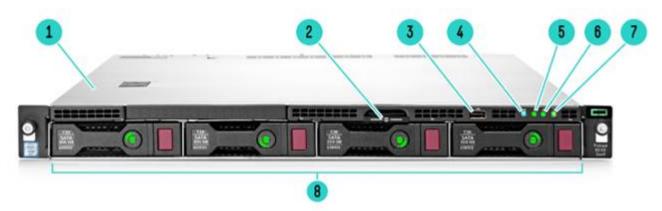
Overview

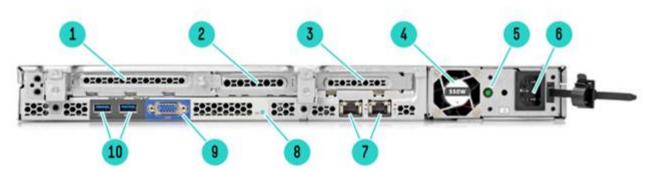
HPE ProLiant DL120 Generation9 (Gen9)

The HPE ProLiant DL120 Gen9, an enterprise class design packed in a dense 1U/1-socket form factor, powered by an Intel® Xeon® E5-2600 v3/v4 series processor. Offering a combination of performance, redundancy, expandability as compared to the traditional 1P servers making the DL120 Gen9 ideal for the growing needs of virtualization and general purpose workloads.



Front View

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



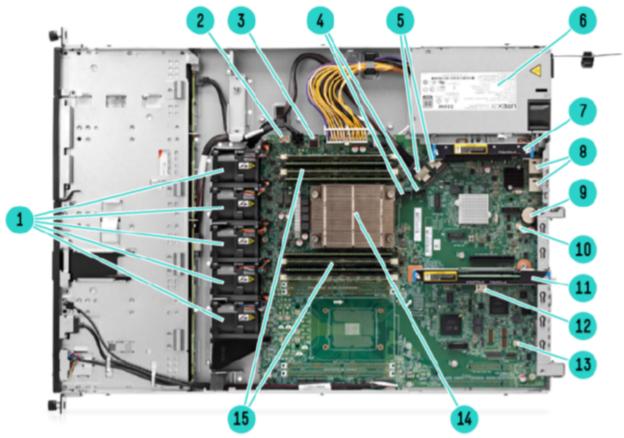
Rear view

- 1 Slot 3 PCle3 x8 (8, 4, 1) NOTE: Slot 3 supports PCle x16 (16, 8, 4, 1) if the GPU riser cage is installed.
- 3 Slot 1 PCle3 x16 (16, 8, 4, 1)
- 5 Power supply power LED
- 7 Embedded 2x1GbE network adapter
- 9 Video connector

- 2 Slot 2 PCle3 x8 (8, 4, 1)
- 4 Non-hot-plug power supply
- 6 Power supply power connection
- 8 UID LED
- 10 USB 3.0 connectors



Overview



Internal View

- 1 Hot swappable fans (up to 5)
- 3 Internal USB 3.0
- 5 Mini-SAS connectors
- 7 Primary PCIe riser board connector
- 9 System Battery
- 11 Secondary PCIe riser slot
- 13 Storage backup power connector for PCle slot 3
- 15 DDR4 DIMM slots (up to 8)

What's New

- New Intel E5-2600v4 processors supporting up to 22c processors and E5-1600v4 higher frequency processor support on DL120 Gen9
- HPE DDR4 2400 MHz Memory modules
- New 900W AC/ 240VDC power supply

- 2 HPE Smart Storage Battery connector
- 4 SATA connector
- 6 Power supply bay
- 8 Embedded 2x1GbE network adapter
- 10 Storage backup power connector for PCIe slots 1-2
- 12 MicroSD slot
- 14 Processor heat sink (processor with HPE Smart Socket placed below heat sink)



Standard Features

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

Processor One of the following depending on model

Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
E5-2699v3	2.3GHz	18	45MB	145W	9.6GT/s	2133
E5-2698v3	2.3GHz	16	40MB	135W	9.6GT/s	2133
E5-2695v3	2.3GHz	14	35MB	120W	9.6GT/s	2133
E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
E5-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
E5-2630v3	2.4GHz	8	20MB	85W	8.0GT/s	1866
E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
E5-1650v3	3.5GHz	6	15MB	140W	0.0GT/s	2133
E5-1620v3	3.5GHz	4	10MB	140W	0.0GT/s	2133
E5-2699v4	2.2GHz	22	55MB	145W	9.6GT/s	2400
E5-2698v4	2.2GHz	20	50MB	135W	9.6GT/s	2400
E5-2695v4	2.1GHz	18	45MB	120W	9.6GT/s	2400
E5-2660v4	2.0GHz	14	35MB	105W	9.6GT/s	2400
E5-2650v4	2.2GHz	12	30MB	105W	9.6GT/s	2400
E5-2650Lv4	1.7GHz	14	35MB	65W	9.6GT/s	2400
E5-2640v4	2.4GHz	10	25MB	90W	8.0GT/s	2133
E5-2630v4	2.2GHz	10	25MB	85W	8.0GT/s	2133
E5-2630Lv4	1.8GHz	10	25MB	55W	8.0GT/s	2133
E5-2623v4	2.6GHz	4	10MB	85W	8.0GT/s	2133
E5-2620v4	2.1GHz	8	20MB	85W	8.0GT/s	2133
E5-2609v4	1.7GHz	8	20MB	85W	6.4GT/s	1866
E5-2603v4	1.7GHz	6	15MB	85W	6.4GT/s	1866
E5-1650v4	3.6GHz	6	15MB	140W	0.0GT/s	2400
E5-1620v4	3.5GHz	4	10MB	140W	0.0GT/s	2400

Chipset
One of the

Intel® C610 Series Chipset

following depending on model Intel® E5-2600v3 Processor Family Intel® E5-2600v4 Processor Family

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

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

On System Management Chipset HPE iLO (Firmware HPE iLO4 2.0 or later) 2GB NAND NOTE: Read and learn more in the iLO QuickSpecs.



Stand	امحما		
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Memory Type:

One of the

HPE SmartMemory

following

depending on model

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM) **DIMM Slots Available** (8 DIMM slots per processor, 4 channels per

processor, 2 DIMMs per channel)

Maximum Capacity

256GB (8 x 32GB RDIMM @2133MHz)

(LRDIMM)

Maximum Capacity

256GB (8 x 32GB LRDIMM @2400MHz)

(RDIMM)

Online spare

Memory Protection One of the Advanced ECC Advanced ECC uses single device data correction to detect

and correct single and all multibit error that occurs within a

single DRAM chip.

following depending on model

Memory online spare mode detects a rank that is degrading

and switches operation to the spare rank.

Network Controller HPE Ethernet 1Gb 2-port Adapter

The HPE ProLiant DL120 Gen9 server offers the customer a dual-port NIC standard

with the option to upgrade with a variety of networking options.

Expansion Slots

CPU PCIe riser **Expansion Technology** Bus Connector Bus Form Factor Notes

slots Slots #

Width Width Number 1 PCle 3.0 x16 x16 Low profile

NOTE: Bus Width data indicates the number of physical electrical lanes running to the

connector.

Expansion Technology FlexibleLOM Bus Connector Bus Device Form Factor Notes riser slots Slots # Width Width Number Number

(Option 1) 2 PCle 3.0 8x 8x Low profile

3 Flexible **8**x **8**x Flexible LOM can only be LOM used for

FlexibleLOMs Notes

CPU riser **Expansion Technology** Bus Connector Bus Device Form Factor Slots # PCIe slots Width Width Number Number (Option 2)

2 PCIe 3.0 8x 8x Low profile 3 Full-height, PCIe 3.0 8x 8x

half-length slot

GPU riser Form Factor **Expansion Technology** Bus Connector Bus Device Notes (Option 3) Slots # Width Width Number Number

3 PCIe 3.0 x16 x16 Full-height, **GPU**

full-length slot

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

NOTE: B140i provides support for up to 8 SATA drives and supports RAID 0, 1, 1+0 & 5. NOTE: H240 provides support for up to 8 SAS/SATA drives and supports RAID 0, 1,

1+0 & 5.

depending on model



One of the

following

Standard Features

Internal Storage Optical Drives **Devices** One of the

following depending on model

Hard Drives

None ship standard Hard Drive Bays

8 SFF drive bays total with Optical Bay 4 LFF drive bays total with Optical bay

Optional: DVD-ROM, DVD-RW

NOTE: HPE ProLiant DL120 Gen9 server offers both SFF and LFF versions in CTO. The Optical Drive bay is available with

both models.

NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need

additional hard drive blanks, they can order more using either P/N 666987-B21: HPE SFF Gen9 Hard Drive Blank Kit or P/N 666986-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		CAPACITY	CONFIGURATION
Internal Storage	Hot Plug SFF SAS	16.0TB	8x2TB
One of the	Hot Plug SFF SATA	16.0TB	8x2TB
following	Hot Plug LFF SAS	32.0TB	4x8TB
depending on	Hot Plug LFF SATA	32.0TB	4x8TB
model	Hot Plug SFF SAS SSD	30.72TB	8x3.84TB
	Hot Plug SFF SATA SSD	30.72TB	8x3.84TB
	Hot Plug LFF SATA SSD	15.36TB	4x3.84TB

Power Supply One of the following depending on model

HPE 550W FIO Power Supply

HPE 900W Redundant Power Supply

Looking for high-efficiency power solutions at an entry-level price for your ProLiant Gen9 Essential Server? HPE Entry-Level Power Supplies offer an optimized set of features with options for both redundant and non-redundant power configurations.

The HPE 550W FIO Power Supply offers Silver-certified 80 Plus power efficiency (up to 89%) with an optimized set of features for non-redundant power configurations.

The HPE 900W AC 240VDC 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. Hot-plug AC power input modules allow for better serviceability with fast and easy deployment and replacement.

System Fans One of the following depending on model

Non-redundant Redundant 5 fans 1P model 3 fans

NOTE: Redundant fan option kit (P/N: 765513-B21) can be bought separately if redundancy is required with configurations.

NOTE: Fan redundancy is not supported for processors exceeding 105W.



Standard Features

Interfaces Video 1 (Vaux Support)

USB 4 USB ports (standard)

Front: 1xUSB 2.0 std 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.

LOM Network Ports 2x1GbE ports

Operating <u>Microsoft Windows Server</u>

Systems and Red Hat Enterprise Linux (RHEL)
Virtualization SUSE Linux Enterprise Server (SLES)

Software VMware

Support for NOTE: For more information on Hewlett Packard Enterprise Certified and Supported

ProLiant Servers 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/hpsc/swd/public/readIndex?sp4ts.oid=7481828

Upgradeability FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options

One of the following

Up to 8 SFF Hard Drive Bays; or 4 LFF Hard Drive Bays

Up to 8 DIMM slots

depending on Redundant Power Supply

model Optical Drive Bay (8 SFF/4 LFF)

Industry ACPI 2.0b Compliant Standard PCIe 3.0 Compliant Compliance 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 G200eH2 video standard

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



Standard Features

HPE Server UEFI/Legacy ROM Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability 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
One of the
following
depending on
model

1U Rack form factor 8SFF and 4LFF version:

1.69" (4.29cm) Height x 17.11" (43.46cm) Width x 23.9" (60.7cm) Length

Embedded
Management

HPE
Integrated
Lights-Out
(HPE iLO)

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.

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 Remote Support The Hewlett Packard Enterprise embedded remote support, when used with 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.



Standard Features

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 HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with

Manager (HPE basic support for non-HPE servers.

SIM)

HPE SIM also integrates with Smart Update Manager to provide

quick and seamless firmware updates. Learn more at

http://www.hpe.com/servers/hpsim.

Kit and Windows PowerShell

Scripting Tool 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.

RESTful Interface Tool

RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale.

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

HPE ILO Mobile Application Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile

devices. For additional information please visit:

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

HPE Insight 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 2.0 UEFI



Standard Features

Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE 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 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HPE 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, Emailbased 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.

Infrastructure

Rack and Power 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.

High Performance Clusters

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.

Optional Features

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

Storage software that gets the job done:

- Data Protection and Recovery Software
 Whether you're a large enterprise or a smaller business, Hewlett Packard
 Enterprise data protection and recovery software will cost-effectively protect you
 against disaster and ensure business continuity.
- Data Archive and Migration Software
 Hewlett Packard Enterprise storage software enables you to comply with data
 retention and retrieval requirements, improve application performance, and
 reduce costs by efficiently migrating infrequently accessed or less valuable data to
 lower cost storage.
- Storage Resource Management Software (SRM)
 Hewlett Packard Enterprise storage resource management software reduces
 operational costs and provides the command and control foundation you need to
 efficiently manage and visualize your physical and virtual environments.
- Data Replication Software
 Hewlett Packard Enterprise offers array-based and host-based replication
 software for use in disaster recovery, testing, application development and
 reporting.
- Storage Device Management Software
 Maximize your investment in Hewlett Packard Enterprise storage and networking
 with software that enables hardware-specific configuration, performance tuning
 and connectivity management.
- HPE StoreVirtual VSA With HPE StoreVirtual VSA you can use the power of virtualization to create a virtual array within your host server. Manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. HPE ProLiant Gen9 servers include a 3-year limited license for HPE StoreVirtual VSA software with 1TB of capacity at no extra cost. Simply select to install HPE StoreVirtual VSA software during server setup within Intelligent Provisioning. More information, instructional videos, and free console management software are available at http://www.hp.com/go/vsa1TB.

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



Optional Features

One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact 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

Support

Recommended 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://www.hpe.com/h20195/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 HPE servers.

https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

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 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



Service and Support

servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. https://www.hpe.com/h20195/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				
[SKU Number]	830011-B21	833870-B21	777424-B21	777425-B21	
Model Name	HPE ProLiant DL120 Gen9 E5-2603v4 8GB-R B140i 4LFF SATA 550W PS Entry Server	HPE ProLiant DL120 Gen9 E5-2630v4 8GB- R H240 8SFF 550W PS Entry Server	HP ProLiant DL120 Gen9 E5- 2603v3 4GB-R B140i 4LFF 550W PS Entry Server	HP ProLiant DL120 Gen9 E5- 2630v3 8GB-R H240 8SFF 550W PS Entry Server	
Processor	Intel® Xeon® E5- 2603v4	Intel® Xeon® E5- 2630v4	Intel® Xeon® E5- 2603v3	Intel® Xeon® E5- 2630v3	
Number of Processors	One				
Memory	8GB (1x8GB Registered DIMMs, 2400 MHz)		4GB (1x4GB Registered DIMMs, 2133 MHz)	8GB (1x8GB Registered DIMMs, 2133 MHz)	
Network Controller	HPE E	mbedded Dual Port 361i A	dapter Network Interf	ace	
Storage Controller	HPE Dynamic Smart Array B140i	HPE H240 Smart Host Bus Adapter	HPE Dynamic Smart Array B140i	HPE H240 Smart Host Bus Adapter	
Hard Drive		None ship sta	indard		
Internal Storage	4 LFF HDD Bays	8 SFF HDD Bays	4 LFF HDD Bays	8 SFF HDD Bays	
Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)				
PCI-Express Slots	1 PCIe LP standard/up to 3 PCIe slots (optional)				
Power Supply		(1) HPE 550W FIO F	ower Supply		
Fans		3 hot swap fans, no	n-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 Easy Install Rails			
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.				

Country Code xx1 = B21 Worldwide Key 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 an HPE approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

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

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

[Chassis]	HP ProLiant DL120	HP ProLiant DL120	HP ProLiant DL120		
	Gen9 8SFF Configure-	Gen9 4LFF Configure-	Gen9 Non-hot Plug		
	to-order Server	to-order Server	4LFF Configure-to-		
			order Server		
SKU Number	777426-B21	777427-B21	777428-B21		
Processor	1	1	1		
DIMM Slots	8 DIMM slots for RDIMM, LRDIMM DDR4 Memory				
Storage	HF	PE Dynamic Smart Array B	140i		
Controller					
PCIe	1 PCle LP	1 PCle LP standard/up to 3 PCle slots (optional)			
Drive Cage	8SFF Hot Plug	4LFF Hot Plug 4LFF Non Hot Plug			
Network	HPE Embedded Dual Port 361i Adapter Network Interface				
Controller		•			
Fans	3 hot swap fans, non-redundant				
Management	iLO Management	iLO Management (standard), Intelligent Provisioning (standard)			
USB	1 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)



Configuration Information - Factory Integrated Models

HPE Processors Select one processor from Core options-Processor section below, **DL120**

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

HPE Memory

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

- UDIMM, RDIMM, and LRDIMM are all distinct memory technologies and cannot be mixed within a server.
- HPE memory options from previous generation servers are not qualified or warranted with Hewlett Packard Enterprise Gen9 systems. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9.
- If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available.
- Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: http://www.hp.com/go/ddr4config.

100 series servers

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

- Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the 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.
- By RPS Enablement Kit power options, mixing of power supplies in the same RPS enablement kit is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

Step 3: Choose Additional Factory Integratable Options

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



Configuration Information - Factory Integrated Models

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,

- 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 Options DL120

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

- 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 Cooling Options

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

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

HPE Rail Kits

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

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

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



Core Options

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

HPE Unique Options	HP DL60/120 Gen9 FlexibleLOM Riser Kit HP DL60/80/120 Gen9 4LFF Cable FIO Kit HP DL120 Gen9 8SFF Smart Array B140i Cable FIO Kit HP AHCI-Enable FIO Setting NOTE: This needs to be selected when Advanced Host Controller Interface mode is required on B140i controller.	765509-B21 777331-B21 777415-B21 801845-B21
HPE Processo	orsEntry Processors - E5-2600v4 series Processors	
	HPE DL120 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-	803116-L21
	core/20MB/85W) FIO Processor Kit HPE DL120 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-	803117-L21
	core/10MB/85W) FIO Processor Kit	000117-L21
	HPE DL120 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-	803118-L21
	core/20MB/85W) FIO Processor Kit	
	HPE DL120 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-	803119-L21
	core/15MB/85W) FIO Processor Kit	002420 24
	HPE DL120 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit	803120-L21
	HPE DL120 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-	803121-L21
	core/25MB/55W) FIO Processor Kit	
	Entry Processors - E5-2600v3 series Processors	
	HP DL120 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-	764005-L21
	core/15MB/85W) FIO Processor Kit HP DL120 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-	764007-L21
	core/15MB/85W) FIO Processor Kit	704007 621
	Entry Processors - E5-1600v3 series Processors	
	HP DL120 Gen9 Intel® Xeon® E5-1650v3 (3.5GHz/6-	783968-L21
	core/15MB/140W) FIO Processor Kit	702000 1 04
	HP DL120 Gen9 Intel® Xeon® E5-1620v3 (3.5GHz/4-core/10MB/140W) FIO Processor Kit	783969-L21
	Entry Processors - E5-1600v4 series Processors	
	HPE DL120 Gen9 Intel® Xeon® E5-1620v4 (3.5GHz/4-	803133-L21
	core/10MB/140W) Processor Kit	
	HPE DL120 Gen9 Intel® Xeon® E5-1650v4 (3.6GHZ/6-	803135-L21
	core/15MB/140W) Processor Kit Base Processors - E5-2600v3 series Processors	
	HP DL120 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-	764009-L21
	core/15MB/85W) FIO Processor Kit	
	HP DL120 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-	764010-L21
	core/20MB/85W) FIO Processor Kit	
	HP DL120 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-	765566-L21
	core/20MB/90W) FIO Processor Kit HP DL120 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-	765568-L21
	core/20MB/55W) FIO Processor Kit	7 00000-LZ 1
	HP DL120 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-	779926-L21
	core/10MB/105W) FIO Processor Kit	
	Performance Processors - E5-2600v4 series Processors	



Core Options

HPE DL120 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit	803112-L21
HPE DL120 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	803113-L21
HPE DL120 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	803114-L21
HPE DL120 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor Kit	803123-L21
HPE DL120 Gen9 Intel® Xeon® E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Processor Kit	803125-L21
HPE DL120 Gen9 Intel® Xeon® E5-2699v4 (2.2GHz/22-core/55MB/145W) FIO Processor Kit	803127-L21
HPE DL120 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	803115-L21
Performance Processors - E5-2600v3 series Processors HP DL120 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10- core/25MB/105W) FIO Processor Kit	764012-L21
HP DL120 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	764013-L21
HP DL120 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	765567-L21
HP DL120 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit	783972-L21
HP DL120 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit	783973-L21
HP DL120 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit	783974-L21
NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported for to 105W. Please refer to DL120 Gen9 User Guide for more details.	r processors up
Registered DIMMs (RDIMMs) for E5-2600v4 Series HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17	805347-B21
Registered Memory Kit	

HPE Memory

Registered DIMMs (RDIMMs) for E5-2600v4 Series	
HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17	805347-B21
Registered Memory Kit	
HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17	805349-B21
Registered Memory Kit	
HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17	836220-B21
Registered Memory Kit	
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17	805351-B21
Registered Memory Kit	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17	851353-B21
Registered Standard Memory Kit	
Registered DIMMs (RDIMMs) for E5-2600v3 Series	



HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15	803026-B21
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15	726718-B21
HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15	759934-B21
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15	803028-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Registered Memory Kit	805353-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load	726720-B21
HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21
HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726536-B21 726537-B21
SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1 2TB 12G SAS 10K rpm SEF (2.5-inch) SC Enterprise 3vr	781518-B21
Warranty Hard Drive	718162-B21
3yr Warranty Hard Drive	785069-B21
Warranty Hard Drive	
Warranty Hard Drive	652589-B21
·	759212-B21
Warranty Hard Drive	
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr	781516-B21 652583-B21
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr	
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr	652583-B21
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr	652583-B21 759210-B21
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21 759210-B21 652572-B21
	Registered Memory Kit HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Registered Memory Kit Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr



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
HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-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	761477-B21
Hard Drive 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	818365-B21
Warranty Hard Drive 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
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	765255-B21
Warranty Hard Drive 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	765253-B21
Warranty Hard Drive HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty	693687-B21
Hard Drive 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	658079-B21
Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty	657750-B21
Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr	658071-B21
Warranty Hard Drive HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr	819203-B21
Warranty Hard Drive HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr	819201-B21
Warranty Hard Drive HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty	861676-B21
Hard Drive HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty	861678-B21
Hard Drive	
OATA New Hat Divertiff (O.F. in de) Midling (MADL) Deiver	
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 Werrenty Hard Drive	801888-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr	801888-B21 628065-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr	
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr	628065-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr	628065-B21 801886-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr	628065-B21 801886-B21 659339-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Standard 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr	628065-B21 801886-B21 659339-B21 801884-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Standard 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Standard 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline	628065-B21 801886-B21 659339-B21 801884-B21 659337-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	628065-B21 801886-B21 659339-B21 801884-B21 659337-B21 801882-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive 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	628065-B21 801886-B21 659339-B21 801884-B21 659337-B21 801882-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive 6G SATA Hot Plug SFF (2.5-inch) SC 512e Drives	628065-B21 801886-B21 659339-B21 801884-B21 659337-B21 801882-B21 659341-B21



HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 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
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 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718183-B21
12G SAS Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Soli	d State
HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty	816576-B21
Solid State Drive	
HPE 1.92TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816572-B21
HPE 960GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty	816568-B21
Solid State Drive	
HPE 480GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816562-B21
12G SAS Hot Plug SFF (2.5-inch) MU-3 SC SSD	000507 004
HPE 3.2TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid	822567-B21
State Drive	
HPE 1.6TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822563-B21
HPE 800GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid	822559-B21
State Drive	022333-021
HPE 400GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822555-B21
	040404 D04
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	846436-B21
State Drive	0.0.00 22.
12G SAS Hot Plug SFF (2.5-inch) SC Midline 512e Drives	
HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty	765466-B21
Hard Drive	765464 D04
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	748387-B21
3yr Warranty Hard Drive	
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	793671-B21
1yr Warranty Hard Drive HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance	793669-B21
1yr Warranty Hard Drive HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr	793703-B21
Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr	793699-B21
Warranty Hard Drive	
12G SAS Hot Plug SFF (2.5-inch) SC Read/Write Intensive Solid State D HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid	rives 802891-B21
State Drive 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	802578-B21
State Drive HPE 800GB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty	846430-B21
Solid State Drive HPE 1.6TB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty	846432-B21
Solid State Drive 6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Driv	100
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
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-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 (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
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21
HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	757339-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	764929-B21
Value 3yr Wty M1 Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764927-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764925-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764923-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Driv HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	ves 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
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC	691856-B21
Enterprise Mainstream 3yr Wty Solid State Drive HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691860-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 Wty M1 Solid State Drive	764943-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter	764941-B21
ENT Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter	764939-B21
ENT Value 3yr Wty M1 Solid State Drive HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid	804616-B21
State Drive HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid	804628-B21
State Drive HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid	804634-B21
State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid	832417-B21
State Drive 6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	



LID 4000D CO CATA Dand Internative CEE 2.5 in CO 2 in M/h Callid	70044E D04
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	804575-B21
State Drive	
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid	804581-B21
State Drive	
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid	804587-B21
State Drive	004E02 D24
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	804599-B21
State Drive	00.000 52.
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid	804605-B21
State Drive	
6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives	
HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid	817011-B21
State Drive	040005 D04
HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-B21
HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid	816985-B21
State Drive	010000 B21
HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid	816975-B21
State Drive	
HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid	816965-B21
State Drive	
6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives	0.1.0000 0.0.1
HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid	816929-B21
State Drive HP 1.92TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid	816919-B21
State Drive	010919-021
HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid	816909-B21
State Drive	
HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid	816899-B21
State Drive	
HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid	816889-B21
State Drive	040070 D04
HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816879-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	789147-B21
Wty Solid State Drive	
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid	804578-B21
State Drive	
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty	804584-B21
Solid State Drive	004500 004
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	804596-B21
Solid State Drive	50 1000 DZ I
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty	804602-B21
Solid State Drive	
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid	804608-B21
State Drive	



GG SATA Hot Plug LFF (3.5-inch) RI-3 SCC SSD HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 1.92TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 960GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 240GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive GG SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD HP 1.92TB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 240GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers HP 120GB Value Endurance Solid State M.2 Enablement Kit for	816933-B21 816923-B21 816913-B21 816903-B21 816893-B21 816883-B21 817015-B21 816999-B21 816989-B21 816979-B21 816969-B21 777894-B21 788028-B21
HP 120GB Value Endurance Solid State M.2 Enablement Kit for	788028-B21
ProLiant ML/DL Servers HP DL60/120 Gen9 M.2 Cable Kit NOTE: M.2 drives go in PCle slot and use B140i SATA controller. NOTE: 805283-B21 cable kit is a mandatory option required to support M.2 SSDs. Hard Drive Blank Kits	805283-B21
HP Large Form Factor Hard Drive Blank Kit HP Small Form Factor Hard Drive Blank Kit	666986-B21 666987-B21



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HPE Networking	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
	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 Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
	NOTE: A minimum of two Gigabytes (2GB) of server memory is required	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber trans	
	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 560FLR-SFP+ Adapter	665243-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
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
	NOTE: FlexibleLOM riser kit (P/N: 765509-B21) is required when any FlexibleLOM is	
	selected.	
	NOTE: Please see the QuickSpecs for Technical Specifications and add	ditional information:
	http://www.hp.com/go/ProLiantNICs	
HPE InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	NOTE: Please see the HPE InfiniBand Options for HPE ProLiant and Interest Processing Control of the Note of the No	egrity Servers
	QuickSpecs for additional information.	
LIDE VO	LID DI 60/420 Como CDI 14 Dipor Kit	765500 D04
HPE I/O	HP DL60/120 Gen9 CPU1 Riser Kit	765508-B21
Expansion	HP DL60/120 Gen9 FlexibleLOM Riser Kit	765509-B21
Options	HP DL60/120 Gen9 Full Height Half Length PCle Riser Kit	765510-B21
	HP DL120 Gen9 GPU Enablement Kit	779611-B21



Core Options

HPE Power Supplies

HPE Entry-Level Power Supplies HP 550W FIO Power Supply Kit

730941-B21

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: Supports Silver-level efficiency (89%) with a standard C14 inlet connector. No support for HPE Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers.

HPE 900W AC 240VDC Power Input Module FIO Kit

828734-B21

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: RPS Backplane is mandatory to be chosen with this power input module.

HPE 900W AC 240VDC RPS Power Backplane FIO Kit

828735-B21

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: This RPS backplane is mandatory to be chosen along with 900W RPS input module.

HPE 900W AC 240VDC Power Input Module

775595-B21

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

NOTE: RPS Backplane is mandatorily needed with this power input module.

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: This RPS backplane is mandatorily needed with 900W RPS input module.

HPE 900W AC 240VDC Redundant Power Supply Kit

820792-B21

NOTE: This Redundant Power supply kit includes 2 power supply input module and 1 backplane kit.

NOTE: This part number is both factory installed option and filed integrable option.

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: 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.

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

NOTE: Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the 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.



Core Options

HPE Computation HP NVIDIA Quadro K2200 Graphics Accelerator and Graphics HP NVIDIA Quadro K4200 Graphics Accelerator

J0G89A J0G90A

Accelerators

NOTE: 1 GPU supported per Server.

NOTE: Must select 900W power supply when graphics card is selected.

NOTE: 1 GPU Enablement kit 779611-B21 must be selected when adding a GPU option. NOTE: Only the above listed Graphics cards are HPE 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.

HPE Cooling Options

HP DL60/120 Gen9 Redundant Fan Kit

765513-B21

NOTE: Includes two fans and is required to move from non-

redundant to redundant configurations.

NOTE: Fan redundancy is not supported for processors exceeding

105W.

Additional Options

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

HPE Insight HPE Insight Control

Software HPE Insight Control including 1yr 24x7 Technical Support and C6N27A

Updates 1-server LTU

HPE Insight Control including 1yr 24x7 TSU E-LTU

C6N28ABE

HPE Insight Management Media Kit

HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL
C6N31A

C6N36A

bundle Single Server FIO LTU

HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL- C6N36ABE

bundle FIO E-LTU

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.

Embedded	HPE iLO Advanced		
Management	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU	512485-B21	
	HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU	BD505A	
	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE	
	HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU HPE iLO Essentials	E6U64ABE	
	HPE iLO Essentials HPE iLO Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE	
	HPE iLO Essentials including 3yr 24x7 Tech Support and Updates 1-server LTU	BD774A	
	HPE iLO Essentials including 1yr 24x7 Tech Support and Updates 1-server LTU	BD775A	
	HPE iLO Essentials including 1yr 24x7 Technical Support and Updates E-LTU HPE iLO Scale-out	E6U62ABE	
	HPE iLO Scale-Out 3yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD776A	
	HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Tracking LTU	BD777A	
	HPE iLO Scale-Out 1yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD778A	
	HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD778AAE	
	HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Tracking LTU	BD779A	



E5Y34A

787198-B21

745823-B21

488069-B21

QuickSpecs

Additional Options

HPE Converge
Infrastructure
Management
Software

ed HPE OneView Advanced (with HPE iLO Advanced) HPE OneView including 3yr 24x7 Support Physical 1-server LTU

HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU E5Y35AAE HPE OneView for ProLiant DL Server including 3yr 24x7 Support E5Y43A

FIO Bundle Physical 1-server LTU

HPE OneView Advanced (without HPE iLO Advanced)

HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU P8B24A HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity P8B26AAE

E-LTU

HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU P8B31A

HPE OneView Physical Media Kit LTU

E5Y37A HPE Operations Analytics for HPE OneView LTU K8G29A HPE Operations Analytics for HPE OneView E-LTU K8G29AAE HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server P8B25A

LTU

NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge. NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).

NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at:

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

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

HPE Security

HP DL120 Gen9 Thumbscrew Ear FIO Kit HP Trusted Platform Module 2.0 Kit

NOTE: HPE Trusted Platform Module 2.0 Option works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants. NOTE: HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option.

NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM

module.

HP Trusted Platform Module Option

NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version. Compatible server platforms include Gen8 and Gen9 servers.

NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

HP DL120 Gen9 Quick Release Ear FIO Kit 787194-B21 HPE DL120 Gen9 Quick Release Ear FIO Kit 787194-B21 HP 1U Security Bezel Kit 664918-B21

NOTE: Quick Release Ear option kit (P/N 787194-B21) is required for installing security bezel.



777415-B21

QuickSpecs

Additional Options

HPE Storage
Controllers

SAS Controllers

HPE Smart Array Controllers

HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller 820834-B21

NOTE: Includes the HPE Smart Storage Battery.

HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller 726821-B21 HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller 726825-B21 HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS 761872-B21 Controller

NOTE: Includes the HPE Smart Storage Battery.

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 **HPE Cable Options** HP DL60/80/120 Gen9 4LFF Cable FIO Kit 777331-B21 HP DL60/120 Gen9 4LFF Smart Array P440 SAS Cable Kit 777382-B21 HP DL60/120 Gen9 4LFF Smart HBA H240 SAS Cable Kit 777385-B21

HP DL120 Gen9 8SFF Smart Array B140i Cable FIO Kit HP DL120 Gen9 8SFF Smart Array P440 SAS Cable Kit 777418-B21 HP DL120 Gen9 8SFF Smart HBA H240 SAS Cable Kit 777421-B21 NOTE: One of the above cables is required to be selected depending on the

combination of chassis and storage controller. Cable option kit descriptions include the right chassis and storage controllers names.

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

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

Optional Software

HPE SmartCache No Media 24x7 Technical Support 1-server LTU D7S26A HPE SmartCache No Media 24x7 Technical Support Flexible LTU D7S27A HPE SmartCache No Media 24x7 Technical Support E-LTU D7S27AAE

NOTE: HPE SmartCache is supported when one of the supported Smart Array Controllers is installed in the server.

Optional Upgrades

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



Additional Options

HPE Tape Backup NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of Hewlett Packard Enterprise 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

rack mount kit as well.	
Tape Drives	
SAS Rack-Mount Tape Solutions	
HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount	C0L99A
Kit	
HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack	EJ014B
Mount Kit	
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HPE StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HPE StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
HPE StoreEver 1U SAS Rack Mount Kit	AE459B
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External	K2R09A
Fanout 2m Cable	
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External	K2R10A
Fanout 4m Cable	
HPE DAT Autoloader	
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape	C0H19A
Autoloader	
HPE MSL2024 Tape Library	
HPE StoreEver MSL2024 0-drive Tape Library	AK379A
HPE MSL4048 Tape Library	
HPE StoreEver MSL4048 0-drive Tape Library	AK381A
HPE StoreEver MSL6480	6 1
HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A
HPE StoreEver MSL6480 Scalable Base Module	QU625A



Additional Options

HPE Disk	HPE RDX Removable Disk Backup System		
Backup	HP RDX+ 1TB External Backup System	B7B69B	
	HP RDX+ 500GB External Backup System	B7B66B	
	HP RDX 2TB USB3.0 External Disk Backup System	E7X53B	
	HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A	
	HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A	
	HP D3700 Enclosure	QW967A	
	HP D3600 Enclosure	QW968A	
	HP RDX+ External Docking System	C8S07B	
	HPE StoreOnce Backup systems		
	HPE StoreOnce 5100 48TB System	BB915A	
	HPE StoreOnce 3540 24TB System	BB914A	
	HPE StoreOnce 3520 12TB System	BB922A	
	HPE StoreOnce 3100 8TB System	BB913A	
	NOTE: For the complete range of RDX drives and media see: http://www.hp.com/go/rdx .		
	For hardware and software compatibility of Hewlett Packard Enterprise disk backup		

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

HPE Storage Options

NOTE: These adapters are only supported with Windows Server 2012 R2 operating system as of now. Support for other operating systems will follow later.

Emulex Fibre Channel HBAs	
HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
·	AJ762B
HP 82E 8Gb 2-port PCle Fibre Channel Host Bus Adapter	
HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus	C8R38A
Adapter	
HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus	C8R39A
Adapter	
QLogic Fibre Channel HBAs	
HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
HP 82Q 8Gb 2-port PCle Fibre Channel Host Bus Adapter	AJ764A
HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host	QW971A
Bus Adapter	4
HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host	QW972A
Bus Adapter	QVV3121
Converged Network Adapter	
·	E7\/06A
HP StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
HP StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged	N3U51A
Network Adapter	
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged	N3U52A
Network Adapter	
·	



Additional Options			
HPE Disk	Disk Enclosures		
Storage System	E7W30A		
	Bundle 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 D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	M0T59A	
	HP D6000 w/70 6TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 420TB Bundle	M0T57A	
	HP D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	M0T58A	
HPE Data	HPE Advanced Series Racks		
Center 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	11000274	
	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	DWOTOM	
	for information on additional racks options and rack specifications.		



HPE Standard Series Rack

Additional Options

	HPE Standard Series Rack		
	HPE V142 1075mm deep Pallet 100 series Rack	AF046A	
	NOTE: Please see the HPE Standard Series Racks QuickSpecs		
	for information on additional racks options and rack specifications.		
HPE Power	HPE Basic Power Distribution Units (PDU)		
	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal	H5M54A	
(PDUs)	NA/JP PDU	1101010 17 (
(. 200)	HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12)	H5M56A	
	C13/Horizontal WW PDU	7101110071	
	HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical	H5M55A	
	NA/JP PDU		
	HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20)	H5M57A	
	C13/Vertical WW PDU		
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical	H5M58A	
	NA/JP PDU		
	HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20)	H5M68A	
	C13/Vertical INTL PDU		
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18)	H5M61A	
	C13/Vertical NA/JP PDU		
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6)	H5M59A	
	C19/Vertical NA/JP PDU		
	HPE Basic 7.3kVA/60309 3-wire 32A/230V Outlets (24) C13 (6)	H5M70A	
	C19/Vertical INTL PDU	11514004	
	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)	H5M71A	
	C19/Vertical INTL PDU	HOIVIT IA	
	HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13	H5M75A	
	(6) C19/Vertical WW PDU	1101117-07	
	HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13	H5M63A	
	(3) 5-20R/Vertical NA/JP PDU		
	HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3)	H5M64A	
	C19 (3) 5-20R/Vertical NA/JP PDU		
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6)	H5M62A	
	C19/Vertical NA/JP PDU		
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6)	H5M72A	
	C19/Vertical INTL PDU		
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6)	H5M73A	
	C19/Vertical INTL PDU		
	HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6)	H5M67A	
	C19/Vertical NA PDU	050000 D74	
	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)	252663-D74	
	C19/Horizontal NA/JP Core Only PDU	202000-074	
	HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4)	252663-D75	
	C19/Horizontal NA/JP PDU	202000-010	
	HPE Basic Modular 7.3kVA/60309 3-wire 32A/230V Outlets (4)	252663-B33	
	C19/Horizontal INTL Core Only PDU		
	HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4)	252663-B34	
	C19/Horizontal INTL PDU		



Additional Options

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
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpe for information on additional options and product specifications. HPE Metered Power Distribution Units (PDU)	H3X09A ecs
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
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)	D9N49A
C19/Vertical NA PDU HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (32) C13 (4)	D9N50A
C19/Vertical INTL PDU HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13	D9N57A
(3) C19/Vertical INTL PDU HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13	D9N58A
(12) C19/Vertical NA/JP PDU HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V	D9N61A
Outlets (30) C13 (3) C19/Vertical NA/JP PDU HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V	D9N62A
Outlets (12) C13 (12) C19/Vertical NA/JP PDU HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU	D9N54A
(2.7, 3.3 (3) 3.73, 43, 14, 401 1 23	



Additional Options

HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets	D9N59A
(12) C13 (12) C19/Vertical NA/JP PDU HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets	G9Z07A
(12) C13 (12) C19/Vertical NA/JP PDU HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-	D9N63A
203P-HP/Vertical NA PDU HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (30) C13	D9N56A
(3) C19/Vertical INTL PDU HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C13	D9N60A
(12) C19/Vertical INTL PDU	
HPE Metered 3Ph 22kVA/60309 5-wire WT 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	G9Z08A
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the <u>HPE Metered Power Distribution Units (PDU) QuickS</u> for information on additional options and product specifications.	<u>oecs</u>
HPE Intelligent Power Distribution Unit (PDU) HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)	AF520A
C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF521A
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF522A
HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V	AF523A
(6) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 11kVA/L22-20P 16A/240V Outlets (6)	AF900A
C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V	AF901A
(6) C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF525A
HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF526A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF527A
HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire	AF535A
48A/208V (12) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 30A 5-wire	AF537A
24A/240V (12) C19/Horizontal NA/JP PDU HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets	AF538A
(12) C19/Horizontal INTL PDU	
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF531A
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF532A
HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)	AF534A
C19/Horizontal INTL PDU Kit HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickS	<u>oecs</u>



Additional Options

for info	rmation or	additional o	ntions and	product s	pecifications.
	illiation of	i additional o	puons and	product 3	pecifications.

HPE Metered and Switched Power Distribution Units (PDU) HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-	H8B48A
20R /Vertical NA/JP PDU	TIOD40A
HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V	H8B49A
Outlets (7) C13 (1) C19/Vertical WW PDU	
HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13	H8B50A
(4) C19/Vertical NA/JP PDU	
HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20)	H8B51A
C13 (4) C19/Vertical INTL PDU	
HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18)	H8B52A
C13 (6) C19/Vertical NA/JP PDU	
HPE Metered Switched 3Ph 8.6kVA/L2190-30P 24A/208V Outlets	H8B53A
(23) C13 C19 (1) 520R/Vertical NA/JP PDU	
HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets	H8B54A
(21) C13 (3) C19/Vertical INTL PDU	
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets	H8B55A
(12) C13 (12) C19/Vertical NA/JP PDU	
HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V	H8B56A
Outlets (12) C13 (12) C19/Vertical NA/JP PDU	
NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU)

NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU)

QuickSpecs

for information on additional options and product specifications.

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

HPE Rack	HPE Location Discovery Services	
Mount Consoles,	HP Location Discovery Services LCD8500 Kit	TL052A
KVM Switches,	NOTE: Please see the HPE Location Discovery Services	
and Keyboards	QuickSpecs	
•	for information on additional options and product specifications.	
	HPF 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
LIDE IO MAIO. 11 I	

HPE KVM Switches



Additional Options

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
HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC	AF618A
Software	
HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC	AF619A
Software	AIOIJA
	A F000 A
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	AF620A
Software	
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC	AF621A
Software	
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC	AF622A
	AI 022A
Software	
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 Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP Advanced Power Manager Kit	741192-B21
HP ConvergedSystem Door Branding Kit	TK815A
HP ConvergedSystem Rack Light Kit	TK816A
HP ConvergedSystem Rack Side Panel 1075mm Kit	TK817A
HP Apollo 4200 Gen9 FIO Strap Shipping Bracket	822640-B21

HPE Uninterruptible HPE DirectFlow Three Phase UPS



Additional Options

Additional Option	\$	
Power Systems (UPS)	Power Unit (1U UPS) HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
	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	AF488A
	IEC309 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
	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 NOTE: All Input/Output Modules support dual output outlets except the AF484A.	AF484A
	Battery Pack Options HP DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack HP DirectFlow UPS - 3U Rackmount VRLA Battery Pack HP WW DirectFlow Secondary Battery Cable	AF480A AF482A AF497A

QuickSpecs

NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System

for information on additional options and product specifications.

HPE Tower UPS



Additional Options

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	021 0071
HP T1000 G4 NA/JP Uninterruptible Power System	J2P86A
HP T1000 G4 INTL Uninterruptible Power System	J2P89A
HPE T1500 G4 UPS Models	02. 00/1
HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A
HP T1500 G4 INTL Uninterruptible Power System	J2P90A
HPE Rack/Tower UPS	
HPE R/T2200 G4 UPS Models	
HP R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
HPE R/T3000 G4 UPS Models	
HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
HP R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
R1500 G4 Models	
HP R1500 G4 NA Uninterruptible Power System	J2Q99A
HP R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
HP R1500 G4 INTL Uninterruptible Power System	J2R03A
R7000 Uninterruptible Power System (UPS)	
HP R7000 4U 50A High Voltage NA/JP Uninterruptible Power	AF462A
System	
HP R7000 4U IEC-32A High Voltage INTL Uninterruptible Power	AF463A
System Research in the still Research (URO)	
R5000 Uninterruptible Power System (UPS)	A E 400 A
HP R5000 3U L630 High Voltage NA/JP Uninterruptible Power	AF460A
System HP R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power	AF461A
System	AF401A
HPE UPS Options	
HP DirectFlow UPS Management Card	AF493A
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	
on additional options and product specifications.	
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems	(UPS) web
page.	. , —
IPE Enterprise Mainstream Flash Media Kits for Memory Cards	

HPE USB and SD Options

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



Additional Options

HPE Support Services

Installation & Start-up Services
HPE Installation DL320e/DL120 Service
HPE Startup DL320e/DL120 Service
U6F53E

Foundation Care

HPE 3 year Foundation Care 24x7 DL120 Gen9 Service U7VP0E HPE 3 year Foundation Care 24x7 wDMR DL120 Gen9 Service U7VP1E HPE 3 year Foundation Care 24x7 wCDMR DL120 Gen9 Service U7VP2E

Proactive Care

HPE 3 year Proactive Care 24x7 DL120 Gen9 Service U7VR7E HPE 3 year Proactive Care 24x7 with DMR DL120 Gen9 Service U7VR8E HPE 3 year Proactive Care 24x7 with CDMR DL120 Gen9 Service U7VR9E

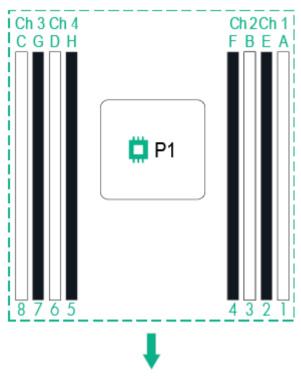
NOTE: For a full list of available support services, please visit

https://ssc.hpe.com/portal/site/ssc/



Memory

Memory Population guidelines



General Memory Population Rules and Guidelines:

- . Place the DIMMs with the highest number of ranks in the white slot when mixing DIMMs of different ranks on the same channel.
- . Do not mix RDIMMs or LRDIMMs.
- . Quad rank RDIMMs are not supported in HPE ProLiant DL120 Gen9 servers.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- . The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors.
- . To realize the performance memory capabilities listed in this document, HPE SmartMemory is required.

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



Memory

Memory Band	dwidth and Ca	pacity					
[DIMM Type]	Registered DIMMs (RDIMMs)					Load Reduced (LRDIMMs)	
HPE SKU P/N	726717-B21	726718-B21	759934-B21	726719-B21	728629-B21	726720-B21	726722-B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133
SLOTS THAT	CAN BE PO	PULATED					
8 slot servers	8	8	8	8	8	8	8
MAXIMUM CA	PACITY (GB)			'			
	32	64	64	128	256	128	256
POPULATED	DIMM SPEE	D (MT/s)					
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133
2 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a	n/a	n/a

NOTE: DL120 has 2 DIMMs per channel and hence 3 DIMMs per channel memory speeds are not applicable on D

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v4 Series Processor Famil

Memory Bandwidth and Capacity					
[DIMM Type]	Registered DIMMs (RDIMMs)		Load Reduced (LRDIMMs)		
HPE SKU P/N	805347- B21	805349- B21	836220- B21	805351- B21	805353- B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank
DIMM Capacity	8GB	16GB	16GB	32GB	32GB
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
DRAM Depth [bit]	1G	1G	2G	2G	2G
DRAM Width [bit]	x8	x4	x4	x4	x4
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb



Memory					
CAS Latency	17-17-	17-17-	17-17-	17-17-	17-17-17
	17	17	17	17	
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400
SLOTS THAT CAN BE POPULATED					
8 slot servers	8	8	8	8	8
MAXIMUM CAPACITY (GB)	I				
	64	128	128	256	256
POPULATED DIMM SPEED (MT/s)	l		l	I	
1 DIMM Per Channel	2400	2400	2400	2400	2400
2 DIMM Per Channel	2133	2133	2133	2133	2400
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a

NOTE: DL120 has 2 DIMMs per channel and hence 3 DIMMs per channel memory speeds are not applicable on D

DIMM slot and configuration diagram

DIMM slot and configuration diagrams
Basic memory slot & population diagram

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

	CPU 1		CPU 2	CPU 2				
	Slot #	population order	Slot population order #					
Chnl 1	1	A1	1					
	2 E2		2					
		CPU 1	CPU 2					
	Slot #	population order	Slot population order #					
Chnl 2	3	B3	3					
	4 F4		4					
		CPU 1	CPU 2					
	Slot population order #		Slot population order #					
Chnl 4	5	H5	5					
	6	D6	6					
		CPU 1	CPU 2					
	Slot #	population order	Slot population order #					
Chnl 3	7	G7	7					
	8	C8	8					



HPE ProLiant DL120 Generation9 (Gen9)

Memory

Memory Speed by Processor Model

Processor Models	Supported Memory Speeds
E5-2603v3, E5-2609v3	1600MHz
E5-2620v3, E5-2630v3, E5-2640v3, E5-2630Lv3, E5-2623v3	1866MHz
E5-1650v3, E5-1620v3, E5-2650v3, E5-2660v3, E5-2650Lv3, E5-2699v3, E5-2698v3, E5-2695v3	2133MHz
E5-2609v4, E5-2603v4	1866MHz
E5-2620v4, E5-2623v4, E5-2630Lv4, E5-2640v4, E5-2630v4	2133MHz
E5-2650Lv4, E5-1620v4, E5-1650v4, E5-2660v4, E5-2650v4, E5-2695v4, E5-2698v4, E5-2699v4	2400MHz

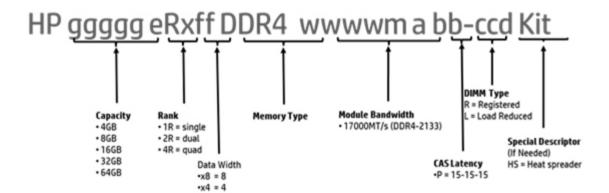
Standard and Maximum Memory Capacity (Preconfigured Models)

Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
E5-2603v4, E5- 2630v4, E5-2630v3	8GB (1x8GB)	232GB (7x32GB, 1x8GB)	256GB (8x32GB)
E5-2603v3	4GB (1x4GB)	228GB (7x32GB, 1x4GB)	256GB (8x32GB)

DDR4 memory options part number decoder

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

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





Storage



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



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



Technical Specifications

System Unit 8 SFF - 1.69 x 17.11 x 23.90 inches (4.29 x 43.46 x 60.76 cm) Dimensions

 $(H \times W \times D)$ 4 LFF - 1.69 x 17.11 x 23.90 inches (4.29 x 43.46 x 60.76 cm)

Weight 37.44 lb (17kg) Maximum:

(approximate) (all hard drives,

power supplies, and processors

installed)

Minimum: 19.82 lb (9kg)

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

Rated Line 100 to 240 VAC Input

Requirements Voltage

Rated Input For 550W Power Supply:

Current 6.7 A (at 100 VAC)

3.3 A (at 100 VAC)

Rated Input 47 to 63 Hz

Frequency

Rated Input For 550 W Power Supply: Power < 670 W (at 100 VAC),

< 660 W (at 200 VAC).

For 550 W Power Supply: **BTU Rating** Maximum

> 2201 BTU/hr (at 100 VAC), 2153 BTU/hr (at 200 VAC)

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

Specifications available via the online tool located at URL:

http://www.hp.com/go/proliant-energy-efficient or

http://www.hp.com/go/hppoweradvisor - Click on the system of interest. Example: DL120 Gen9- Follow the instructions of the next screens.

Power Supply Rated For 550 W Power Supply:

Steady-State 550 W (at 100 VAC), Output Power 550 W (at 200 VAC), For 550 W Power Supply: Maximum

Peak Power 550 W (at 100 VAC),

550 W (at 200 VAC),



Technical Specifications

System Inlet Temperature

Standard Operating Support

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

Extended Ambient Operating Support

For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3048 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/ashrae.

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

NOTE: Supports A3 extended ambient.

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

change is 20°C/hr (36°F/hr).

Relative Humidity Operating

Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or

90% relative humidity.

(noncondensing) Altitude

Nonoperating Operating 5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing. 3048 m (10,000 ft). This value may be limited by the type

and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

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

operating rate is 457.2 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 4.9 B

Base 5.4 B

Entry 33.0 dBA L pAm

Base 35.0 dBA

Operating

L WAd Entry 5.7 B

Base 5.8 B



Technical Specifications

L pAm Entry 38.0 dBA

Base 39.0 dBA

Emissions

ns FCC Rating Class A

Classification Normative (EMC) Standards

Normative CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; Standards 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

Number of PCI Four

links

B140i Controller PCI link rate

4 Gb/s

Storage protocol SATA

support

SAS/SATA peak 6 Gb/s

data transfer rate

Number of 10 links

SAS/SATA links

SAS/SATA 2x4 connectors; 2x1 connectors

connectivity

Expander support No

Drives supported Up to 10 Internal Drives

(max)

RAID support 0, 1, 10, 5 SATA Software 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 Embedded Network Dual Port 361i Interface 10Base-T/100Base-TX/1000Base-TX



Technical Specifications

Adapter Compatibility IEEE 802.3 10Base-T

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

IEEE 802.3az - Energy Efficient Ethernet (EEE)

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

Method

Controller Intel I350 Powerville Network 10Base-T (Half-

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

10Base-T (Full-

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

100Base-TX

(Half-Duplex) 100 Mb/s per port, 400 Mb/s combined

100Base-TX

(Full-Duplex) 200 Mb/s per port, 800 Mb/s combined

1000Base-TX (Half and Full-

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

Two RJ-45 Connector

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

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

TΧ

Environmentand Approach

End-of-life friendly Products Management and Recycling

Hewlett-Packard 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
19-Aug-2016	From Version 14 to 15	Changed	Smart Buy Models section was updated for the NA version only.
7-Jun-2016	From Version 13 to 14	Added	Added new HPE Memory, new HPE Drives offering, and new HPE Disk Backup options.
		Changed	HPE Processors, Upgradeability, and HPE Memory sections were revised.
8-Apr-2016	From Version 12 to 13	Changed	HPE Processors section was revised.
31-Mar-2016	From Version 11 to 12	Added	Added new HPE DDR4 2400 MHz Memory modules, Intel Xeon E5-2600v4 processor support, new HPE Trusted Platform Module (TPM) 2.0, new 900W AC/ 240VDC power supply, new HDD offering.
		Changed	Maximum Internal Storage, Power Supply, Upgradeability, Embedded Management, Service and Support, Pre-configured Models, HPE Security, and Memory sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 10 to 11	Added	New HDD offering was added to HPE Drives.
		Changed	HPE Power Supplies, HPE Disk Backup, HPE Data Center Racks, and HPE Power Distribution Units (PDUs) were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
1-Dec-2015	From Version 9 to 10	Added	New HDD offering was added to HPE Drives.
			New options were added to HPE Security, HPE Tape Backup, HPE Rack Mount Consoles, and KVM Switches, and Keyboards.
		Changed	On System Management Chipset, Maximum Internal Storage, Embedded Management, and Server utilities were revised.
			Product images were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
23-Oct-2015	From Version 8 to 9	Changed	System Fans, HP Cooling Options, and HP Security were revised.
28-Sep-2015	From Version 7 to 8	Added	Added new 6Gb SATA Solid State Drives.
			Added new HPE OneView management software.
		Removed	Obsolete SKUs were removed from the QuickSpecs.

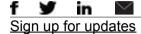


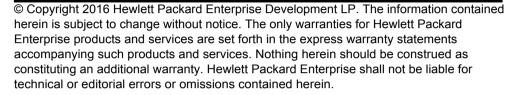
Summary of C	Changes		
17-Aug-2015	From Version 6 to 7	Added	New Solid State Drives offering was added to Core Options.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
1-Jun-2015	From Version 5 to 6	Added	New Hard Drives were added to Core Options.
			New options added to HPE Power Supplies.
			HPE OneView LTUs added to HPE Converged Infrastructure Management Software.
			New RDX+ external backup options were added.
		Changed	Pre-configured Models section was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
24-Apr-2015	From Version 4 to 5	Added	Added 813534-B21 and 813535-B21 to HPE Power Supplies.
16-Apr-2015	From Version 3 to 4	Changed	PCIe slots was changed to "1 PCIe LP standard / up to 3 PCIe slots (optional)" for Entry models and CTO models.
30-Mar-2015	From Version 2 to 3	Added	Added HPE Storage Options to Additional Options.
			Added new Hard Drives to Core Options.
			Added Optional Software to HPE Storage Controllers.
		Changed	HPE Processors, HPE Memory, HPE Hard Drives, HPE Networking, and HPE USB and SD Options were revised.
9-Feb-2015	From Version 1 to 2	Added	Added HPE Insight Software section and Network controller sections.
			Added new HPE Drives, HPE Disk Backup, and new G4 UPS models.
		Changed	HPE Memory, HPE Drives, HPE Tape Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, and HPE Uninterruptible Power Systems (UPS) sections were revised.



Summary of Changes







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

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