Units (PDU) QuickSpecs for information on additional options and product specifications. HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4,9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal AF520A NA/JP PDU HPE Intelligent Modular 83kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal AF521A NA/JP PDU HPE Intelligent Modular 3Ph 8,6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17,3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 11kVA/L22-20P 16A/240V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17,3kVA/60309 30A 5-wire 24A/240V (6) AF901A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17,3kVA/60309 5-wire 32A/230V Outlets (6) AF525A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17,3kVA/60309 5-wire 16A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17,3kVA/60309 5-wire 32A/230V Outlets (6) AF527A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17,3kVA/EC 60309 60A 4-wire 48A/208V (12) AF535A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 17,3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF535A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 17,3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF537A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) AF538A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (20) C13 (6) AF531A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 8,6kVA/L15-30P 24A/208V Outlets (20) C13 (6) AF531A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 8,6kVA/L5-30P 24A/208V Outlets (20) C13 (6) AF533A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 14,4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 14,4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal INA/JP PDU HPE Intelligent Modular 7,3kVA/60309 3-wire 32A/230		G9Z08A
For information on additional options and product specifications. HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal AF520A NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal AF521A NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 11kVA/L22-20P 16A/240V Outlets (6) C19/Horizontal AF900A NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) AF901A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 3-wire 32A/230V Outlets (6) AF525A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 12kVA/60309 5-wire 16A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) AF527A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) AF535A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF535A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF538A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 5-wire 32A/230V Outlets (12) AF538A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) AF538A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/6030P 5-wire 32A/230V Outlets (12) AF538A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 12.8kVA/6030P 5-wire 32A/230V Outlets (20) C13 (6) AF538A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) AF533A C19/Horizontal INJP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal INJP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal INJP PDU HPE Intelligent Modular 73kVA/6	HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal AF520A NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal AF521A NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) AF522A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 11kVA/L22-20P 16A/240V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) AF901A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 3-wire 32A/230V Outlets (6) AF525A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 12.8kVA/60309 5-wire 32A/230V Outlets (6) AF527A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) AF535A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF537A C19/Horizontal INAJP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF538A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) AF538A C19/Horizontal INAJP PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (20) C13 (6) AF531A C19/Horizontal INAJP PDU HPE Intelligent Modular 3Ph 18.6kVA/L6-30P 24A/208V Outlets (20) C13 (6) AF531A C19/Horizontal INAJP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal INAJP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF534A C19/Horizontal INAJP PDU Extension Bar G2 Kit HP 5xC13 Intelligent PDU Extension Bar G2 Kit	•	
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) AF522A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) AF523A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) AF901A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 3-wire 32A/230V Outlets (6) AF525A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 12kVA/60309 5-wire 32A/230V Outlets (6) AF526A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) AF535A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) AF537A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) AF537A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) AF538A C19/Horizontal INTL PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (20) C13 (6) AF531A C19/Horizontal INA/JP PDU HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) AF531A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF533A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF534A C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) AF534A C19/Horizontal NA/JP PDU	for information on additional options and product specifications.	
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HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit HP 5xC13 Intelligent PDU Extension Bar G2 Kit AF547A		AF532A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit HP 5xC13 Intelligent PDU Extension Bar G2 Kit AF547A	HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6)	AF533A
HP 5xC13 Intelligent PDU Extension Bar G2 Kit AF547A	HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)	AF534A
		AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar AF528A	HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	

NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs

for information on additional options and product specifications.

HPE Metered and Switched Power Distribution Units (PDU)

TIPL Merered and Switched Power Distribution Online (PDO)	
HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU	H8B48A
HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1) C19/Vertical WW PDU	H8B49A
HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	H8B50A
HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	H8B51A
HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	H8B52A
HPE Metered Switched 3Ph 8.6kVA/L2190-30P 24A/208V Outlets (23) C13 C19 (1) 520R/Vertical NA/JP PDU	H8B53A
HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU	H8B54A
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A

NOTE: Please see the <u>HPE Metered and Switched Power Distribution Units (PDU) QuickSpecs</u> for information on additional options and product specifications.

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

HPE Rack Mount Consoles, KVM Switches, and Keyboards

Rail Kits	
HP 1U Short Friction Rail Kit	775612-B21
HPE Location Discovery Services	
HP Location Discovery Services LCD8500 Kit	TL052A
HPE 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
HPE KVM Switches	
HP 0x1x8 G3 KVM Console Switch	AF651A
HP 0x2x16 G3 KVM Console Switch	AF652A
HP TAA 0x2x16 G3 KVM Console Switch	AF653A
HP USB Remote Access Key for G3 KVM Console Switches	AF650A
HP KVM Console USB Interface Adapter	AF628A

LID 0 2 4/ 10/M C C I - C - 1- I - C 2 1/I - V/ -+ I M - I - C A C C - (I	A F / 10 A
HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
HP 1x4 USB/PS2 KVM Console Switch	AF611A
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
NOTE: To learn more, please visit the HPE KVM Switches web page .	
HPE USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
HPE Other Options	
HP Rack LED Light Kit	BW939A
HP Advanced Power Manager Kit	741192-B21
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP ConvergedSystem Door Branding Kit	TK815A
HP ConvergedSystem Rack Light Kit	TK816A
HP ConvergedSystem Rack Side Panel 1075mm Kit	TK817A

HPE Uninterruptible HPE DirectFlow Three Phase UPS

Power Systems Power Unit (1U UPS)

(UPS)

HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System

HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System

AF478A

HP RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power

System

AF437A

Input/Output Module Options for 1U UPS

HP 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309	AF488A
Input/Output Module HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A
HP 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module	AF490A
HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF491A
HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF492A
HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9Y76A
Power Unit (2U UPS)	
HP R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
HP DirectFlow UPS Management Card	AF493A
Input/Output Module Options for 2U UPS	
HP 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309 Input/Output Module	AF483A
HP 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated Input/Output Module	AF485A
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF486A
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
HP 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
HP 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484A
NOTE: All Input/Output Modules support dual output outlets except the	
AF484A.	
Battery Pack Options	45/004
HP DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
HP DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HP WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System Qu	<u>ickSpecs</u>
for information on additional options and product specifications.	
HPE Tower UPS	
HPE T750 G4 UPS Models	
HP T750 G4 NA/JP Uninterruptible Power System	J2P85A
HP T750 G4 INTL Uninterruptible Power System	J2P88A
HPE T1000 G4 UPS Models	
HP T1000 G4 NA/JP Uninterruptible Power System	J2P86A
HP T1000 G4 INTL Uninterruptible Power System	J2P89A
HPE T1500 G4 UPS Models	
HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A
HP T1500 G4 INTL Uninterruptible Power System	J2P90A

J2R00A

Additional Options

HPE USB and SD

HPE Care Pack

Services

Options

HPE Rack-mountable UPS
HPE R/T2200 G4 UPS Models

HPE R/T3000 G4 UPS Models

HP R/T2200 G4 NA/JP Uninterruptible Power System

TIPE R/ 15000 04 OPS 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
HPE 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: Please see the HPE Line Interactive Single Phase UPS QuickSpecs	
for information on additional options and product specifications.	
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems	(UPS) web page
HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21
HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
The Dual GOD filler phase Middline GOD Kill	741277 021
Installation & Start-up Services	
HPE Installation ML/DL Series 10 Service	
HPE Startup ML/DL Series 10 Service	117\1/755
	U7WZ5E
Foundation Care HDE 3 year Foundation Care Next business day DL 20 Con0 Service	U7WZ5E U7WZ7E
HPE 3 year Foundation Care Next business day DL20 Gen9 Service	U7WZ7E
LIDE 7 year Foundation Care Next hypiness day with DNAD DL 20 Care Continu	U7WZ7E H1AH3E
HPE 3 year Foundation Care Next business day with DMR DL20 Gen9 Service	U7WZ7E H1AH3E H1AH4E
HPE 3 year Foundation Care 24x7 DL20 Gen9 Service	U7WZ7E H1AH3E H1AH4E H1AH9E
HPE 3 year Foundation Care 24x7 DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR DL20 Gen9 Service	U7WZ7E H1AH3E H1AH4E H1AH9E H1AJ0E
HPE 3 year Foundation Care 24x7 DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR DL20 Gen9 Service	U7WZ7E H1AH3E H1AH4E H1AH9E H1AJ0E H1AP0E
HPE 3 year Foundation Care 24x7 DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR DL20 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR DL20 Gen9 Service	U7WZ7E H1AH3E H1AH4E H1AH9E H1AJ0E
HPE 3 year Foundation Care 24x7 DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR DL20 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR DL20 Gen9 Service Proactive Care	U7WZ7E H1AH3E H1AH4E H1AH9E H1AJ0E H1AP0E H1AN7E
HPE 3 year Foundation Care 24x7 DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with DMR DL20 Gen9 Service HPE 3 year Foundation Care 24x7 with CDMR DL20 Gen9 Service HPE 3 year Foundation Care Next business day with CDMR DL20 Gen9 Service	U7WZ7E H1AH3E H1AH4E H1AH9E H1AJ0E H1AP0E

HPE 3 year Proactive Care 24x7 with DMR DL20 Gen9 Service

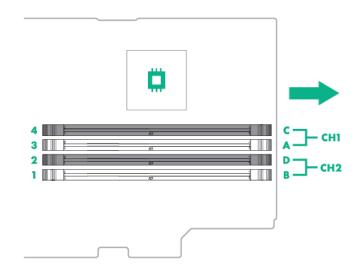
HPE 3 year Proactive Care 24x7 with CDMR DL20 Gen9 Service

H1AP1E

Memory

HPE Standard Memory UDIMMs has passed the rigorous Hewlett Packard Enterprise qualification and testing processes. The memory subsystem in this server supports UDIMMs. The server supports single-rank and dual-rank DDR4 UDIMMs operating at up to 2133 MHz DIMM speeds.

Memory Population guidelines The server supports two channels per processor with two DIMMs per channel for a total of four DIMMs per DL20 Gen9 Server.



General Memory Population Rules and Guidelines:

- . Only UDIMMs are supported on DL20 Gen9. No support for RDIMMs and LRDIMMs
- . All the channels in a system run at the fastest common frequency
- . Mixing ECC and non-ECC UDIMMs on the platform are not supported
- . Both single DIMM per channel and dual DIMMs per channel are supported at 2133MHz

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E3-1200v5 Series Processor Family

Memory Bandwidth and Capacity					
[DIMM Type]	Unbuffered with ECC DIMMs (UDIMMs)				
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	
DIMM Capacity	4GB	8GB	8GB	16GB	
DIMM Native Speed (MT/s)	2133	2133	2133	2133	
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	

Memory

4 slot servers	4	4	4	4
MAXIMUM CAPA	CITY (GB)			
	16	32	32	64
POPULATED DIM	IM SPEED ((MT/s)		
1 DIMM Per Channel	2133	2133	2133	2133
2 DIMM Per Channel	2133	2133	2133	2133
3 DIMM Per Channel				

DIMM slot and configuration diagram

DIMM slot and configuration diagrams UDIMM maximum configuration (1 CPU model)

• Population order; start with "A" first, "B" second, "C" third, etc.

		CPU 1
	Slot #	population order
Chnl 2	1	В
	2	D
		<u> </u>
		CPU 1
	Slot #	CPU 1
Chnl 1	Slot #	T

Memory Speed by Processor Model

Processor Models	Supported Memory Speeds
i3-6100, i3-6300, G4500, G4400, E3-1220v5, E3-	2133MHz
1225v5, E3-1230v5, E3-1240v5, E3-1270v5, E3-	
1280v5, E3-1260Lv5, E3-1240Lv5	

Standard and Maximum Memory Capacity (Preconfigured Models)

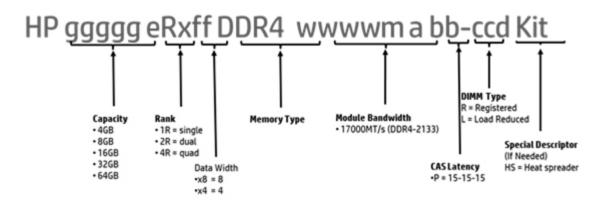
Pre Configured Models	Standard Memory	Optional Memory	Standard Memory Replaced with Optional Memory
G4400	4GB (1x4GB)	52GB (3x16GB, 1x4GB)	64GB (4x16GB)
E3-1220v5, E3-1240v5	8GB (1x8GB)	56GB (3x16GB, 1x8GB)	64GB (4x16GB)

DDR4 memory options part number decoder

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

Memory

- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB



Storage



4 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays



2 x LFF SATA/SAS/SSD Hot Pluggable and Non hot Pluggable Hard Drives Bays



 $2 \times LFF SATA Non hot Pluggable Hard Drives Bays$

System Unit Dimensions 4 SFF - 1.70 x 17.11 x 15.05 inches (4.32 x 43.46 x 38.22 cm)

(H x W x D) 2 LFF - 1.70 x 17.11 x 15.05 inches (4.32 x 43.46 x 38.22 cm)

NOTE: Depth of the chassis from rear to bezel is 15.5".

Weight Non hot Plug 2 17.37lb (7.88kg)

(approximate) LFF fully loaded

(all hard drives, power supplies, and processors installed)

Hot Plug 2LFF fully 17.41lb (7.9kg)

loaded

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

4 SFF Fully loaded 19.18lb (8.7kg)

290W Non-hot Plug Power Supply

Input Range Input 100 to 240 VAC

Requirements Voltage

Rated Input 5.5 A max (at 100 VAC)

Current

Rated Input 50 to 60 Hz

Frequency

Rated Input 550 W (at 100 VAC)

Power

BTU Rating Maximum 1130 BTU per hr (at 115 VAC)

1126 BTU per hr (at 230 VAC)

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

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

www.hp.com/go/hppoweradvisor - Click on the system of interest. Example: DL20

Gen9- Follow the instructions of the next screens.

Power Supply Rated Steady- 290 W Max
Output State Power

Maximum Peak 366 W within 10 seconds

Power

900W Redundant Power Supply

InputRated Input100 to 127 VACRequirementsVoltage200 to 240VAC

Rated Input 50 to 60 Hz

Frequency

Rated Input 6.3 A at 100 V AC
Current 4.9 A at 200 V AC
Maximum rated 619 W at 100 VAC
input power 976 W at 200 VAC

BTUs per hour 2112 at 100 VAC non redundant 3329 at 200 VAC

Power Specifications To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: www.hp.com/go/proliant-energy-efficient or www.hp.com/qo/hppoweradvisor - Click on the system of interest. Example: DL20

Gen9- Follow the instructions of the next screens.

Power Supply Output

Rated Steady-550 W at 100 VAC to 127 VAC input State Power 900 W at 200 VAC to 240 VAC input Maximum Peak 550 W at 100 VAC to 127 VAC input Power 900 W at 200 VAC to 240 VAC input

System Inlet Temperature Standard 10° to 35°C (50° to 95°F) at sea level with an altitude derating

Operating Support of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a

fan fault or above 30°C (86°F).

Extended Ambient 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:

http://www.hp.com/go/proliant/ashrae

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

NOTE: Supports A3 extended ambient.

Non-operating

Operating

-30°C to 65°C (-22°F to 149°F)

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

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

humidity.

(non-condensing) Non-operating

5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet

bulb temperature

Altitude Operating 3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change

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

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

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 3.7 B

Base 3.8 B

Performance 3.4B

L pAm Entry 20.0 dBA

Base 20.0 dBA

Performance 18.0 dBA

Operating

L WAd Entry 3.7 B

Base 4.7 B

Performance 5.6 B

L pAm Entry 20.0 dBA

Base 30.0 dBA

Performance 34.0 dBA

Emissions Classification FCC Rating

Class A

Normative (EMC) Standards

CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN

60950-1; IEC 60950-1

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

HPE Dynamic Smart Array B140i links **Controller**

Number of PCI

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

No

support

Drives Up to 10 Internal Drives

supported (max)

RAID support

0, 1, 10, 5 SATA

Software

HPE SSA, SMH, SIM

management

Warranty

Server warranty

HPE Secure

Not Supported

Encryption

license

HPE SmartCache Not Supported

License

HPE Smart

Supported

Storage

Administrator

HPE Ethernet 1Gb Network 2-port 332i

Adapter

Interface

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

Compatibility

IEEE 802.3 10Base-T

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

Energy Efficient Ethernet (EEE) compliant with IEEE Std 802.3az (default

is disabled)

Data Transfer

Method

PCI Express, two lanes (x2)

Controller

BCM5720

Network

10Base-T (Half-

Transfer Rate Duplex) 10 Mb/s per port, 20 Mb/s Combined

10Base-T (Full-

Duplex) 20 Mb/s per port, 40 Mb/s Combined

100Base-TX (Half-

100 Mb/s per port, 200 Mb/s Combined Duplex)

100Base-TX (Full-

Duplex) 200 Mb/s per port, 400 Mb/s Combined

1000Base-TX

(Half-Duplex) 1000Mb/s per port, 2000 Mb/s Combined

1000Base-TX

2000Mb/s per port, 4000 Mb/s Combined (Full-Duplex)

RJ-45 Connector

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- End-of-life friendly Products and Approach

Management and Recycling

Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise 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 Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise 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 Enterprise web site at: http://www.hp.com/go/green. These instructions may be used by

recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
08-Apr-2016	From Version 5 to 6	Changed	HPE Processors section was revised.
31-Mar-2016	From Version 4 to 5	Added	Added new HPE Non-hot Plug Entry drives and Hot plug standard drives. Added new 8Gb and 16Gb Fiber Channel HBA support. Added new TPM 2.0 security module.
		Changed	Maximum Internal Storage, Graphics, Embedded Management, Security, Service and Support, Preconfigured Models, Power Supplies, and Storage Options sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 3 to 4	Added	
		Changed	
12-Jan-2016	From Version 2 to 3	Changed	Upgradeability and HPE Power Supplies were revised.
17-Dec-2015	From Version 1 to 2	Added	Smart Buy models were added to the NA version.
		Changed	Power Supply, Upgradeability, and Technical Specifications were revised.







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

c04834947 - 15474 - Worldwide - V6 - 8-April-2016

